

OL-300 USER GUIDE





QL-300 User Guide

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Ownership Information

Congratulations and thank you for your business. Your purchase of a QuickLabel digital label printer is an investment in production flexibility and packaging efficiency. Please record the model number and serial number of your product.

FCC Part 15 Compliance

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RoHS2 Compliance

The QL-300 Label Printer does not contain the substances specified within ANNEX II of "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)", that is, lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) exceeding their specified maximum concentration values tolerated by weight in homogeneous materials, except for the exemptions set in ANNEX III of the Directive and its amendments.

This information is offered in good faith to the best of our knowledge, but is subject to revision as new information becomes available.

California Proposition 65 Warning

This Product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Declaration of Conformity Declaration de Conformité Ubereinstimmungserklärung Dichiarazione di Conformità	
ID	DoC-22834690
Manufacturer's name and address Nom et adresse du fabricant Hersteller Nome del costruttore	AstroNova, Inc. 600 East Greenwich Avenue West Warwick, RI 02893 USA
Brand Name(s) Nom(s) de marque(s) Markenname(n) Nome/i dei marchi	QuickLabel [®]
Model No. Modele No. Model Nr. Modello No.	QL-300, QL-300s
Description of Products Description des produits Produktbeschreibungen Descrizione dei Prodotti	LED Color Printer
Standards to which conformity is declared Standards auquel la conformité appartient Normen für welche Übereinstimmung erklärt wird Norme per le quali si dichiara la conformità	EN 55032:2015 EN 61000-6-1:2007 EN 61000-3-2:2014 EN 61000-3-2:2013 EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 EN 62311:2008 EN 50581:2012 FCC 47CFR Part 15 Subpart B CAN ICES-3(A)/NMB-3(A)
Application of Council Directives Application des Decisions du Conseil Anwendbar fur die Richtlinien Applicazione delle Direttive del Comitato	2014/30/EU 2006/42/EC 2011/65/EU
I, the undersigned, hereby declare that the equipment specified above co Je, Soussigné, déclare que l'équipment spécifié ci-dessus est en conform Ich, der unterzeichnende erkläre hiermit, daß das oben beschriebene Ge II sottoscritto dichiara che l'apparecchio sopra specificato è conforme alle	nité avec la directive et le standard ci-dessus. rät den vorgenannten Richtlinien und Normen entspricht.
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Installation

1

Checking the Product

Open the packing box and confirm its contents.

Printer

Printer



• Print cartridges (One each of yellow, magenta, cyan, black, and white*1)



- *1: QL-300s only
- Power cord

Note: The package does not include a LAN cable, USB cable, or hub. Procure them separately.

Note: The packing box and packing materials are needed to transport the machine. Keep them and do not throw them away.

Unwinder

Unwinder



Mounting screws (x3)



• Cable clamps (x3)



Choosing an Installation Location

For safe and comfortable operations, install the product in a location that satisfies the conditions in the following sections.

- "Precautions Related to Installation" on page 12
- "Choosing an Installation Location" on page 12
- "Installation Space" on page 14

Be sure to read these sections before starting installation work.

Precautions Related to Installation

Warnings

- Do not install the equipment in a location that is near open flame or may become very hot.
- Do not install the equipment in a location prone to chemical reactions (laboratory, etc.).
- Do not install the equipment in a location that is near flammable liquids, such as alcohol or paint thinner.
- Do not install the equipment in a location that is accessible by small children.

- Do not install the equipment in a location that is unstable (on a wobbly table or inclined place).
- Do not install the equipment in direct sunlight or in a very dusty or humid location.
- Do not install the equipment in an environment subject to salt air, NOx, SOx or corrosive gases.
- Do not install the equipment in a location that is subject to excessive vibration.
- Do not install the equipment in a location where the machine's vents are blocked. Check the positions of the vents in the following illustrations.



Cautions

• Do not install the equipment on a thick-piled carpet or rug.

- Do not install the equipment in a location that is poorly ventilated or stuffy.
- Pay attention to ventilation when operating the equipment continuously for a long period in a small room.
- Install the equipment away from sources of strong magnetic or electric noise.
- Install the equipment away from monitors or televisions.
- Remember to use ventilation when printing large volumes or operating the equipment continuously for a long period.

Installation Environment

Consider the following environment conditions when you select the installation location.

Use a location that is within the following ranges for temperature and humidity.

Temperature and Humidity	Specification
Temperature range	10 to 30 ° C
Humidity range	20 to 70% RH (relative humidity)
Maximum wet-bulb temperature	25 ° C

- Be careful that condensation does not form.
- If you install the equipment in a location where the humidity is in a range of less than 30%, use a humidifier or anti-static mat.
- The equipment satisfies the certification standards relevant to emissions for Eco-mark No. 155 printers in regard to dust, ozone, styrene, benzene, TVOC, and dispersion of ultrafine particles. (Testing has been done based on the testing methods in the Blue Angel RAL UZ-171: 2012 appendix S-M as regards to black and white and color printing by using toner in a genuine QuickLabel print cartridge.)

Installation Space

• Select an installation location that is level and can support the weight of the machine (weight of equipment is about 95 lbs (43 kg)* for the printer and about 42 lbs (19 kg) for the unwinder).

* Including the print cartridge and other wear items.

- Install the machine near a power socket. Also, install the equipment so the power socket is within easy reach so the power plug can be pulled out in an emergency.
- Do not place things around the machine.

To install the printer and the unwinder on a stand, the stand must be at least 42 inches (1050 mm) wide and 20 inches (500 mm) deep. If you install the printer and the unwinder on a stand that is too small, they may fall off if they are hanging over the edge of the stand.



Install the equipment according to the equipment installation space shown in the diagrams.

Unpacking

Unpacking Precautions

Cautions

- Be sure to use two people to lift the equipment because it weighs about 95 lbs (43 kg).
- Hold the handles on the equipment when lifting it.
- Do not hold the control panel while lifting. There is a risk of injury if you hold the control panel, because the control panel may come off and you could drop the equipment.
- Place the equipment on the floor to remove the packing materials and the plastic bag.
 There is a risk of dropping the equipment and causing injury if you hold the equipment while working.
- Be careful about handling the plastic bag.
- Dispose of the desiccant appropriately.

Unpacking the Printer

This section describes how to unpack the printer.

Note: The packing box and packing materials are needed to transport the machine. Keep them and do not throw them away.

1. Open the top of the packing box and remove the machine's accessories.



2. Remove the top layer of packing materials.







3. Remove the handles (4 pieces), and then remove the top of the packing box.

4. Open out the bottom part of the box, place your hands on the printer's handles (2 in front/2 in back) and support the printer as you remove the front and back packing materials on the bottom.



5. Cut and remove the bands that secure the printer.



6. Remove the plastic bag.



7. Remove the desiccant.



8. Place the printer in the installation space that you have confirmed in advance.



Allow enough space to work when installing the unwinder.

The weight of the equipment, including wear items, is about 95 lbs (43 kg). Install it on a stand that is strong enough.

9. Grasp the top cover open lever and open the top cover.



10. Remove the Pad-TC from the top of the print cartridge, and then remove the tape that is securing the lift up lever.



11. The print cartridges lift up, so turn the lift up lever to lower the print cartridges.



12. Pull out the sheet-protection.



13. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

Unpacking the Unwinder

This section describes how to unpack the unwinder.

Note: The packing box and packing materials are needed to transport the unwinder. Keep them and do not throw them away.

1. Open the top of the packing box.



2. Remove the top layer of packing materials.



3. Remove the unwinder.



4. Remove the plastic bag from the unwinder, and then remove the accessories.



5. Peel off the tape from two locations.



Installation

Installing Cable Clamps

Cable clamps are provided with the unwinder. Use them to run the cable connected to the printer's interface along the front.



1. Install cable clamps (x 3 pieces).



Installing the Unwinder on the Printer

After unpacking the unwinder, install it to the printer.

Caution: Be careful that you do not drop the unwinder.

Caution: Be careful that you do not pinch your hands or fingers between the unwinder and the printer.

Caution: Securely tighten the three screws. If they are loose, there is a risk that the unwinder may fall off or the print quality may be degraded.

1. Check whether the adjuster on the unwinder is raised up. If the adjuster is not raised, before you mount it on the printer, rotate it to the up position.



2. Hold the unwinder close to the mounting pins and mounting hole, and then press it against the right side of the printer and lower it.



3. Use three screws to secure the unwinder to the printer.

Tighten the screws in order 1, 2, then 3, as shown in the following diagram.



4. Extend the adjuster so it contacts the stand. Be careful not to extend the adjuster too far.

Power

Precautions about the Electric Power

Symbol	Warning		
	Be sure to turn off the power switch before attaching or removing the power cord or ground wire. Leaving the power turned on could result in a fire or electric shock.		
•	Be sure to connect the ground wire to a dedicated ground terminal. Using the equipment without a ground wire connected could result in a fire or electric shock. If you cannot connect to ground, contact the dealer where you bought the equipment.		
\bigcirc	Never connect a ground wire to a water pipe, gas pipe, telephone wire ground, lightning rod, or anything similar. Fire, electric shock, or gas explosion could result.		
0	Always hold the power cord by the plug when you plug or unplug it. Pulling on the power cord could damage the power cord and result in a fire or electric shock.		
0	Plug the power plug securely all the way into the power socket. Not plugging it all the way in could result in a fire or electric shock.		
	Do not plug or unplug the power plug if your hands are wet. Electric shock could result.		
\bigcirc	Do not step on or place objects on the power cord. The cord could be damaged and result in a fire or electric shock.		
\bigcirc	Do not use the power cord while it is tied or bundled up. The cord could overheat, be damaged and result in a fire or electric shock.		
\Diamond	Do not use a damaged power cord. Fire or electric shock could result.		

Symbol	Warning
\bigcirc	Do not plug too many power cords into a single power socket. Fire or electric shock could result.
\bigcirc	Do not connect other electronic products to the same power socket as the machine. The machine may malfunction due to the electronic noise particularly if you connect an air conditioner, copier, shredder, or other device at the same time. If you must connect them to the same power socket, use a commercially available noise filter or noise cut transformer.
\bigcirc	Do not use extension cords. If you use an extension cord, the drop in AC voltage may cause the machine to not operate correctly. If you must use one, use one that is rated for at least 100 V at 15 A. Fire or electric shock could result if you use one that is outside the specified range.
\bigcirc	Do not turn off the power or unplug the power plug while printing. Damage or electric shock could result.
0 =C,	If the equipment will not be used for a long period, such as during an extended holiday or vacation, unplug the power cord to be safe.
0	Use the power cord provided with the machine. Do not use a power cord from a different product. Electric shock or fire could result.
\bigcirc	The power cord provided with the machine is for the machine only. Do not use it for a different product. Electric shock or fire could result.
\bigcirc	Operations are not guaranteed when using a UPS (uninterruptible power source) or inverter. Do not use an uninterruptible power source or inverter. There is a risk of fire.

The following conditions are required for the power source.

Voltage:	110 - 127 VAC (Range 99 - 140 VAC) 220 - 240 VAC (Range 198 - 264 VAC)
Frequency:	50/60 Hz ± 2%

• If the power source is unstable, use a voltage regulator.

- The machine's maximum power consumption is 1200 W. Be sure that the power source has sufficient capacity.
- Operations are not guaranteed when using a UPS (uninterruptible power source) or inverter. Do not use uninterruptible power source or inverters.

Connecting a Power Cord

1. Securely insert the power cord provided into the power connector on the machine.



2. Plug the power plug into the power socket.

Turning on the Power

1. Press and hold the **POWER** button for approximately 1 second.

When the power is turned on, the LED lamp on the **POWER** button turns on.



When the machine starts, the startup screen appears on the LCD on the control panel. After a short time, the idle display appears and printing is possible.

Turning off the Power

1. Press and hold the **POWER** button for approximately 1 second.



The message "Shutting down. Please wait. Printer will turn off automatically." appears on the control panel and the LED lamp on the **POWER** button flashes at one second intervals.

Wait a moment, and the machine's power automatically turns off and the LED lamp on the **POWER** button turns off.

Pressing the **POWER** button for five seconds or longer forces the power to turn off. Do this only if some trouble occurs. See "Troubleshooting" on page 268.

Warning: Do not touch the power plug or power socket if your hands are wet. There is a risk of electric shock.

Warning: Do not insert any metal objects, such as a screw driver, into the power socket. There is a risk of electric shock.

Test Printing

Adjusting Density and Test Printing

- 1. Set a roll of paper on the unwinder. Use continuous paper that is 5.12" (130mm) wide. See "Loading Media" on page 92.
- 2. Press the **POWER** button on the control panel to turn on the printer's power.
- 3. Press the scroll button ▼ several times to select **Calibration**, and then press the **OK** button.



- 4. Press the scroll button ▼ several times to select **Adjust Density**, and then press the **OK** button.
 - Calibration
 1/2 Page

 1 Auto Density Mode
 2

 2 Adjust Density
 3

 3 Adjust Registration
 4

 4 Color Density
 5

 5 Print Color Tuning Pattern
 6

 6 Base Color Tuning
 7

 7
 8 ↑ / ↓ Page
- 5. Check that **Execute** has been selected, and press the **OK** button.

Calibration	Adjust Density	1/1 Page
1 Auto Density	1 Execute	
2 Adjust Densit		
3 Adjust Regist		
4 Color Density		
5 Print Color Tu		
6 Base Color T		
781/JPa	Use Online buttor	to return to s

6. Press the scroll button ▼ several times, and when **Print Information** appears, press the **OK** button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	· · · · · · · · · · · · · · · · · · ·
4 💁 Admin Setup	
5 - Print Statistics	
6 Calibration	
Use Online button to return to	standby screen.

7. Press the scroll button ▼ to select **DEMO Page**, and then press the **OK** button.

Print Information	1/2 Page
1 Configuration	Π
2 Demo Page	
3 File List	
4 Usage Report	
5 Error Log	
6 Color Profile List	
7 8 ↑ / ↓ Page	
8. Check that **DEMO1** has been selected, and press the **OK** button.

Paper feeds and a demo page is printed.

If the paper does not feed well or there are printing issues, confirm that the printer is installed correctly.

Adjusting the Position of the Sensor

You need to adjust the positions of the unwinder's black mark/gap sensors and the printer, according to the media you are using. See "Calibrating the Sensor" on page 104.

Printer Black mark/Gap sensor:



Unwinder Black mark/Gap sensor:



PC Connection

Driver Installation Process Overview

This section describes how to connect the printer to a computer and how to install the printer driver.

Connecting to a PC with a Network Connection

- 1. Turn on the printer.
- 2. Set the printer's IP address.
- 3. Connect the cable.
- 4. Turn on the computer.
- 5. On the computer, set the IP address and configure other settings.
- 6. Install the printer driver.

Connecting to a PC with a USB Connection

- 1. Connect the cable.
- 2. Turn on the printer.
- 3. Turn on the computer.
- 4. Install the printer driver.

Operating Environment

This printer supports the operating systems (OS) listed below.

- Windows 10/Windows 10 (64-bit version)
- Windows 8.1/Windows 8.1 (64-bit version)
- Windows 8/Windows 8 (64-bit version)
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows 7/Windows 7 (64-bit version)
- Windows Server 2008 R2
- Windows Server 2008/Windows Server 2008 (x64 version)

With Windows 10, Windows 8.1 and Windows 8, only the desktop mode is supported.

Connecting Cables

This printer can connect to a computer or a network.

It comes with a LAN (network) interface connector and a USB interface connector as standard. A LAN cable can be used to connect to a network, while a USB cable can be used to connect to a computer.

Connecting a LAN Cable

When the printer is connected to a LAN (Ethernet) or other network, it can be shared by the computers on the network.

This printer is equipped with a network interface compatible with 10BASE-T/100BASE -TX/1000BASE-T as standard.



If the cable is routed in front of the device, use the cable clamps attached to the unwinder. Passing the cable through the clamps avoids problems with unwinder operation.

1. Prepare a LAN cable and hub.

Note: The printer does not come with a LAN cable or hub. If you need a LAN cable (Category 5e or higher, twisted cable, straight) and hub, it is up to you to prepare them.

Note: The initial factory default setting of the Admin Setup is "Gigabit network: Disabled." This setting needs to be changed in order to use a 1000BASE-T connection. Setting Procedure: On the control panel, input your password in **Admin Setup**, and then select **Network Setup > Gigabit Network > Enable**.

2. Connect the LAN cable to the printer's LAN (network) interface connector (1).



3. Connect the other end of the LAN cable to a hub connector (2).



Connecting a USB Cable

Use this connector when connecting the printer to a computer with a USB cable.

Note: Do not connect the USB cable until prompted during the installation process. See "Installing the Printer Driver (USB)" on page 54.

1. Prepare a USB cable.

Note: The printer does not come with a USB cable. You need to prepare a USB 2.0 cable that is no longer than two meters.

Note: If you are planning to connect using the USB 2.0 Hi-Speed mode, you need to prepare a Hi-Speed USB 2.0 cable.

Note: USB 3.0 is not supported.

2. Taking care to orient the connector correctly, connect the square end of the USB cable to the printer (1).



3. Connect the other (flat) end of the USB cable to the computer (2).



Note: Do not plug the USB cable into the printer's LAN (network) interface connector. Doing so can cause malfunction of the printer.

Note: Do not plug or unplug the USB cable while the computer or printer is turned on. Doing so can cause malfunction of the printer.

Network Connection

To connect the printer to a computer over a network connection, you first need to set the printer's IP address. Next, install the printer driver on the computer.

If there is no DHCP server or BOOTP server on the network, you need to manually set IP addresses for the computer and printer.

Fixed IP address settings specified by enterprise network administrators, providers, or router manufacturers must also be set manually.

Network Setup Flow

- 1. Turn on the printer.
- 2. Set the printer's IP address.
- 3. Turn on the computer.
- 4. On the computer, set the IP address and configure other settings.
- 5. Install the printer driver.

Note: A wrong IP address can cause a network to go down and make it impossible to connect to the internet. Check with your enterprise network administrator or internet service provider for the IP address you need to set on the printer, etc.

Note: Servers (DHCP, etc.) existing on a network depend on the network environment. For detailed information, check with your enterprise network administrator, internet service provider, or router manufacturer.

Note: PC administrator privileges are required for the setup.

Setting the Printer's IP Address on the Control Panel

When configuring a small-scale network to connect the printer to a single computer, set an IP address as shown below (RFC1918 compliant).

- Computer
 - IP address: Any address from 192.168.0.1 to 254
 - Subnet mask: 255.255.255.0
 - Default gateway: Not used
 - DNS server: Not used
- Printer
 - IP address specification: Manual 192.168.0.1 to 254 (Use an address different from that of the computer.)
 - Subnet mask: 255.255.255.0
 - Default gateway: 0.0.0.0
 - Network scale: Small

For this example, we show how to configure the settings below.

IP address:	192.168.0.3 (computer) 192.168.0.2 (printer)
Subnet mask:	255.255.255.0
Gateway address:	192.168.0.1

1. Press either the scroll button ▲ or ▼ on the control panel to display the **Functions** screen.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
👍 🖛 Admin Setup	
5 - Print Statistics	
6 Calibration	
Use Online button to return to s	standby screen.

2. Press the scroll button ▼ several times to select Admin Setup, and then press the OK button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 🗲 Admin Setup	
5 - Print Statistics	
6 Calibration	
Use Online button to return to s	tandby screen.

3. Use the numeric keypad to input the administrator password.

The factory default password is 999999. Press the **OK** button after inputting each character.

****	**				
(6	-12 digits)			
	Online bu	tton to r	eturn to	standby	coroon

4. Press the **OK** button.

5. Check that **Network Setup** is selected, and then press the **OK** button.

Admin Setup	1/2 Page	
1 Network Setup		
2 USB Setup		
3 Print Setup		
4 PS Setup	_	
5 PCL Setup		
6 Color Setup		
7 8 ↑ / ↓ Page		

6. Press the scroll button ▼ several times to select **IP Address Set**, and then press the **OK** button.

Network Setup	1/2 Page	
1 TCP/IP	Π	
2 NetBIOS over TCP		
3 IP Address Set		
4 Web		
5 Telnet		
6 FTP		
78 ↑ / ↓ Page		

- 7. Choose whether to set the IP address manually or obtain an IP address automatically.
 - To set the IP address manually, press the scroll button ▼ to select **Manual**, and then press the **OK** button.

Go to step 8.

Network Setup	IP Address Set	1/1 Page
TCP/IP	1 Auto	
2 NetBIOS ove	2 ✔Manual	
3 IP Address S		
4 Web		
5 Telnet		
6 FTP		
781/1Pa	Use Online button	to return to s

• When obtaining an IP address automatically, confirm that **Auto** is selected, and then press the **OK** button.

Go to step 14.

Network Setup	IP Address Set	1/1 Page
1 TCP/IP	1 ✔Auto	
2 NetBIOS ove	2 Manual	
3 IP Address S		
4 Web		
5 Telnet		
6 FTP		
781/JPa	Use Online button t	to return to s

- 8. Press the scroll button ▼ several times to select **IPv4 Address**, and then press the **OK** button.
 - Network Setup
 1/3 Page

 TCP/IP
 2 NetBIOS over TCP

 3 IP Address Set
 4 IPv4 Address

 5 Subnet Mask
 6 Gateway Address

 7 3 ↑ / ↓ Page
 2 NetBiose
- 9. Press the scroll buttons ▲ and ▼ or the numeric keypad to input the first three digits of the IP address, and then press the **OK** button. Use the same operation to input the next three digits. After input is complete, press the **BACK** button.

To move to the next box, press the **OK** button.

Network Setup	IPv4 Address
TCP/IP	✓ 192. 168. 0. 2
2 NetBIOS ove	
3 IP Address S	
4 IPv4 Address	
5 Subnet Mask	
6 Gateway Add	
781/1Pa	Use Online button to return to s

Note: The IP address in the screen is an example. Check with your enterprise network administrator for the value to actually input.

10. Press the scroll button ▼ to select **Subnet Mask**, and then press the **OK** button.

Network Setup	1/3 Page
TCP/IP	Π
2 NetBIOS over TCP	
3 IP Address Set	
4 IPv4 Address	
5 Subnet Mask	
6 Gateway Address	
7 8 † / ↓ Page	

11. Input the subnet mask the same way as the IP address. After input is complete, press the **BACK** button.



- 12. Press the scroll button ▼ to select Gateway Address, and then press the OK button.
 - Network Setup
 1/3 Page

 1 TCP/IP
 2 NetBIOS over TCP

 3 IP Address Set
 4

 4 IPv4 Address
 5

 5 Subnet Mask
 6 Gateway Address

 7 8 ↑ / ↓ Page
 2
- 13. Input the gateway address the same way as the IP address. After input is complete, press the **BACK** button.



14. Press the **ON LINE** button to exit the network setup.



Configuring the IP Address and Other Settings on the Computer

If your computer already has an IP address and other settings configured, or if an IP address is obtained automatically, advance to "Installing the Printer Driver (Network)" on page 50.

- 1. Turn on the computer.
- 2. Click **Start**, and then select **Control panel** in Windows.

3. Click View network status and tasks.



4. Click Change adapter settings.

→ Y ↑ X Network	and Internet > Network and Sharing Center	√ Ū	Search Control Panel	
Edit View Tools				
Control Panel Home	View your basic network informatio	n and set up conne	tions	
	View your active networks			
Change adapter settings				
Change advanced sharing settings	Unidentified network Public network	Unidentified network Access type: No network access Public network Connections: Ethernet		
secongs	Public network	connections	# Ethemet	
	Troubleshoot problems Diagnose and repair network problem	mr. or get troubleshooting	information	
	Diagnose and repair network problem	ns, or get troubleshooting	mornation.	
See also				
HomeGroup				
HomeGroup Infrared				
HomeGroup				

5. Click the icon showing the name of the Network adapter.



6. On the "Ethernet Status" screen, click **Properties**.

Ethernet Status			
General			
Connection			
IPv4 Connectivity:		No network acc	ess
IPv6 Connectivity:		No network acc	ess
Media State:		Enab	oled
Duration:		00:26	:22
Speed:		100.0 M	bps
Details			
Activity	Sent —	Receiv	/ed
	Sent —	Receiv	/ed 0
Packets:		Receiv	

7. Select Internet Protocol Version 4(TCP/IPv4), and then click Properties.

Ethernet Properties >	<
Networking Sharing	
Connect using:	
Ethemet Connection	
Configure	
Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	
across diverse interconnected networks. Close Cancel	

8. Input the IP address, subnet mask, default gateway, and DNS server, and then click **OK**.

Internet Protocol Version 4 (TCP/IPv4	4) Properties	×
General		
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.		
Obtain an IP address automatica	ally	
• Use the following IP address:		
IP address:	192.168.0.3	
Subnet mask:	255.255.255.0	
Default gateway:	192.168.0.1	
Obtain DNS server address auto	matically	
Use the following DNS server ad	dresses:	
Preferred DNS server:	· · ·	
Alternate DNS server:		
Validate settings upon exit	Advanced	
	OK Cance	

Note: When obtaining an IP address automatically from a DHCP server, select **Obtain an IP address automatically** without inputting an IP address.

Note: If a default gateway or DNS server is not to be used, do not input its address.

9. Exit the "Ethernet Properties" screen.

Installing the Printer Driver (Network)

- 1. Ensure the QL-300 is powered on and connected to the network via a LAN cable. See "Connecting a LAN Cable" on page 40.
- 2. Start the driver installation software. You can obtain the software from www.QuickLabel.com/downloads.
- 3. When the language selection window is displayed, select a language. Then click **OK**.

Select Language	×
Please select your language.	
English (United States)	•
OK Cancel	

4. Read the Software License Agreement, and then click Accept.



5. Verify the pre-installation check items, and then click **Next**.

Pre-Installation Check	
	Welcome to the driver installation Wizard You will be guided through the steps for installing drivers and other software for your device. Before you begin, please check the following:
	For devices connected to a network: The device must be switched ON, connected to the network and have the correct IP address and other settings. For devices connected locally such as with a USB cable: The device must be switched OFF and not connected to your computer.
	< Back

6. Click Easy Installation (Network).

hoose installation type	
	Please choose an installation type.
	Easy Installation (Local)
	Custom Installation
	< Back Next > Cancel Help

7. The driver searches for printers. After supported printers are detected, select the printer from the device list.

Installation settings			
	Review your in Click "Next".	stallation	settings.
e e e e e e e e	Device	IP Address	Printer name
	QuickLabel QL-300s	172.16.2.236	G QL-300s-91F5F9
	QuickLabel QL-30		Search settings Search Range Printer name/IP Address 255.255.255 Regtart search SNMP Setting
	< Back	<u>N</u> ext >	Cancel Help

8. Select the driver version that matches your printer model. For example, select QuickLabel QL-300s if you are using a QL-300s printer. Then click **Next**.

Review your in Click "Next".	istallation se	ttings.
 Device	IP Address	Printer name
 QuickLabel QL-300s	172.16.2.236	QL-300s-91F5F9
QuickLabel QL-30	Os PCL6	ch settings Search Range Printer name/IP Address
		5.255.255.255 Regtart search S <u>N</u> MP Setting

9. When you are prompted to create a port, select **IP Address (Recommended)**. Then click **OK**.

Creating a port	
Select a port to create from the following.	
 IP Address(Recommended) Use the IP address. 	
Printer Name Use the printer name.	
ОК	Cancel

- Installation complete
 Installation complete. To end click "Finish".

 You can change the default printer from the list below or change the default settings by opening the driver Properties.

 QuickLabel QL-300s PCL6

 Success

 Property settings
- 10. The printer driver will be installed. After installation is complete, click **Finish**.

USB Connection

USB Setup Flow

Note: Confirm that the printer is turned off. *Note:* PC administrator privileges are required for the setup.

- 1. Turn on the printer.
- 2. Turn on the computer.
- 3. Install the printer driver.

Installing the Printer Driver (USB)

1. Ensure the QL-300 is powered off and **not** connected to your PC via the USB cable.

Note: Do not connect the USB cable until prompted later in this procedure.

- 2. Start the driver installation software. You can obtain the software from www.QuickLabel.com/downloads.
- 3. When the language selection window is displayed, select a language. Then click **OK**.

Select Language	×
Please select your language.	
English (United States)	•
OK Cancel	

4. Read the Software License Agreement, and then click Accept.



5. Verify the pre-installation check items, and then click **Next**.

Pre-Installation Check	
	Welcome to the driver installation Wizard You will be guided through the steps for installing drivers and other software for your device. Before you begin, please check the following:
	For devices connected to a network: The device must be switched ON, connected to the network and have the correct IP address and other settings. For devices connected locally such as with a USB cable: The device must be switched OFF and not connected to your computer.
	< Back

6. Click Easy Installation (Local).

noose installation type	
	Please choose an installation type.
	Easy Installation (Network)
	Easy Installation (Local)
	Custom Installation
	< Back Next > Cancel Help

7. Select the driver version that matches your printer model. For example, select QuickLabel QL-300s if you are using a QL-300s printer. Then click **Next**.

nstallation settings		×
	Review your installation settings.	
	QuickLabel QL-300 PCL6 QuickLabel QL-300s PCL6	
	< Back Next > Cancel H	Help

8. When prompted, connect the QL-300 to your PC with a USB cable. Then power on the QL-300. The installation will continue.

Installing	
	Installing drivers and applications Step 1. With the device powered off, connect your device to your computer.
	Step 2. Switch on your device.
	If the screen does not change when you connect the device, click "Install using another port", and continue with the installation.
	< Back Next > Cancel Help

9. The printer driver will be installed. After installation is complete, click **Finish**.

Installation complete	8
	Installation complete. To end click "Finish". You can change the default printer from the list below or change the default settings by opening the driver Properties.
	This screen will close automatically in 27 seconds.
	QuickLabel QL-300s PCL6 Success
	Property settings
	<back cancel="" finish="" help<="" th=""></back>

Windows Printer Drivers

There are two printer drivers available for the QL-300. You can use either the Windows PCL Printer Driver or the Windows PS Printer Driver. The driver you select will depend on your preferences and intended printing environment.

Use the Windows PCL Printer Driver if:

- You will be printing from CQL Pro software.
- Your labels contain dynamic content that will change at print time (serial numbers, dates, etc.).

Use the Windows PS Printer Driver if:

- You will be printing from Adobe Illustrator, Adobe Photoshop, or other desktop publishing applications.
- Your labels contain only static artwork that will not change at print time.
- You want more control over the white toner application features on the QL-300s.

Dealing with Setup Problems

If you run into problems while setting up a network connection or USB connection, refer to "Troubleshooting" on page 268.

This section describes possible problems that may occur while operating the printer, and recommended steps to resolve them.

3

Part Names and Functions

Printer Front/Left Side



#	Part	Description
1	Top Cover	Open when replacing the print cartridge, belt unit, 2nd transfer roller, or waste toner box, or when clearing a paper jam.
2	Control Panel	Displays the printer status and menus, and is used when configuring function settings. See "Control Panel" on page 66.
3	Power Connector	Connect the supplied power cord here.
4	Fuser and Exit Unit	Remove when replacing the fuser and exit unit or when clearing a paper jam. The fuser and exit unit are wear items.
5	Fuser and Exit Unit Locking Lever	Use when removing or installing the fuser and exit unit.

Printer Exit



#	Part	Description
1	Fuser and Exit Unit Handle	Pull upwards when removing the fuser and exit unit.
2	Exit Feed Cover	Open when clearing a paper jam.
3	Release Lever	Press downwards when opening the exit feed cover.

Printer Interior 1



#	Part	Description
1	Print Cartridge	Develop the image with toner drawn by the LED head, and transfer the toner image onto the belt unit. The remaining life of the print cartridge is always displayed while the "Supplies Life" is specified for the standby screen of the control panel. The print cartridge is a wear item.
2	Print Cartridge Set	Remove when replacing the belt unit, 2nd transfer roller, or waste toner box, or when clearing a paper jam.
3	LED Head	Draws the image being printed onto the print cartridge.
4	Belt Unit	Transfers toner to the paper. The belt unit is a wear item.
5	Belt Unit Handle	Grasp when removing the belt unit.

Printer Interior 2



#	Part	Description
1	Waste Toner Box	Stores waste toner. A message appears on the control panel when the box is full of waste toner. The waste toner box is a wear item.
2	2nd Transfer Roller	Transfers toner to the paper. The 2nd transfer roller is a wear item. The 2nd transfer roller is included with the belt unit.
3	Paper Guide	Remove when a paper jam occurs in the paper transport path or when cleaning the paper transfer roller. The Paper Guide is a periodically replaced part.

Interface Connectors



#	Part	Description
1	LAN (Network) Interface Connector	For connection of a LAN cable. Use this connector when connecting the printer on a network.
2	USB 2.0 Interface Connector	For connection of a USB 2.0 cable. Use this connector when using a USB cable to connect the printer directly to a computer.

Unwinder



#	Part	Description
1	Unwinder Cover	Open this when setting paper or clearing paper jams.
2	Roll Paper Holder	Sets the paper to be printed.
3	Flange	Fixes roll paper to the roll paper holder so the roll paper set on the roll paper holder feeds straight.
4	Flange Locking Lever	Use when removing/mounting the flange.
5	Roll Paper Holder Knob	Use when securing the core of a roll paper that has been placed on the roll paper holder.
6	Tension Bar Open Lever	Keeps roll paper that has been set from sagging.
7	Unwinder Cover Open Lever	Lower to open the unwinder cover.

Unwinder Interior



#	Part	Description
1	Roll Paper Guide Adjustment Knob	Rotate the knob to adjust the roll paper guide to the width of the paper to be printed.
2	Roll Paper Guide	Align the roll paper guide along the edge of paper to be printed.
3	F0 Roller Unit	The F0 roller unit is a roller for feeding roll paper. The F0 roller unit is a periodically replaced part.
4	Cutter Unit	Cuts the roll paper to a specified length. The cutter unit is a periodically replaced part.

Control Panel

Control Panel Overview

The control panel can be used to check the current status of the printer and to access various functions available with the printer.

With this printer, print cartridges etc. can be replaced while monitoring the LCD on the control panel. If a paper jam or some other problem occurs on the printer, corrective action can be taken while monitoring messages that appear on the LCD.



#	Part	Description
1	Display screen	 Shows the printer's status and menus.
		 The standby screen shows either of two displays: "Supplies Life display" or "Unwinder Config display".
2	POWER button	Turns the main power supply of the printer on or off.
		 Pressing this button while in the off mode turns on the main power supply.
3	POWER SAVE button	Enters or exits the Power Save Mode.
		• This button is lit green in the Power Save Mode.

#	Part	Description
4	OK button (menu button)	Executes the currently selected menu item or applies the setting being configured.
5	HELP button	 Displays the Help Screen. This button lights orange when you can refer to help messages describing the error that has occurred and providing information about how to clear the error.
6	BACK button	Goes back to the previous screen.
7	ATTENTION lamp	Indicates the printer's status. This lamp is unlit when the status is normal. An error causes this lamp to light or flash orange.
8	Scroll buttons ▲ and ▼ (menu buttons)	 Use these buttons to select menu screen items, and to scroll menu pages forward or back. On a value input screen, these buttons are used when inputting values.
9	ON LINE button	 Switches between online and offline. This button is lit green while the printer is online and unlit when offline.
10	Numeric keypad (1 to 0, *, C)	 The numeric keypad is used when inputting numeric values or passwords. Pressing the * (Fn) key while the standby screen is displayed displays the "Function Number Input" screen for inputting a number that directly accesses menu items.
11	CANCEL button	Cancels an ongoing print job or setting operation.
12	FEED button	Feeds paper.
13	UNLOAD button	Unloads paper.

Using the Control Panel

This section describes the main operations that can be performed using the control panel, and provides information about interpreting LCD contents.



Pressing the scroll button \blacktriangle or \checkmark displays the [Functions] menu screen shown to the right.

- When a menu item represents a next-level menu or a selection of setting options, selecting the item and then pressing the **OK** button displays the applicable screen.
- While a setting is displayed, pressing the OK button applies it. (A check mark appears to the left of the value.)

Standby Screen

The standby screen shows either of two displays: "Supplies Life display" or "Unwinder Config display".

Use the procedure below to switch between the two standby screen displays.

1. Press either the scroll button \blacktriangle or \blacktriangledown to display the **Functions** screen.



2. Press the scroll button ▼ several times to select Admin Setup, and then press the OK button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 💽 Admin Setup	
5 🗪 Print Statistics	
6 Calibration	
Use Online button to return to s	standby screen.

3. Use the numeric keypad to input the administrator password.

The factory default password is 999999. Press the **OK** button after inputting each character.

(6 - 12 digits)		

- 4. Press the **OK** button.
- 5. Press the scroll button ▼ several times to select **Panel Setup**, and then press the **OK** button.

Admin Setup	2/2 Page
1 Panel Setup	
2 Time Setup	-12
3 Power Setup	
4 Others Setup	
5 Settings	
6 Change Password	
781/ Page	

6. Press the scroll button ▼ several times to select **Idle Display**, and then press the **OK** button.



7. To show the Supplies Life display, select **Supplies Life**, and then press the **OK** button.

If you want to display the Unwinder Config display, select **Unwinder Config**, and then press the **OK** button.



8. Press the **ON LINE** button to return to the standby screen.



Error Screen

When a problem occurs on the printer, the ATTENTION lamp lights or flashes, and a message appears on the LCD.

Depending on the error, information about how to clear the error or an animation also appears in addition to the message.

Pressing a control panel button while an error screen is displayed changes the status of the printer as described below.

Button	Action
POWER SAVE	Puts the printer into the Power Save Mode. Pressing the POWER SAVE button while the printer is in the Power Save mode returns to the standby screen.
HELP	If the HELP button is lit, pressing it displays help information about the displayed error.
ок	If the error message indicates a clearable error, pressing the OK button returns to the standby screen.
ON LINE	If the error message indicates a clearable error, pressing the ON LINE button returns to the standby screen.

Button	Action	
CANCEL	The errors listed below can be canceled with the CANCEL button.	
	Press the UNLOAD button and replace paper.	
	There is no paper on the unwinder.	
	Restart printing from the page below.	
	Cut the paper and start printing.	
	Insufficient memory. Print data is too large.	

Help Screen

Press the **HELP** button to display the Help Screen. If the **HELP** button is lit, pressing it displays help information about the displayed error.

Help (Error Code:333)	1/3 Page
【Context】 The fuser and exit unit has not be	en connected.

While a help screen is displayed, pressing the scroll button \blacktriangle scrolls to the previous page. Pressing the scroll button \blacktriangledown scrolls to the next page. Long pressing the scroll button \blacktriangle or \blacktriangledown scrolls the page for approximately 0.5 seconds.

To exit the help screen, press the **HELP** button again. The help screen can also be closed by pressing the **BACK** button, **ON LINE** button, or **CANCEL** button.

Using the Numeric Keypad

The numeric keypad is used when inputting numeric values or alphabetic characters.



Each press of a key cycles through the characters assigned to it as shown below.

Кеу	Characters
1	1

Кеу	Characters
2	Cycles with each press (2 \rightarrow a \rightarrow b \rightarrow c)
3	Cycles with each press $(3 \rightarrow d \rightarrow e \rightarrow f)$
4	Cycles with each press (4 \rightarrow g \rightarrow h \rightarrow i)
5	Cycles with each press (5 \rightarrow j \rightarrow k \rightarrow l)
6	Cycles with each press (6 \rightarrow m \rightarrow n \rightarrow o)
7	Cycles with each press (7 \rightarrow p \rightarrow q \rightarrow r \rightarrow s)
8	Cycles with each press (8 \rightarrow t \rightarrow u \rightarrow v)
9	Cycles with each press $(9 \rightarrow w \rightarrow x \rightarrow y \rightarrow z)$
0	0

For example, to input "abc" press the following: $2 \rightarrow 2 \rightarrow OK \rightarrow 2 \rightarrow 2 \rightarrow OK \rightarrow 2 \rightarrow 0K$.

The numeric keypad also has two other keys, whose functions are described below.

Кеу	Description
Fn	Pressing this key displays a shortcut to the function number. (Enabled when standby screen is displayed.) When inputting a value, this key is used to cycle through symbols.
CLEAR	When inputting a password, pressing this key deletes a single character.

Function Number Input Screen

While "Ready to print" is displayed on the standby screen, pressing the **Fn** key and then inputting a number displays the corresponding menu.

1. Press the **Fn** key.


2. On the function number input screen that appears, use the numeric keypad to input a twoor three-digit number, and then press the **OK** button.

3digit Number	
-	

3. On the menu that appears, you can check the current setting and change it, if you want.



Function Number List

Function Number	Function Number Menu Item
90	Paper Size
91	X Dimension *1
92	Y Dimension *1
93	Media Type
94	Media Weight
100	Print Information (Configuration)
102	Print Information (Usage Report)
103	Print Information (Error Log)
200	Power Save Time
202	Auto Power Off Time
210	Error Report
220	Print Position Adjust

Function Number	Function Number Menu Item
230	Media Transfer Setting Black
231	Media Transfer Setting Color
234	SMR Setting
235	BG Setting
236	Drum Cleaning
237	Hex Dump
238	Transfer Roller Cleaning
300	Adjust Density
301	Adjust Registration
302	Print Color Tuning Pattern
310	Cyan Density
311	Magenta Density
312	Yellow Density
313	Black Density
314	White Density
890	Unwinder Config
891	Media Form
892	Adjust Cut Position
893	Sensor Calibration
894	Check Media Pitch
895	Cut Mode

*1: Enabled only if the paper size is set to Custom.

Paper Settings

5

Usable Media Types

For high-quality printing it is necessary to use paper that satisfies conditions regarding quality, thickness, paper finish, etc. Only print on media recommended by QuickLabel.

If using a (paper) medium that is curled or wrinkled before printing, print quality and paper traveling performance cannot be assured.

Paper Types, Size, and Thickness

Roll Paper Specifications

Media Form	Description
Continuous Paper	Paper wound on a roll
Continuous Paper (Black Mark)	Paper wound in a roll with black marks printed on the back surface
Die-cut Label (Gap)	Paper that is die-cut into a label shape
Die-cut Label (Black Mark)	Paper that is die-cut into a label shape with black marks printed on the back surface
Continuous Label	Paper that is not die-cut into a label shape, with the entire surface covered with label paper
Continuous Label (Black Mark)	Paper that is not die-cut into a label shape, with the entire surface covered with label paper and black marks printed on the back surface

Media Type	Description
Plain	Wood-free Paper
Plain Labels	Label paper made of wood-free paper
Glossy Labels	Label paper made of glossy paper
Film Labels	Label media made of film
Film	Film

Roll Paper Size	Specification
Roll Outside Diameter	No greater than 203.2 mm (8 inches)
Paper Width	25.4 to 130 mm (1 to 5.12 inches)
Paper Thickness	0.07 mm to 0.25 mm (0.003 to 0.0098 inches) When there is backing paper, total thickness includes backing paper.
Roll Core Width	Same as roll paper
Roll Core Inner Diameter	76.2 mm

• Using metal foil paper or conductive paper creates the risk of defective printing due to electrical discharge, and device malfunction.

Use of metal foil paper and conductive paper is prohibited.

- Use paper that has black marks printed on its back surface (non-printing surface). Black marks printed on the front surface cannot be detected.
- Use paper with black marks printed with carbon ink.
- Thermal paper will become discolored and deformed by heat used for fusing. Do not use it.
- Use film that can withstand heat up to 230°C. Use of film that is not heat resistant creates the risk of film deformation by heat used for fusing, paper jams, and device malfunction.
- Do not use a liner on which glue is smeared. It will not feed correctly in the equipment. In the worst case, it could damage the equipment.
- Cast-coated paper is not recommended. Printing quality cannot be guaranteed when it is used.
- If the paper length, label length, or black Mark Interval for a single sheet is less than 4 inches, blank sheets may be printed to satisfy the paper length that can be fed.
- Use of the types of paper below is not supported.

Paper whose roll surfaces are not cut cleanly

Paper that is connected part way through by tape, etc.

Label paper without backing paper with paste on the front surface

Paper whose labels are easy to peel or are peeling

Paper with paste squeezing out onto the base paper area or affixed to the label surface

Paper that is folded or bent

Paper that has holes in it

Paper that is notched

Paper that has perforations

Paper with different size labels on a single roll

Paper with different paper widths on a single roll

Setting the Paper Weight

Set the printer and printer driver paper weight according to the weight of the paper to be used.

Paper Weight (Total thickness including backing paper)	Setting Value of the Media Weight
76 to 95 μm	Light
96 to 140 µm	Medium Light
141 to 159 µm	Medium
160 to 180 μm	Medium Heavy

Paper Weight (Total thickness including backing paper)	Setting Value of the Media Weight
181 to 199 μm	Heavy
200 to 214 µm	Ultra Heavy1
215 to 229 µm	Ultra Heavy2
230 to 249 µm	Ultra Heavy3

Storing Media

Improper paper storage can cause absorption of moisture, discoloration, and warping. Note that printing on such paper can adversely affect print quality, feeding, etc. Leave packages of media unopened until you are actually ready to use them.

Store media in locations like the ones described below:

- On a flat shelf in a location that is dark and where there is little moisture
- On a flat table
- An environment with a temperature of 73°F ±1.8°F (23°C ±1°C) and humidity of 50%RH ±2%

Avoid locations like the ones described below:

- Directly on the floor
- In direct sunlight
- Near the inside surface of an external wall
- On a surface that is uneven or curved
- In a location where electrostatic charge is generated
- In a location subjected to very high temperatures or sudden temperature changes
- Next to a photocopying machine, air conditioning equipment, heater, or duct

Note: Proper printing may not be possible on paper that has been stored for a long time.

Note: Leaving roll paper in an environment where it is exposed to high temperatures and high humidity for long periods can cause it to become deformed. Do not use deformed roll paper. Store roll paper in an environment where the temperature and humidity are appropriate.

Note: We recommend putting partially used label paper back into the vinyl bag it was packaged in, to prevent the paper from absorbing moisture.

Registering a Desired Paper Size with the Printer Driver

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.

3. Right-click the **QL-300** icon, and then select **Printing preferences**.

If you are using the Windows PCL printer driver, the following window will open.

Δ []	L Current setti	ng(Default setting)	~	Save	Management
T	current setti	ing (bendale secting)		<u>3</u> 07011	managementan
	2 Paper se <u>t</u> ting	Continuous 4	.000 x 6.000in	\sim	User- <u>d</u> efined paper
Pap	3	Format:	Continuous Paper		
er Fe	2	Media Type:	Plain		
Paper Feed Direction	1	Media Weight:	Medium Light (96-1	40 μm)	
ction !	5 Orientation :	Portrait	O Landscape] 1 <u>8</u> 0°	Mirror Print
	Copies:	1	Co <u>l</u> late		Print in reverse order
	5	✓ To prioritiz	e collation specified by a	pplication	
1	Cut Mode:	Only cut at th	e end of job	~	
1	3				
9	Quality:	Fine / Detail (1200 x 1200)	~	Photo Enhance
F		Scree <u>n</u> :	Prioritize resolution	n ~	

If you are using the Window PS printer driver, the following window will open.

Advanced Examp	ole	<u>Eavorites</u>	
T I	1	Current setting(De	fault setting)
	2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in v User- <u>d</u> efined paper
Paper F	з		Format: Continuous Paper Media Type: Plain
Paper Feed Direction	4		Media Weight: Medium Light (96-140 µm)
ction	5	Orientation :	● Portrait ○ Landscape □ 180* □ Mirror Print □
	6	C <u>o</u> pies:	1 🚔 Collate Print in reverse order
	7	<u>C</u> ut Mode:	Only cut at the end of job
	8		
	9	<u>Q</u> uality:	Fine / Detail (1200 x 1200)
	\square		Scree <u>n</u> : Fine 💌
(Ar	Duick	Label " ova Division	About Default
			OK Cancel Apply

- 4. On the **Setup** tab, click **User-defined paper**.
- 5. Input information about the paper you want to register.
 - a. Use **Registered user-defined paper** to select **New Paper**.
 - b. In the **Paper Name** box, enter a paper name.
 - c. Select a Media Form to match the paper.
 - d. Select a Media Type to match the paper.
 - e. Select a Media Weight to match the paper thickness.

If you are unsure of the paper thickness, select Medium Light.

f. Enter paper size information.

aper <u>N</u> ame:	<new paper=""></new>				Paper Information				
egistered use	r-defined paper:				Media Fo <u>r</u> m:	Die-cut L	abel (Black Mark)		`
	000 x 6.000in 6 105.0 x 148.0mm ize 4.000 x 6.000in			<u>A</u> dd Overwrit <u>e</u> <u>D</u> elete	Media <u>T</u> ype: Media <u>W</u> eight: Sensor settijngs:	Plain lab Medium	Light (96-140 µm)		``
p <u>o</u> sition:	correction 0.0 🔹 [-2.0	2.0 2.0] Paper Feed Direction		Label length(<u>Y</u>) Label width(<u>X</u>) Right gap Cardboard wid Margin Gap		111.3 • [12.7 97.6 • [25.4 2.0 • [2.0 101.6 • [29.4 2.12 3.0 • [3.0	1320.8 126.0 25.4 130.0 10.0	

Input the label length and gap for media that has gaps and the black mark interval for black mark media.

Use a ruler to measure, as accurately as possible, the actual size of the media, and then input those values.

If the label length or the black mark interval is less than 4 inches, use the following method to measure the media, and then input values to the first decimal place to be accurate.



How to Measure the Actual Size of Paper

(1) Measure the length from the leading edge of the first label (or black mark leading edge) to the leading edge of the 11th label (or black mark leading edge). Use this as L (mm).

(2) Divide the length you measured in (1) by 10 to calculate the length from the leading edge of the first label (or black mark leading edge) to the leading edge of the 2nd label (or black mark leading edge) to the first decimal place.

(3) Subtract the length of the gap from the length you calculated in (2) to calculate the length of one label to the first decimal place.

For media that has gaps, input the value calculated in (3) in **Label length** and input the gap length in **Gap**.

For media that has black marks, input the value calculated in (2) in **Black Mark Interval**.

Note: The minimum page length is 25.4 mm (1 inch) for the Windows PS printer driver, which is different from the Windows PCL printer driver.

- 6. Enter other information as required.
 - a. If you performed sensor adjustment, select the sensor setting that was registered to the device from **Sensor settings**.

For information about adjusting the sensor, refer to "Calibrating the Sensor" on page 104.

- b. If you want to fine-tune the image position, enter the position shift amount into **Print position correction**.
- c. If you want to fine-tune the paper cut position, enter the position shift amount into **Cut position correction**.

er-defined paper	_			
Paper Name: Label BM1 120x100		Paper Information		
Registered user-defined paper:		Media Fo <u>r</u> m:	Die-cut Label (Gap)	`
New paper Continuous 4.000 x 6.000in Continuous A6 105.0 x 148.0mm	Add	Media <u>T</u> ype:	Plain label	
User Defined Size 4.000 x 6.000in Label BM1 120x100 97.6 x 101.6mm	Overwrit <u>e</u>	Media <u>W</u> eight:	Medium Light (96-140 µm)	`
	<u>D</u> elete	Sensor sett <u>i</u> ngs:	1. User settings 1	```
			Sensor Adjus	tment
			Printer information	n acquisition
ize Unit		Label length(Y)	101.6 🔹 [12.7	1320.8
millimeters O inch Print position correction		Label width(X)	97.6 🗣 [25.4	126.0
K gosition: 0.0 🗲 [-2.0 2.0]	<	Right gap	2.0 🗧 [2.0	25.4
Y position: 0.0 🔷 [-2.0 2.0]	↔ ↔	······ Cardboard wid	th 101.6 🖨 [29.4	130.0
K gosition: 0.0 € [-2.0 2.0] Port Fred Fred Cut position Cut position correction 0.0 € [-2.0 2.0] Cut position correction		······ Margin	2.12	
Y Po <u>s</u> ition: 0.0 후 [-0.5 0.5]		Gap	3.0 💌 [3.0	10.0
			Close	Help

7. When all the input is complete, click **Add**.

Using the Printer Driver to Fine-tune the Print Position

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.

3. Right-click the **QL-300** icon, and then select **Printing preferences**.

If you are using the Windows PCL printer driver, the following window will open.

اً 🔺	1	<u>F</u> avorites		-	
TI	•	Current setting(De	fault setting)	<u>S</u> ave	<u>M</u> anagement
	2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in	~	User- <u>d</u> efined paper
Pape	3		Format: Continuous Paper		
erFe	3		Media Type: Plain		
Paper Feed Direction	4		Media Weight: Medium Light (96-140	μm)	
ction	5	Orientation :	Portrait Candscape 1	1 <u>8</u> 0°	Mirror Print
	6	Copies:	1 🖨 🗌 Co <u>l</u> late		Print in reverse order
	•		To prioritize collation specified by app	lication	
	7	Cut Mode:	Only cut at the end of job	~	
	8				
	9	Quality:	Fine / Detail (1200 x 1200)	~	Photo Enhance
ĺ	=		Scree <u>n</u> : Prioritize resolution	\sim	

If you are using the Window PS printer driver, the following window will open.

1	Current setting(De	fault setting)
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in User- <u>d</u> efined paper
3		Format: Continuous Paper Media Type: Plain
Date 3		riteaia Type: Plain Media Weight: Medium Light (96-140 μm)
5	Orientation :	Portrait Candscape Ig0* Mirror Print
6	C <u>o</u> pies:	1 Collate Print in reverse order
7	<u>C</u> ut Mode:	Only cut at the end of job
8		
9	Quality:	Fine / Detail (1200 x 1200)
H		Scree <u>n</u> :

4. On the **Setup** tab, click **User-defined paper**.

5. Use the **Registered user-defined paper** list to select the paper whose print position you want to correct.

If the paper you want to use is not in the list, select **New paper** and add it. See "Registering a Desired Paper Size with the Printer Driver" on page 78.

User-defined pap	er					×
New paper Continuous 4. Continuous A6	User Defined Size r-defined paper: 000 x 6.000in 6 105.0 x 148.0mm size 4.000 x 6.000in		<u>A</u> dd Overwrit <u>e</u>	Paper Information Media Fo <u>r</u> m: Media <u>T</u> ype: Media <u>W</u> eight:	Continuous Paper Plain Medium Light (96-140 µm)	~
Size Unit	: @inch		Delete	/ Paper length (Y	Printer information acquisition	
Print position of X gosition: 0 Y position: 0 Cut position co	correction	Paper Feed Direction		Paper width(∑) Top/Bottom m Left/Right marg	argin 0.083 Extended Printing	- 1
					<u>C</u> lose <u>H</u> e	lp

6. In **Print position correction**, set the values for the print start positions vertically and horizontally on the paper.

User-defined paper				×
Paper <u>N</u> ame: User Defined Size Registered user-defined paper:		Paper Information Media Form:	Continuous Paper	~
New paper Continuous 4.000 x 6.000in Continuous A6 105.0 x 148.0mm "User Defined Size 4.000 x 6.000in	<u>A</u> dd Overwrit<u>e</u> Delete	Media <u>T</u> ype: Media <u>W</u> eight:	Plain Medium Light (96-140 µm)	~
Size Unit		/ ^{·····} Paper length(Y)	Printer information acquisition	_
O millimeters ● inch Print position correction		Paper width(X) Top/Bottom m Left/Right marg	,,]
Cut position correction g Y Pogition: 0.000 [-0.020 0.020]			<u>C</u> lose <u>H</u> elj	2

7. Click **Overwrite**.

- 8. Click **OK** or **Close** as many times as necessary to exit the "Printing preferences" screen.
- 9. Open the file to be printed.
- 10. Specify the paper size, and then print.

Using the Printer Driver to Fine-tune the Cut Position

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the **QL-300** icon, and then select **Printing preferences**.

If you are using the Windows PCL printer driver, the following window will open.

	<u>F</u> avorites		
1	Current setting(De	fault setting)	e <u>M</u> anagement
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in	V User- <u>d</u> efined paper.
3		Format: Continuous Paper Media Type: Plain	
		Media Weight: Medium Light (96-140 µm)	
4			
5	Orientation :	● Portrait ◯ Landscape □ 1 <u>8</u> 0°	Mirror Print
6	C <u>o</u> pies:	1 🖨 🗌 Co <u>l</u> late	Print in reverse ord
•		To prioritize collation specified by application	
7	<u>C</u> ut Mode:	Only cut at the end of job	/
8			
9	Quality:	Fine / Detail (1200 x 1200)	Photo Enhance
		Scree <u>n</u> : Prioritize resolution \checkmark	

If you are using the Window PS printer driver, the following window will open.

1	Current setting(De	ault setting)	<u>M</u> anagement
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in 💌	User- <u>d</u> efined paper
3		Format: Continuous Paper Media Type: Plain	
3 4		Media Type: Plain Media Weight: Medium Light (96-140 μm)	
5	Orientation :		Mirror Print
6	C <u>o</u> pies:	1 Collate	Print in r <u>e</u> verse order
7	<u>C</u> ut Mode:	Only cut at the end of job	
8			
9	Quality:	Fine / Detail (1200 x 1200) 🔹	🔲 Image Smoot <u>h</u> ing
		Scree <u>n</u> : Fine •	

4. On the **Setup** tab, click **User-defined paper**.

5. Use the **Registered user-defined paper** list to select the paper whose cut position you want to correct.

Note: If the paper you want to use is not in the list, select **New paper** and add it. See "Registering a Desired Paper Size with the Printer Driver" on page 78.

aper <u>N</u> ame:	User Defined Size			Paper Information		
egistered use	r-de <u>f</u> ined paper:			Media Form:	Continuous Paper	
	.000 x 6.000in 6 105.0 x 148.0mm Size 4.000 x 6.000in		<u>A</u> dd Overwrit <u>e</u> Delete	Media <u>T</u> ype: Media <u>W</u> eight:	Plain Medium Light (96-140 μm)	
e Init				/ Paper length(Y	Printer information acquisitio	
		5		Paper width(X) Top/Bottom m Left/Right mar	4.000 🛊 [1.000 5.118 hargin 0.083 🗌 Extended Printir	
Out position co	orrection		↓ \$ ↓			

6. Use **Cut position correction** to specify an adjustment value for distance from the print completion position to the cut position.

User-defined paper			X
Paper Name: User Defined Size Registered user-defined paper: New paper Continuous 4.000 x 6.000in Continuous 6.015.0 x 143.0mm *User Defined Size 4.000 x 6.000in	<u>A</u> dd Overwrit <u>e</u> <u>D</u> elete	Paper Information Media Fo <u>r</u> m: Media <u>T</u> ype: Media <u>W</u> eight:	Continuous Paper ✓ Plain ✓ Medium Light (96-140 μm) ✓
Size <u>Unit</u> O millimeters ● inch Print position correction X position: 0.000 ○ [-0.079 0.079] Y position: 0.000 ○ [-0.079 0.079] Cut position correction Y Position: 0.000 ○ [-0.020 0.020]		Paper length(Y) Paper width(X) Top/Bottom m Left/Right marg	4.000
			<u>C</u> lose <u>H</u> elp

7. Click Overwrite.

- 8. Click **OK** as many times as necessary to exit the "Printing preferences" screen.
- 9. Open the file to be printed.
- 10. Specify the paper size, and then print.

Full-Bleed Label Example

In full-bleed labels, color prints up to the edge of the label. With non-bleed labels, color stops at a margin before the edge of the label.

You can print non-bleed labels on gap media. Full-bleed labels, however, must be created using die-cut label media with the matrix left intact.

This section provides general setup information and examples for printing full-bleed labels.

Required Information

- Media construction width Measurement including edge trim, matrix, and label
- Media construction length Measured from the top of a mark to the top of the next mark
- **Printable width** Media construction width minus the PCL driver left and right margins
- Printable length Media construction length minus the PCL driver top and bottom margins
- Non-printable margins set by the PCL driver for Continuous Paper (Black mark) Top/Left/Right margin: 0.083" (2.12mm)
 Bottom margin: 0.126" (3.20mm)

General PCL Driver Setup

- Media Form: Continuous Paper (Black mark)
- Black mark interval (Y): Media construction length
- **Paper width (X):** Media construction width
- For over bleed on the trailing label edge:
 Print position correction: Adjust as needed

General CQL Pro/Label Design Setup

Printable Label Size:

Width: Printable width

Length: Printable length

• Create display margins to display die-cut location for over bleed:

Top margin: Top of leading mark to Die-cut (.25" (6.35mm)) minus top margin

Bottom margin: Top of trailing mark to Die-cut (.25" (6.35mm)) minus bottom margin (This value is approximately zero)

Left margin: (Edge trim plus bleed zone) - left margin

Right margin: (Edge trim plus bleed zone) - right margin

Example PCL Driver Setup

Example Setup For Mark Media with 4" x 6" (101.6mm x 152.4mm) Die-cut Label:

• Media Form: Continuous Paper (Black mark)

- Black mark interval (Y): 6.375" (161.9mm)
- Paper width (X): 4.625" (117.5mm)
- For over bleed on the trailing label edge:
 - Y Position: 0.05" (1.3mm) (As Needed)

User-defined paper	×
Paper Name: Example Label Registered user-defined paper:	Paper Information Media Form: Continuous Paper (Black Mark) • Media Iype: Plain • Media Weight: Medium Light (96-140 µm) • Sensor settings: 1. User settings 1 • Sensor Adjustment Printer information acquisition
Size Unit	Black mark interval() 6.375 [0.626 52.126] Paper width() 4.625 [1.000 5.118] Top/Left/Right margin 0.083 Bottom margin 0.126 [] [] [] [] [] [] [] [] [] []

Example CQL Pro/Label Design Setup

Example Setup For Mark Media with 4" x 6" (101.6mm x 152.4mm) Die-cut Label:

Printable Label Size:

Width: 4.459" (113.3mm) Length: 6.166" (156.6mm)

Create display margins to display die-cut location for over bleed:

Top margin: 0.167" (4.2418mm)

Bottom margin: 0.0" (0.0mm)

Left margin: 0.2295" (5.8293mm)

Right margin: 0.2295" (5.8293mm)

QL-300 Media Settings

Use the following table to select the recommended printer driver settings associated with your QL-300 media. These settings provide good print quality and durability. Your results may vary depending on label content, toner amounts, and environmental factors. Individual adjustments may improve results.

QL-300 Materials	Media Type Setting	Media Weight Setting
#61 Card Stock	Glossy	Heavy

QL-300 Materials	Media Type Setting	Media Weight Setting
#66 Matte Paper	Glossy	Ultra Heavy 1
#106 Matte White Vinyl	Film Label 1	Heavy
#117 Clear PET	Film Label 1	Ultra Heavy 3
#121 Textured Wine Label	Plain Label	Medium
#122 Matte White Vinyl	Film 1	Heavy
#128 Vellum Wine Label	Plain Label	Medium
#135 Semi Gloss Paper	Plain Label	Ultra Heavy 3
#154 Semi Gloss PET	Glossy	Ultra Heavy 2
#158 High Gloss Paper	Film 1	Ultra Heavy 1
#168 Matte Polyester	Film 1	Ultra Heavy 3
#172 Gloss Polypropylene	Film Label 1	Ultra Heavy 1
#198 Satin Polypropylene	Film Label 1	Heavy
#199 Clear Gloss Polyester	Glossy Label	Heavy
#223 Matte Vellum	Glossy Label	Ultra Heavy 3
#245 High Gloss PET	Film Label 1	Ultra Heavy 3
#253 Kraft Paper	Plain Label	Medium Light
#254 Black Paper	Film Label 1	Ultra Heavy 3
#255 Matte Gold Paper	Glossy	Medium-Heavy
#256 Bright Gloss Silver Paper	Glossy	Medium-Heavy
#257 Matte Silver Paper	Glossy	Medium-Heavy
#259 Gloss Silver Metallic PET	Film Label 1	Medium
#260 Bright Gloss Gold Paper	Glossy	Medium-Heavy
#261 Grasspaper	Glossy	Medium
#264 Hemp Paper	Plain Label	Medium

QL-300 Materials	Media Type Setting	Media Weight Setting
#265 Grape Label	Plain Label	Medium
#273 White Polyolefin	Glossy Label	Medium-Heavy
#279 Matte clear PET	Glossy Label	Medium

Printing

6

Preparing Paper

This section describes how to load paper onto the holder of the unwinder. For paper sizes and types that can be loaded onto the unwinder, see "Paper Types, Size, and Thickness" on page 76.

- 1. Remove the paper from the packaging.
- 2. Take care of the tape that is holding the leading edge of the paper.

If there is no tape holding the leading edge of the paper, you can just load it as is.

a. Remove the tape [1] that is holding the leading edge.

Caution: Remove the tape that is holding the leading edge of the paper before you use it. Do not load paper while the tape is still attached and feed it into the equipment. There is a risk of damaging the equipment.

b. Cut off the part of the paper [2] on which there is leftover adhesive [3].

Caution: There is a risk of adhesive being left over after removing the tape. If paper that still has adhesive on it is fed into the equipment, the adhesive may stick to the feed path and damage the equipment.



3. Check the leading edge of the paper and cut it off straight.

If the leading edge of the paper is cut straight, you can just load it as is.

Be particularly careful when replacing paper and after removing and reloading jammed paper.

When loading paper, cut the leading edge of the paper straight before loading it.

Caution: Do not cut at an angle, do not cut black marks, and do not cut labels. Depending on the size and shape of the leading edge, there is a risk of skewing the print position, not being able to print, or damaging the equipment.

• Standard media and continuous labels (dry edge)



• Standard media (with black marks) and continuous labels (dry edge)

1.2 to 4.0 mm (0.0472 to 0.1575 inches) Length of leading margin when paper is loaded



• Die-cut label paper (no black marks)

1.2 to 6.5 mm (0.0472 to 0.2559 inches) Length of leading liner when paper is loaded



• Die-cut label paper (with black marks)

1.2 to 4.0 mm (0.0472 to 0.1575 inches) Length of leading margin when paper is loaded



Loading Media

Load the paper onto the Unwinder. For paper sizes and types that can be loaded on the Unwinder, see "Paper Types, Size, and Thickness" on page 76.

Note: When setting roll paper, be careful not to drop it. As roll paper is heavy, when you drop it, there is a risk of injury.

Note: If you drop roll paper, it may roll on the floor and cause injury to the people around.

Note: To prevent roll paper from dropping, store it horizontally on a desk, etc.

Note: Do not use any roll paper that is not specified by the Roll Paper Specifications.

If the printer is turned OFF, press the **POWER** button to turn it on.

1. Open the Flange Locking Lever.



2. Remove the flange.



3. Rotate the Roll Paper Holder Knob to contract the Roll Paper Holder shaft.



4. Slide roll paper onto the Roll Paper Holder shaft as far as it will go.



Note: Make sure to slide the roll paper as far as it will go. Insufficiently sliding the roll paper can adversely affect print position accuracy.

Note: Take care to avoid pinching your fingers or hands when sliding the roll paper.

5. Rotate the Roll Paper Holder Knob to fix the roll paper core in place.



Note: Rotate the Roll Paper Holder Knob until it clicks.

6. Aligning the Flange with the Roll Paper Holder shaft as shown in the illustration, attach the Flange.



7. Slide the Flange as far as it will go in accordance with the roll paper width.



Note: Slide the Flange up to the side of the loaded roll paper.Note: Take care to avoid pinching your fingers or hands when attaching the Flange.

8. Close the Flange Locking Lever.



Caution: After loading roll paper, take care not to rest your body weight on the top of the Roll Paper Holder shaft. Doing so risks causing injury due to the device falling.

9. Lower the Unwinder Cover Open Lever to open the Unwinder Cover.

Open the Unwinder Cover manually in the direction indicated by the arrow until it locks.



Note: Open the Unwinder Cover until it locks securely.

10. Before loading the paper, rotate the Roll Paper Guide Adjustment Knob counterclockwise and move the Roll Paper Guide towards you.



11. Pull up the F0 Roller Release Lever.



12. Press the Tension Bar Open Lever upwards until it clicks.



13. Pass paper below the Tension Bar and F0 Roller, and align the leading edge of the paper with the Roll Paper Guide [1] and Paper Guide [2].



14. Check the paper status from the direction indicated by the arrow.



Rotate the Roll Paper Guide Adjustment Knob to adjust the paper until it is straight.



If you rotate the Roll Paper Guide Adjustment Knob in:

15.

- Direction A the roll paper moves in the direction C
- Direction B the roll paper moves in the direction D
- 16. Lower the F0 Roller Release Lever to fix the roller in place.



17. Press down on the Tension Bar Open Lever until it clicks.



18. After loading the paper, rotate the Roll Paper Guide Adjustment Knob clockwise and align the Roll Paper Guide to the width of the paper.

Note: Set the Paper Guide correctly. If the Paper Guide is not set correctly, the width of the paper cannot be detected correctly.

Note: Be careful that the Roll Paper Guide does not press too strongly on the paper. Doing so could damage the paper.

Note: Do not allow too much of a gap between the paper and the Roll Paper Guide. Doing so could allow the paper to twist and the print position to shift.



• In the following example, the gap is too large.



• In the following example, the Roll Paper Guide is aligned to the width of the paper.



• In the following example, the Paper Guide is too tight.



19. Close the Unwinder Cover.

Caution: When closing the Unwinder Cover, there is a risk of pinching your fingers or hands. Press the top of the Unwinder Cover to close it.



Calibrating the Sensor

Check the position of the sensor each time you load paper. Check the position of the sensor in the following cases especially.

- When you load a different type of paper
- When you switch the type of sensor from black mark sensor to gap sensor
- When you switch the type of sensor from gap sensor to black mark sensor

If the sensor position settings do not match, paper feed jams may occur, you cannot adjust the black mark sensor or the gap sensor, and the skew in the adjusted values may cause the print position to skew.

Confirming the Unwinder Sensor Position

Lower the Unwinder Cover Open Lever to open the Unwinder Cover.
 Open the Unwinder Cover manually in the direction indicated by the arrow until it locks.



Note: Open the Unwinder Cover until it locks securely.

2. Confirm the sensor position.



Sensor Position Adjustment Dial

a. Check the black mark sensor position

Align the paper, and check the actual position of the black mark and the black mark sensor position.



If the position of the black mark and the black mark sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 3).



The black mark sensor position is set 10 mm from the edge of the paper.

If the black mark is about 15 mm from the edge of the paper, you do not need to adjust it.

If the black mark is 15 mm or less from the edge of the paper, adjust the position of the Δ so it is in the center of the black mark.

b. Check the gap sensor position

Align the paper, and check the actual position of the label and the gap sensor position.



If the position of the label and the gap sensor position do not align in relation to the regular usage position, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 3).



The gap sensor position is set 16.5 mm from the edge of the paper.

If there is 10 mm or less on the right and left edges of the liner, then adjustments are not necessary.

If there is 10 mm or more on the right and left edges of the liner, then adjust the gap sensor using the above positions as a rough estimate.

If the corners of the label are rounded, then consider the position of the radius of the corner.

Refer to the following example of adjusting the position.


3. Rotate the Sensor Position Adjustment Dial to adjust the sensor position.



- If you rotate the Sensor Position Adjustment Dial in direction A, the sensor position moves in the direction C.
- If you rotate the Sensor Position Adjustment Dial in direction B, the sensor position moves in the direction D.

Confirming the Printer Sensor Position

1. Grasp the top cover open lever and open the top cover.



2. Remove the print cartridge set.



3. Place the removed print cartridge set on a flat surface covered with newspaper or something similar, and cover it with paper so it is not exposed to direct light.



4. Turn the two belt locking keys counterclockwise to release the lock.



5. Hold the belt unit handles (blue) on the left and right, and remove the belt unit at an angle.



Caution: Be careful not to spill waste toner while removing the belt unit.

Caution: Be careful to not pinch your hands or fingers between the handle and the machine while removing the belt unit.

Caution: When removing the belt unit, do not tilt it further than is needed to remove it.

6. Place the belt unit with the right side down on a flat surface covered with paper.



Caution: Place the belt unit on a flat surface, as shown in the diagram above. Do not stand it on its side.



Caution: Do not touch the belt surface or damage the belt.



7. Confirm the sensor position.



Sensor Position Adjustment Dial

a. Check the black mark sensor position

Align the paper, and check the actual position of the black mark and the black mark sensor position.

If the position of the black mark and the black mark sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 8).

The black mark sensor position is set, at the factory, to 58.5 mm from the right edge of the label liner.

Adjust the position of the arrow so it is in the center of the black mark of the media you are using.



Black mark (on back side or paper)

b. Check the gap sensor position

Align the paper, and check the actual position of the label and the gap sensor position.

If the position of the label and the gap sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 8).

The gap sensor position is set, at the factory, to 65 mm from the right edge of the label liner.

Adjust the position of the arrow so it is in the center of the labels of the media you are using.



8. Rotate the Sensor Position Adjustment Dial to adjust the sensor position.



- If you rotate the Sensor Position Adjustment Dial in direction A, the sensor position moves in the direction C.
- If you rotate the Sensor Position Adjustment Dial in direction B, the sensor position moves in the direction D.

9. Tilt the belt unit and align the arrow labels (red) on the belt unit and printer to position it, and then open the belt unit handles (blue) on the left and right.



Caution: Be careful to not pinch your hands or fingers between the handle and the machine while installing the belt unit.

10. Turn the two belt unit locking keys clockwise to lock it.



11. Put the print cartridge set back into the printer.



Caution: There is a risk of pinching your fingers or hands when repositioning the print cartridge set. Hold the handle parts of the basket for this operation.

12. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

Sensor Calibration

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.

3. Right-click the **QL-300** icon, and then select **Printing preferences**.

If you are using the Windows PCL printer driver, the following window will open.

xample	<u>F</u> avorites			
	Current setting(De	fault setting) $$	<u>S</u> ave	Management
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in	~	User- <u>d</u> efined paper
Paper Feed Direction		Format: Continuous Paper Media Type: Plain		
Feed		Media Weight: Medium Light (96-	-140 μm)	
Direc 4				
⁵ 5	Orientation :	Portrait Candscape	1 <u>8</u> 0°	Mirror Print
6	C <u>o</u> pies:	1 🗘 🖸 Co <u>l</u> late		Print in reverse order
6		✓ To prioritize collation specified by	application	
7	<u>C</u> ut Mode:	Only cut at the end of job	~	
8				
9	Quality:	Fine / Detail (1200 x 1200)	~	Photo Enhance
		Scree <u>n</u> : Prioritize resolution	on ~	

If you are using the Window PS printer driver, the following window will open.

 1	Current setting(De	fault setting)
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in view User-defined paper
Paper 3		Format: Continuous Paper Media Type: Plain
Baper Feed Direction		Media Weight: Medium Light (96-140 μm)
^{ction} 5	Orientation :	● Portrait ○ Landscape □ 180* □ Mirror Print □
6	C <u>o</u> pies:	1 Collate Print in rgverse order
7	<u>C</u> ut Mode:	Only cut at the end of job
8		
9	Quality:	Fine / Detail (1200 x 1200)
		Scree <u>n</u> :

4. Input information about the paper you want to register. To adjust settings that are already registered, select the names of the paper from the list in **Registered user-defined paper**.

5. Click **Sensor Adjustment**.

aper <u>N</u> ame:	<new paper=""></new>				Paper Information				
egistered use	r-de <u>f</u> ined paper:				Media Fo <u>r</u> m:	Die-cut Label	(Black Mark)		~
	000 x 6.000in 6 105.0 x 148.0mm 6ize 4.000 x 6.000in			<u>A</u> dd Overwrit <u>e</u>	Media <u>T</u> ype: Media <u>W</u> eight:	Plain label Medium Light	t (96-140 μm)		~
				<u>D</u> elete	Sensor settings:	1. User setting			~
							Sensor Adjust Printer infor <u>m</u> ation		
se Init • millimeters	; Oinch		•	*	Label length(Y			1320.8	
rint position (correction	2.0] Paper	<pre></pre>	Label width(X)	2.0		126.0 25.4	
	0.0 🔹 [-2.0	2.0] Paper Feed Direction	Θ_{A}	Cardboard wid	th 101	2	130.0	
Out position co	orrection	0.5	3		Gap	3.0	▲ [3.0	10.0	

Sensor Adjustment appears if the following conditions are met.

- The Media Form is one of the following: Continuous Paper (Black Mark), Die-cut Label (Gap), Die-cut Label (Black Mark), Continuous Label (Black Mark)
- The **Ports** of the printer driver is USB or standard TCP/IP port

Before performing Sensor Adjustment, make sure that the printer is "online".

6. Click Next.

	Starts Black Mark	sensor	adjustment.	
	Information of th	e paper	to be adjusted is as follows.	
	Paper Name		Label BM1 120x100	
	Paper form	1	Die-cut Label (Black Mark)	
	Label length		111.3mm	
	Label width		97.6mm	
///	Gap		3.0mm	
	Set applicable pa	per to th	e printer, and click [Next].	
			<back next=""></back>	Cancle

- Before performing the next steps of this procedure, make sure that paper is loaded.
- If there are no paper size settings configured on the control panel, it may cause a paper size mismatch on the device. Pressing the **OK** button on the control panel overwrites the device paper size setting with the paper size setting in the printer driver.

7. Select a registration location for the adjustment, and then enter a registration name.

Sensor Adjustment					×
		the registration he registration o	destination. lestination for adjustn	nent values from the	e following list.
	No.	Status	Registered name		
	1 2 3 4 5 6 7 8 9 10 Registe	Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered	User settings 1 User settings 2 User settings 3 User settings 5 User settings 5 User settings 6 User settings 8 User settings 8 User settings 10		
	Input ti	he registered nar	me, and click [Next].		
			< <u>B</u> ack	<u>N</u> ext>	Cancel

You can enter up to eight alphanumeric English characters for the registration name.

8. Click **Next**. This starts the sensor adjustment and displays a wait message.

Sensor Adjustment						×
		the registration on the registration of the registration d		ment values from the	e following list.	
		L.	Registered name User settings 2 User settings 2 User settings 4 User settings 4 User settings 6 User settings 6 User settings 8 User settings 9 User settings 10 User settings 10 User settings 10 User settings 4 User settings 10 User settings 10	Next>	Cancel	
			<u>ND</u> ack	<u>N</u> ext >	Cancer	
Sensor Adjustment						×
	Sensor	being adjusted.				
	Wait fo	r a while until se	nsor adjustment is c	omplete.		
			<bac<u>k</bac<u>	<u>N</u> ext>	Cancel	

9. When the completion screen appears, click **Complete**.

Regist	ered with the foll	owing name.	
No.	Status	Registered name	100
1 3 4 5 6 7 8 9 10	Registered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered	190MM User settings 2 User settings 4 User settings 4 User settings 5 User settings 5 User settings 7 User settings 8 User settings 9 User settings 10	

The results of adjusting the sensor are registered on the printer. In **Sensor settings** in **User-defined paper** in the printer driver, you can specify the number registered in the printer for the adjustment results and whether to apply it when printing. By standardizing the registration numbers of the sensor adjustment results, you can get the same print results by specifying the same number in **Sensor settings** in the printer driver for any printer. This is useful when printing on the same media on multiple printers.

- 10. To register new settings, click **Add** or click **Overwrite** to select paper that is already registered.
- 11. Click **OK** as many times as necessary to exit the "Printing preferences" screen.
- 12. Open the file to be printed.
- 13. Specify a registered paper size, and then print.

If You Cannot Set the Sensors from the Printer Driver

If you cannot set the sensors from the printer driver, then set them from the control panel.

Black mark sensor

- 1. Confirm the sensor position
- 2. Configure the sensor type

Media form = Continuous Paper (Black Mark), Die-cut Label (Black Mark), or Continuous Label (Black Mark)

3. Configure the paper size

Paper Size = Custom

X Dimension = Input the "label width"

For die-cut labels (black marks):

- Paper length = Input the "label length"
- Gap Length = Input the "gap length"

Otherwise:

Black mark interval = Input the "length between black marks"

4. Execute sensor calibration Sensor calibration \rightarrow Execute

Gap sensor

- 1. Confirm the sensor position
- 2. Configure the sensor type Media form = Die-cut Label (Gap)
- 3. Configure the paper size

Paper Size = Custom

X Dimension = Input the "label width"

Y Dimension = Input the "label length"

Gap Length = Input the "gap length"

Execute sensor calibration
 Sensor calibration → Execute

Calibrating the Black Mark Sensor

You can adjust the black marks on roll paper using the black mark sensor.

Here, we will show the method when Continuous Label (Black Mark) are used.

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press 8, 9, 1 (function numbers), and then press the OK button.

3. Select 6. Continuous Label (Black Mark), and then press the OK button.



- 4. Press the **ON LINE** button to return to the standby screen.
- 5. Press the **Fn** key, and then press the following buttons: **9**, **0**, **OK**.

Function Number	
90.	
Enter 1-3digit Number	

6. On the Paper Size menu, select **Custom**, press the **OK** button, and then press the **ON LINE** button. The display will return to the standby screen.



7. Press the **Fn** key, and then press the following buttons: **9**, **1**, **OK**.

Function Number			
91 <mark>.</mark> Enter 1-3digit	Number		

8. Use the numeric keypad to enter the label width, press the **OK** button, and then press the **ON LINE** button. The display will return to the standby screen.



9. Press the **Fn** key, and then press the following buttons: **8**, **9**, **0**, **OK**.

Function Number	
890 ₪ Enter 1-3digit Number	

10. Select Black Mark Interval from Unwinder Config, and then press the OK button.



11. Use the numeric keypad to enter the Black Mark Interval, press the **OK** button, and then press the **ON LINE** button.

The display will return to the standby screen.



12. Press the **Fn** key, and then press the following buttons: **8**, **9**, **3**, **OK**.

Function Number	
893¶ Enter 1-3digit Number	

13. Select the setting number of the sensor to be configured, and then press the **OK** button.



14. Select Execute Calibration, and then press the OK button.

Set1 : <unregistered></unregistered>	1/1 Page
1 Execute Calibration	
Use Online button to return to stand	by screen.

15. Enter the sensor calibration name, and then press the **OK** button.



You can leave the name blank, if you want.

16. If an execution confirmation screen appears, select **Yes**.



17. This executes sensor calibration.



18. After sensor calibration is complete, press the **OK** button.



Calibrating the Gap Sensor

You can adjust the distance between die cut labels using the gap sensor.

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press 8, 9, 1 (function numbers), and then press the OK button.

Function Number	
891	
Enter 1-3digit Number	

3. Select **3. Die-cut Label (Gap)**, and then press the **OK** button.



4. Press the **ON LINE** button to return to the standby screen.



5. Press the **Fn** key, and then press the following buttons: **9**, **0**, **OK**.

Function Number	
90 . Enter 1-3digit Number	

6. On the Paper Size menu, select **Custom**, press the **OK** button, and then press the **ON LINE** button. The display will return to the standby screen.



7. Press the **Fn** key, and then press the following buttons: **9**, **1**, **OK**.

Function Number	
91 0 Enter 1-3digit Number	

8. Use the numeric keypad to enter the label width, press the **OK** button, and then press the **ON LINE** button. The display will return to the standby screen.



9. Press the **Fn** key, and then press the following buttons: **9**, **2**, **OK**.

Function Number	
92 0 Enter 1-3digit Number	

10. Use the numeric keypad to enter the label length, press the **OK** button, and then press the **ON LINE** button. The display will return to the standby screen.



11. Press 8, 9, 0 (function numbers), and then press the OK button.

Function Number	
890 Enter 1-3digit Number	

12. Select Gap Length from Unwinder Config, and then press the OK button.



13. Use the numeric keypad to enter the gap length, press the **OK** button, and then press the **ON LINE** button. The display will return to the standby screen.



14. Press the **Fn** key, and then press the following buttons: **8**, **9**, **3**, **OK**.

Function Number	
893	
Enter 1-3digit Number	

15. Select the setting number of the sensor to be configured, and then press the **OK** button.



16. Select Execute Calibration, and then press the OK button.



17. Enter the sensor calibration name, and then press the **OK** button.



You can leave the name blank, if you want.

18. If an execution confirmation screen appears, select Yes.



19. This executes sensor calibration.



20. After sensor calibration is complete, press the **OK** button.



Detecting the Interval between Pages

Detecting the Interval between Pages with the Printer Driver

You can use the following procedure, from the printer driver, to register the paper gap and black mark interval on the device. Registering these settings improves your printing results. However, it does waste approximately 10 sheets of paper.

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the **QL-300** icon, and then select **Printing preferences**.
- 4. On the **Setup** tab, click **User-defined paper**.

5. After confirming that the paper name you entered in the "Paper Name" box is shown under **Registered user-defined paper**, click **Close**.

ser-defined paper				×
Paper Name: Label BM1 120x100		Paper Information		
Registered user-defined paper:		Media Fo <u>r</u> m:	Die-cut Label (Gap)	\sim
New paper Continuous 4.000 x 6.000in Continuous A6 105.0 x 148.0mm	Add	Media <u>T</u> ype:	Plain label	~
User Defined Size 4.000 x 6.000in Label BM1 120x100 97.6 x 101.6mm	Overwrit <u>e</u>	Media <u>W</u> eight:	Medium Light (96-140 µm)	~
	Delete	Sensor settings:	1. User settings 1	~
			Sensor Adjustment	
			Printer information acquisit	ion
Size Unit @ millimeters ○ inch Print position correction X position: 0.0		Label length(Y) Label width(X) Right gap Cardboard widt Margin Gap	97.6 (25.4 12 2.0 (2.0 25	6.0] .4]
	1		Close	Help

6. For **Paper settings**, select the paper settings you registered, and then click **Paper** interval detection.

	<u>F</u> avorites				
1	Current setting		~	<u>S</u> ave	Management
2	Paper se <u>t</u> tings:	Label BM1 120x1	00 97.6 x 101.6mm	~	User- <u>d</u> efined paper
3		Format:	Die-cut Label (Gap)		
		Media Type:	Plain label		Paper interval detection.
		Media Weight:	Medium Light (96-14	0 μm)	
3 4		Sensor Setting:	1. User settings 1		
5	Orientation :	Portrait) Landscape	180°	Mirror Print

Paper interval detection is displayed if the following conditions are met.

The Media Form is one of the following:

- Continuous Paper (Black Mark)
- Die-cut Label (Gap)
- Die-cut Label (Black Mark)
- Continuous Label (Black Mark)

If **Paper interval detection** does not appear, return to step 4 of this procedure.

7. Confirm the displayed paper information, and then click **Measure**.

Check Media Gap			×
	Check media gap		
	The information of	f the adjust paper is as follows.	
	Paper Name	: Label BM1 120x100	
	Paper form	: Die-cut Label (Gap)	
	Label length	: 101.6mm	
	Label width	: 97.6mm	
	Gap	: 3.0mm	
	Please set the coi	ncident paper in printer then push [Calculate] button.	
		Measur <u>e</u> Cancle <u>H</u> el	p

This starts checking the media pitch and closes the dialog box.

Note: If you change to another type of paper or restart the printer, you should configure this setting again.

- 8. Click **OK** as many times as necessary to exit the **Printing preferences** screen.
- 9. Open the file to be printed.
- 10. Specify a registered paper size, and then print.

Detecting the Interval between Pages with the Control Panel

Detect the paper gap and black mark interval from the control panel.

1. For black mark media, execute steps 1 to 11 in "Calibrating the Black Mark Sensor" on page 123.

For gap media, execute steps 1 to 13 in "Calibrating the Gap Sensor" on page 127.

- 2. Press the **Fn** key.
- 3. Press **8**, **9**, **4** (function numbers) and then press the **OK** button.

Fun	ction Number	
	894.	
	Enter 1-3digit Number	

4. Select **Execute**, and then press the **OK** button to start paper interval detection and close the dialog box.

Function Number	Check Media Pitch	1/1 Page
894 .	1 Execute	
Enter 1-3digi		
	Use Online buttor	n to return to s

Printing

After loading the paper, use the computer to open the file you want to print. Next, use the printer driver to select the **Paper Size** and **Paper Weight**, and then print.

Note: When printing on label paper for the first time, execute **Sensor Adjustment** before printing.

Printing from the Windows Printer Driver

Here, we will show how to print an open WordPad file as an example.

- 1. Select Page Setup in the File menu.
- 2. Select the paper size and print orientation, and then click **OK**.
- 3. On the **File** menu, click **Print > Print**.

4. Click **Preferences**.

If you are using the Windows PCL printer driver, the following window will open.

1	Eavorites Current setting(De	fault antima)	~	Save	Management
TIT	Current setting(De	erault setting)	Ť	<u>3</u> dVE	<u>M</u> anagement
2	Paper se <u>t</u> tings:	Continuous 4.0	00 x 6.000in	\sim	User- <u>d</u> efined paper
Pape 3		Format:	Continuous Paper		
ar Fee		Media Type:	Plain		
Paper Feed Direction		Media Weight:	Medium Light (96-140	υ μm)	
^{tion} 5	Orientation :	Portrait	🗌 Landscape	1 <u>8</u> 0°	Mirror Print
6	C <u>o</u> pies:	1	Co <u>l</u> late		Print in reverse order
0		🗹 To prioritize	collation specified by app	plication	
7	<u>C</u> ut Mode:	Only cut at the	end of job	~	
8					
9	Quality:	Fine / Detail (12	200 x 1200)	~	Photo Enhance
		Scree <u>n</u> :	Prioritize resolution	\sim	

If you are using the Window PS printer driver, the following window will open.

1	Eavorites	efault setting)
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in Viser-defined paper
Paper 3		Format: Continuous Paper Media Type: Plain
Paper Feed Direction		Media Weight: Medium Light (96-140 μm)
^{ction} 5	Orientation :	Portrait Candscape 120° Mirror Print
6	C <u>o</u> pies:	1 Collate Print in rgverse order
7	<u>C</u> ut Mode:	Only cut at the end of job
8		
9	Quality:	Fine / Detail (1200 x 1200)
		Scree <u>n</u> : Fine 🔻

5. On the **Setup** tab, configure **Paper settings**.

Configure the **Cut Mode** setting on the **Setup** tab as required.

- 6. When the settings are complete, click **OK** in the "Setup" screen.
- 7. Click **Print** in the "Print" screen to print.

Canceling a Print Job

Use the procedure below to cancel a print job from the printer's control panel.

1. On the control panel, press the **CANCEL** button.



2. If a verification message appears, select **Yes**, and then press the **OK** button.

Print Function Settings

Printer Driver Functions Table

This section explains the convenient functions when printing from a PC.

Explanation of Functions

Windows PCL Printer Driver Functions

Setup Tab

		Current antifant	✓ Save	Management
TI	-	Current setting	~ <u>3</u> dve	<u>M</u> anagement
2	2	Paper se <u>t</u> tings:	Label TX 101.6 x 76.2mm	User- <u>d</u> efined paper
Paper Feed Direction	3		Format: Continuous Paper (Black Mark) Media Type: Plain label Media Weight: Medium Light (96-140 µm)	aper interval detection
d Diree	1		Sensor Setting: 1. User settings 1	
tion 5	5	Orientation :	Portrait Candscape I80°	Mirror Print
6	5	C <u>o</u> pies:	1 Collate	Print in r <u>e</u> verse order
7	7	<u>C</u> ut Mode:	Only cut at the end of job \sim	
٤	3			
g	2	<u>Q</u> uality:	Fine / Detail (1200 x 1200) 🗸	P <u>h</u> oto Enhance
	=		Scree <u>n</u> : Prioritize resolution ~	

Item	Description
Example	Shows what printing results will be based on current settings. This example is just an approximation and does not indicate the exact actual number of print pages and cut positions.
Paper settings	Specifies, from among registered paper settings, which one should be applied for printing.
Orientation	Specifies the print orientation.
Copies	Specifies the quantity to be printed.
Cut Mode	Specifies the timing to cut roll paper when cutting and printing on it.

Item	Description
Quality	Specifies the resolution during printing.
Screen	Specifies the halftoning available with the device.
User-defined paper	Click when using the driver to register paper settings to be used for printing.
Paper interval detection	Before printing to black mark or die-cut labels, click to execute learning on the device to improve the print position before starting. Note that executing this function will cause some paper to be used.
About	Displays the printer driver version information.
Default	Restores default settings.

User-defined paper

aper <u>N</u> ame:	<new paper=""></new>				Paper Information				
egistered user-	de <u>f</u> ined paper:				Media Fo <u>r</u> m:	Die-cut Label (Black N	1ark)		`
	00 x 6.000in 105.0 x 148.0mm ze 4.000 x 6.000in			<u>A</u> dd Overwrit <u>e</u>	Media <u>T</u> ype: Media <u>W</u> eight:	Plain label Medium Light (96-140) μm)		
				<u>D</u> elete	Sensor settings:	1. User settings 1 Sen	isor Adjustm	ent	`
						Printer in	nfor <u>m</u> ation a	cquisition	
e Init					_				
millimeters	◯inch		_ ▲		Label length(Y) 111.3 🖨	[12.7	1320.8	
rint position co	rection				Label width(X)	97.6	[25.4	126.0	
· _			Pa		Right gap	2.0	[2.0	25.4	
position: 0.		2.0] per Fe		Cardboard wid	lth 101.6 🚔	[29.4	130.0	
p <u>o</u> sition: 0.	0 🗧 [-2.0	2.0	Paper Feed Direction	₩	Hargin	2.12			
ut position co	rrection		sction		Gap	3.0 🔺	[3.0	10.0	
) 🚔 [-0.5	0.5	1						

Item	Description
Paper Name	Enter the name of the paper settings you want to register.
Registered user-defined paper	Shows a list of paper settings that have been registered

Item	Description
Size	Specifies either millimeters or inches as the unit for input values.
Print position correction	Adjusts the print start position on the paper edge.
Cut position correction	Adjusts the cut position when cutting and printing roll paper
Media Form	Specifies the paper setting type to be registered. Size input items change in accordance with this setting.
Media Type	Specifies the paper type.
Media Weight	Specifies the paper thickness.
Sensor settings	Specifies the settings, from among those registered on the device, to be used for printing.
Sensor Adjustment	Click to calibrate the gap of black mark or die-cut labels, and register the results as device sensor settings. This button is not displayed for media forms that do not require calibration.
Printer information acquisition	Obtains, from devices, the names of settings registered as sensor settings and the names of user types registered as paper types, and reflects them in the sensor settings and paper type list on the printer driver.

Color Tab

1	Current setting	✓ Save Manageme
-	Current setting	* <u>Save</u> <u>Manageme</u>
2	<u>C</u> olor Mode:	 Color
3		Automatic V Detail
		Always create 100% black (K) toner
4		○ Monochrome
5		Ma <u>n</u> ual settings
6	Spot Color:	Do not use
7		Spot color toner quantity adjustment
8	Toner Saving:	Off
9	Touci parmidi	
=		Do not save 100% black toner

Item	Description
Color Mode	Selects either color printing or monochrome printing.When color is selected, clicking Detail displays the "Detail" dialog box, which can be used to configure detailed color printing settings.
Spot Color	Specifies how white toner should be used for printing. This item available only on the QL-300s.
Toner Saving	Specifies the print density when economizing on toner.

Overlays Tab

Exam	1	Eavorites Current setting		✓ Save	Management
	2	Do not use overlay prin	nt	~	
Paper Feed Direction	3				E Parti a
eed Dir	4	Name	ID	Description	<u>E</u> dit list
ection	5				<u>T</u> est Print
	6				
	7				
	8				
	9				
	\parallel				
		_abel"			

Item	Description
Overlays	Specifies whether or not a form should be overlaid on the document to be printed, or whether the document should be registered as a new form in the device.

Extend Tab

Setup Exam		verlays Extend					
Î	1	Eavorites	~	Save	Management		
				<u>_</u>	<u></u>		
	2	Watermarks	You can print data create	d by an application with a w	atermark over it.		
^o aper F	3						
Paper Feed Direction	4	Fon <u>t</u> s	Fonts Makes settings related to TrueType fonts and printer fonts.				
otion	5						
	6						
	7						
	8						
	9						
	\square						
Ø	Quick			Advan <u>c</u> ed	Defa <u>u</u> lt		

Item	Description
Watermarks	Sets when implementing stamp printing.

Item	Description
Fonts	Configures TrueType and printer font settings.

Windows PS Printer Driver Functions

Advanced Tab

Advanced Setup Color Overlays Extend	
📾 QuickLabel QL-300 PS Advanced Document Settings	
Image Color Management ICM Method: <u>ICM Disabled</u>	
ICM Intent: Pictures	
TrueType Font: Substitute with Device Font	
bound Document Options	
Advanced Finling Features. <u>Enabled</u> PostScript Options	
Printer Features	
۲ (III) کې د د د د د د د د د د د د د د د د د د	
	OK Cancel Apply

Item	Description
ICM Method	Specifies the ICM process.
ICM Intent	Specifies the intent of the ICM. Converts printer colors to be appropriate for the specified intent.
TrueType Font	Specifies whether to use the device fonts, if available, or to download fonts included in the print data as software fonts.
PostScript Options	Specifies the various settings for creating PostScript data.

Setup Tab

Examp		Eavorites			
T.	1	Current setting(De	efault setting) Save Management		
L	2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in		
Paper	з		Format: Continuous Paper Media Type: Plain		
Paper Feed Direction	4		Media Weight: Medium Light (96-140 µm)		
ction	5	Orientation :	● Portrait ○ Landscape □ 180° □ Mirror Print		
	6	C <u>o</u> pies:	1 📩 Collate Print in reverse order		
	7	<u>C</u> ut Mode:	Only cut at the end of job		
	8				
	9	Quality:	Fine / Detail (1200 x 1200)		
			Scree <u>n</u> :		
			A <u>b</u> out Defa <u>u</u> lt		

Item	Description
Example	Shows what printing results will be based on current settings. This example is just an approximation and does not indicate the exact actual number of print pages and cut positions.
Paper settings	Specifies, from among registered paper settings, which one should be applied for printing.
Orientation	Specifies the print orientation.
Copies	Specifies the quantity to be printed.
Cut Mode	Specifies the timing to cut roll paper when cutting and printing on it.
Quality	Specifies the resolution during printing.
Screen	Specifies the halftoning available with the device.
User-defined paper	Click when using the driver to register paper settings to be used for printing.

Item	Description
Paper interval detection	Before printing to black mark or die-cut labels, click to execute learning on the device to improve the print position before starting. Note that executing this function will cause some paper to be used.
About	Displays the printer driver version information.
Default	Restores default settings.

User-defined paper

Paper <u>N</u> ame: <new paper=""></new>	Paper Information	
Registered user-de <u>f</u> ined paper:	Media Fo <u>r</u> m:	Continuous Paper 👻
New paper Continuous 4.000 x 6.000in Continuous A6 105.0 x 148.0mm User Defined Size 4.000 x 6.000in	Add Overwrit <u>e</u> <u>D</u> elete <u>Add</u> Media <u>Iype</u> : Media <u>W</u> eight:	Plain • Medium Light (96-140 µm) •
Ize Image: Second	Paper length() Paper width(2) Top/Bottom mai	

Item	Description
Paper Name	Enter the name of the paper settings you want to register.
Registered user-defined paper	Shows a list of paper settings that have been registered
Size	Specifies either millimeters or inches as the unit for input values.
Print position correction	Adjusts the print start position on the paper edge.
Cut position correction	Adjusts the cut position when cutting and printing roll paper
Item	Description
---------------------------------	--
Media Form	Specifies the paper setting type to be registered. Size input items change in accordance with this setting.
Media Type	Specifies the paper type.
Media Weight	Specifies the paper thickness.
Sensor settings	Specifies the settings, from among those registered on the device, to be used for printing.
Sensor Adjustment	Click to calibrate the gap of black mark or die-cut labels, and register the results as device sensor settings. This button is not displayed for media forms that do not require calibration.
Printer information acquisition	Obtains, from devices, the names of settings registered as sensor settings and the names of user types registered as paper types, and reflects them in the sensor settings and paper type list on the printer driver.

Color Tab

duickL		300 PS Printing Prefer Color Overlays E	ences		×
- Examp	1	Eavorites	Default setting) 🔹	<u>S</u> ave	Management
70	2	<u>C</u> olor Mode:	Olor Automatic		
Paper Feed Direction	3 4		Ma Automatic		Detai <u>l</u>
irection	5		Monochrome		
	6				
	7				
	8 9	<u>T</u> oner Saving:	Off	•	
			🔲 Do not save 100% blac <u>k</u> toner		
Ar	2uick	Label [®] va Division	A <u>d</u> vance	Color S <u>w</u> atch	Default
				ОК	Cancel <u>A</u> pply

Item	Description
Color Mode	Selects either color printing or monochrome printing. When you select Color , and then select Simple Adjustment or Graphic Pro , clicking Detail displays the Simple Adjustment Details dialog box, which can be used to configure detailed color printing settings.
Spot Color	Specifies how white toner should be used for printing. This item available only on the QL-300s.
Toner Saving	Specifies the print density when economizing on toner.

Overlays Tab

♠∣	1	Eavorites	ault setting)	▼ <u>S</u> ave	<u>M</u> anagement
	2	Do not use overlay	print	•	
Paper F	3	Name	Form Name	Description	Edit list
Paper Feed Direction	4	Name	Form Name	Description	
ction	5				Test Print
	6				
	7				
	8				
	9				
_					

Item	Description
Overlays	Specifies whether or not a form should be overlaid on the document to be printed, or whether the document should be registered as a new form in the device.

Extend Tab

Examp	ole	Eavorites
	1	Current setting(Default setting)
	2	Watermarks You can print data created by an application with a watermark over it.
aper F	3	
Paper Feed Direction	4	Drawing position adjustment Adjusts the position of the drawing data created in the printer driver.
lôn	5	
	6	
	7	
	8	
	9	
(2)	2uick	Label' Advan <u>c</u> ed Defa <u>u</u> lt

Item	Description	
Watermarks	Sets when implementing stamp printing.	

Item	Description
Drawing position adjustment	Specify if you want to adjust the position of image data before printing.

Control Panel Menu Functions Table

Device Setup Screen

Item	Description	
Configuration	View device information (total number of sheets, remaining wear item quantity, system information, etc.)	
Print Information	Print the settings, usage report, error log, color profile list, and user media lists for this machine.	
Menus	Used to configure system settings, print position adjustment, color, an other settings.	
Admin Setup	Administrator sets the network settings, changes passwords, etc.	
Print Statistics	Check the print use status of the user.	
Calibration	Used to adjust the color densities and shades, color misalignment, etc.	
Boot Menu	Set whether or not to restart the printer when a malfunction occurs in the HDD or file system, etc.	

Configuration

Item			Description
Feeder Count	Unwinder	nnnnn	Displays the total print quantity for the unwinder. (This is the number of sheets converted into the A6 size paper from the length of paper fed from the unwinder.)

Item			Description
Supplies Life	Cyan Print Cartridge	Remaining nnn%	Shows the remaining service life (%) of each color's print cartridge.
	Magenta Print Cartridge	Remaining nnn%	White is displayed with QL-300s only.
	Yellow Print Cartridge	Remaining nnn%	
	Black Print Cartridge	Remaining nnn%	
	White Print Cartridge	Remaining nnn%	
	Waste Toner Box	Remaining nnn%	Shows the remaining service life (%) of the waste toner box.
	Belt	Remaining nnn%	Shows the remaining service life (%) of the belt unit.
	Fuser	Remaining nnn%	Shows the remaining service life (%) of the fuser unit.

	Item		Description
Network	Printer Name	********* ********** ******	Shows the printer name used by the DNS and Network PnP.
	Short Printer Name	***** ****	Displays the short printer name.
	IPv4 Address	XXX.XXX.XXX	Shows the IP address. When TCP/IP is enabled, shows the setup of the following control panel setting Admin Setup > Network Setup > IPv4 Address.
	Subnet Mask	xxx.xxx.xxx	Displays the subnet mask. When TCP/IP is enabled, shows the setup of the following control panel setting Admin Setup > Network Setup > Subnet Mask.
	Gateway Address	xxx.xxx.xxx	Displays the gateway address. When TCP/IP is enabled, shows the setup of the following control panel setting Admin Setup > Network Setup > Gateway Address.
	MAC Address	xx:xx:xx: xx:xx:xx	Shows the MAC address.
	Network FW Version	xx.xx	Shows the network firmware version.
	Web Remote Version	xx.xx	Shows the web page version.
	IPv6 Address (Local)	XXXX:XXXX:XXXX:XXXX: XXXX:XXXX:XXXX:XX	Shows the (local) IPv6 address. This menu is not displayed when TCP/IP is disabled or when the IP version is IPv4.
	IPv6 Address (Global)	XXXX:XXXX:XXXX:XXXX: XXXX:XXXX:XXXX:XX	Shows the (global) IPv6 address. This menu is not displayed when TCP/IP is disabled or when the IP version is IPv4.

	Item		Description
System	System Serial Number		Displays the serial number.
	Asset Number	xxxxxxxxx xxxxxxxxx xxxxxxxxxxx	Displays the asset number of the printer manager.
	Lot Number	XXXXXXXXXXXXX XXXXXXXXXXXXX XX	Displays the lot number.
	Firmware Version	xxx.xx_x_x	Shows the version number of FirmSuite.
	CU Version	XX.XX	Displays the control unit firmware version.
	PU Version	XX.XX.XX	Displays the printer unit firmware version.
	RAM	ххМВ	Shows the total availability of all mounted RAM.
	Flash Memory	xxMB[Fxx]	Displays the total availability of all flash memory and flash system versions installed.
	HDD	xx.xxGB [Fxx]	Displays the HDD size and file system version installed.
	Date and Time	mm/dd/yyyy or dd/mm/yyyy	Displays the current date and time.

Print Information

Item			Description
Configuration		Execute	Prints the device setup details.
Demo Page	DEMO1	Execute	Prints the demo pages.
File List		Execute	Prints the file list.
Usage Report		Execute	Prints the total print results. Not displayed if Disable is set for the control panel Print Statistics > Usage Report item.

Item		Description
Error Log	Execute	Prints the error log.
Color Profile List	Execute	Prints the color profile list.
User Media List	Execute	Prints the user media list. Displayed when the user media is registered.
Test Print-1	Execute	Prints the patterns for analyzing the print quality.
Test Print-2	Execute	Prints the patterns for analyzing the CMYK print quality.
Test Print-3	Execute	Prints the patterns for analyzing the status of the print cartridges.
Test Print-4	Execute	Prints the patterns for analyzing print quality of the spot colors. Displayed with QL-300s only.
Cleaning Page	Execute	Prints the toner-free white sheet to remove dirt from the surface of the fuser belt in the fuser unit.

Menus

Unwinder Config

Item	Value	Description
Media Form	Continuous Paper Continuous Paper (Black Mark) Die-cut Label (Gap) Die-cut Label (Black Mark) Continuous Label Continuous Label (Black Mark)	Specifies the shape of the roll paper.

Item		Value	Description
Liner Width Config	Liner Width Mode	Auto Custom	Specifies the mode for setting the width of the label's liner. Auto: The width of the liner is set given that the label is in the center of the liner. Custom: The width of the liner is input and the left gap is calculated given that the left and right gaps are different.
	Liner Width	29.4 millimeter (1.16 inch) 105.6 millimeter (4.16 inch) 109.0 millimeter (4.29 inch) 130.0 millimeter (5.12 inch)	Inputs the width of the liner. Appears when the Liner Width Mode is "Custom". The initial values vary depending on your operating environment.
	Right Gap	2.0 millimeter (0.08 inch) 25.4 millimeter (1.00 inch)	Specifies the distance from the right edge of the label to the right edge of the liner.
Paper Size		A6 4x6 inch Custom	Sets the size of the paper for the unwinder. The initial values vary depending on your operating environment.
X Dimension		25.4 millimeter (1.00 inch) 101.6 millimeter (4.00 inch) 105.0 millimeter (4.13 inch) 126.0 millimeter (4.96 inch)*	Sets the width of the custom paper sizes for the unwinder. Sets the dimension perpendicular to the paper feed direction. * 130.0 mm (5.12 inch) if the Media Form is Continuous Paper or Continuous Paper (Black Mark) The initial values vary depending on your operating environment.

Item	Value	Description
Y Dimension	12.7 millimeter (0.50 inch) 101.6 millimeter (4.00 inch) 148.0 millimeter (5.83 inch) 152.4 millimeter (6.00 inch) 1320.8 millimeter (52.00 inch)	Sets the length of the custom paper sizes for the unwinder. Sets the same direction as for the dimension in the paper feed direction. If the setting is 101.6 mm (4.00 inch) or lower, then the set page length is handled as a whole-number multiple of the actual length of the page such that it exceeds 101.6 mm (4.00 inch). The initial values vary depending on your operating environment.
Black Mark Interval	15.9 millimeter (0.63 inch) 101.6 millimeter (4.00 inch) 151.2 millimeter (5.95 inch) 155.6 millimeter (6.13 inch) 1324.0 millimeter (52.13 inch)	Sets the interval of the marks on custom paper for the unwinder. Sets the same direction as for the dimension in the paper feed direction. If the setting is 104.8 mm (4.13 inch) or lower, then the set page length is handled as a whole-number multiple of the actual length of the page such that it exceeds 101.6 mm (4.00 inch). The initial values vary depending on your operating environment.
Gap Length	3.0 millimeter (0.12 inch) 10.0 millimeter (0.39 inch)	Sets the interval for labels. Sets the same direction as for the dimension in the paper feed direction.

Item	Value	Description
Adjust Cut Position	-0.5 millimeter (-0.02 inch) 0.0 millimeter (0.00 inch) +0.5 millimeter (+0.02 inch)	Specifies the compensation value for the distance from the print completion position to the cut position (beginning of next label). (Specifies margin on following edge). If you specify a negative value, cutting is done at a short position.
Media Type	Plain Plain Labels Glossy Labels Film Labels1 Film Labels2 Film1 Film2 USERTYPE1 USERTYPE3 USERTYPE3 USERTYPE5 USERTYPE6 USERTYPE6 USERTYPE7 USERTYPE7 USERTYPE7 USERTYPE10 USERTYPE11 USERTYPE12 USERTYPE13 USERTYPE13 USERTYPE14 USERTYPE15 USERTYPE16 USERTYPE17 USERTYPE18 USERTYPE18 USERTYPE19 USERTYPE19 USERTYPE20	Sets the type of the paper for the unwinder. USERTYPE 1 to 20 are displayed when they are registered.
Media Weight	Light Medium Light Medium Medium Heavy Heavy Ultra Heavy1 Ultra Heavy2 Ultra Heavy3	Sets the thickness of the paper for the unwinder.

	Item			Value	Description
Sensor Setting				Set1 : Set2 : Set3 : Set4 : Set5 : Set6 : Set7 : Set8 : Set9 : Set10 :	Sets the sensitivity of the gap sensor or black mark sensor. Only the adjusted sensor setting is displayed. Appears when the Media Form is something other than Continuous Paper or Continuous Label.
Sensor Calibratio n	Set1 : Set2 : Set3 : Set4 : Set5 : Set5 : Set6 : Set7 : Set8 : Set9 : Set10 :	Execute Calibration		Execute	Executes calibration of the gap sensor or black mark sensor.
Sensor Calibratio n	Set1 : Set2 : Set3 : Set4 : Set5 : Set6 : Set6 : Set7 : Set8 : Set9 : Set10 :	Adjust Slice Level	Reflective Sensor in Unwinder	0 - 1023	Fine tunes the sensitivity of the reflective sensor in the unwinder that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the black mark sensor is used.
Sensor Calibratio n	Sensor Set1 : Adjust Reflective Calibratio Set2 : Slice Sensor in		0 - 1023	Fine tunes the sensitivity of the reflective sensor in the device that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the black mark sensor is used.	

	Item		Value	Description	
Sensor Calibratio n	Set1 : Set2 : Set3 : Set4 : Set5 : Set5 : Set6 : Set7 : Set8 : Set9 : Set10 :	Adjust Slice Level	Transmiss ion Sensor in Unwinder	0 - 1023	Fine tunes the sensitivity of the transmission sensor in the unwinder that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the gap sensor is used.
Sensor Calibratio n	Set1 : Set2 : Set3 : Set4 : Set5 : Set5 : Set6 : Set7 : Set8 : Set9 : Set10 :	Adjust Slice Level	Transmiss ion Sensor in Printer	0 - 1023	Fine tunes the sensitivity of the transmission sensor in the device that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the gap sensor is used.
Sensor Calibratio n	Set1 : Set2 : Set3 : Set4 : Set5 : Set6 : Set6 : Set7 : Set8 : Set9 : Set10 :	Change Name		Execute	You can change the name of the specified setting numbers. You can use up to eight characters of single-byte upper case English and numbers.
Sensor Calibratio n	Set1 : Set2 : Set3 : Set4 : Set5 : Set5 : Set6 : Set7 : Set8 : Set9 : Set10 :	Reset Settir	ng	Execute	Initializes the content of the specified setting numbers.
Check Med	ia Pitch	1		Execute	Measures the intervals on the paper. Appears when the Media Form is something other than Continuous Paper or Continuous Label.

Cutter Setup

Item	Value	Description
Cut Mode	Job Collation Specified Interval	Specifies the cutting operation. Job: Cuts at the end of a job. Collation: Cuts at the end of the job and at the end of the job collation. Specified Interval: Cuts in units of the specified number of pages. Cuts at the end of the collation/job.
Cut Interval	1 9999	Sets how many pages are cut each time. Appears when the Cut Mode is "Specified Interval".

Bold indicates factory-set values.

System Adjust

Item	Value	Description
Power Save Time	1 minute 2 minutes 3 minutes 4 minutes 5 minutes 10 minutes 15 minutes 30 minutes 60 minutes	Sets the time until the printer enters power save mode.
Auto Power Off Time	1 hour 2 hours 3 hours 4 hours 8 hours 12 hours 18 hours 24 hours	Sets the time until the printer enters OFF mode from stand-by status.
Clearable Warning	ONLINE Job	Sets the timing until clearable warning display turns OFF.

Item	Value	Description
Timeout InJob	Off 5 seconds 10 seconds 20 seconds 30 seconds 40 seconds 50 seconds 50 seconds 120 seconds 150 seconds 180 seconds 210 seconds 240 seconds 240 seconds 270 seconds	Sets the time from loss of the receipt of data until force-printing. With PS, the job is canceled without printing.
Timeout Local	0 seconds 5 seconds 90 seconds 290 seconds 295 seconds 300 seconds	Sets the time for each port to be kept opened after printing. (Excludes network)
Timeout Network	0 seconds 5 seconds 90 seconds 290 seconds 295 seconds 300 seconds	Sets the time for the network port to be kept opened after printing.
Error Report	On Off	Specifies whether to print error reports when an internal PCL or PS error occurs.
Hex Dump	Execute	Prints received data in hexadecimal dump. Turn off the power to stop printing the hex dump.

Print Adjust

lt	em	Value	Description
Print Position Adjust	X Adjust	0.00 millimeters +0.1 millimeters +2.00 millimeters -2.00 millimeters -0.1 millimeters	Adjusts the overall image print position perpendicularly (horizontally) in the direction of paper feed (0.1 mm intervals).
	Y Adjust	0.00 millimeters +0.1 millimeters +2.00 millimeters -2.00 millimeters -0.1 millimeters	Adjusts the overall image print position in the direction of paper feed (vertically) (0.1 mm intervals).
Paper Edge Detect Mode	P	Mode1 Mode2 Off	Set the action of the controls for the leading edge of the media to avoid image skew and detection position skew of the leading edge of labels. Mode1: For long leading edges, this setting automatically cuts/outputs and then starts printing. For short leading edges, printing just starts. (Applicable for the gap/black mark setting) Mode2: For short or long leading edges, this setting automatically cuts/outputs and then starts printing for both situations. (Applicable for the gap/black mark setting if the leading edge is long. If the leading edge is short, then only the gap setting is applicable.) Off: With this mode, the user straightens the leading edge so paper is not wasted. (Applicable for the gap/black mark setting)

Item	Value	Description
Roll Paper End Detect Mode	Auto Stop Forced Cut	Sets the control for ejecting the trailing edge of the paper to auto, stop feeding, or forced cut. Auto: With this mode, the trailing edge is processed appropriately according to the media. Stop: With this mode, feed is forced to stop when the trailing edge of the paper is detected, regardless of the length or type of media. Forced Cut: With this mode, the system is forced to cut and eject the paper when the trailing edge of the paper is detected, regardless of the length or type of media.
Media Transfer Setting Black	0 +1 +2 +3 -3 -2 -1	Performs fine adjustment if black is faded or tiny white spots appear when printing with the black (K) print cartridge only (when printing with the YMCW print cartridges are raised). Lower the setting value if there are only fewer white spots, or raise the setting value if the high-density portion is thinner.
Media Transfer Setting Color	0 +1 +2 +3 -3 -2 -1	Performs fine adjustment if colors are faded or tiny white spots appear when printing with two or more print cartridges or just the white (W) print cartridge. Lower the setting value if there are only fewer white spots, or raise the setting value if the high-density portion is thinner.

lte	em	Value	Description
SMR Setting	Cyan Magenta Yellow Black White	0 - +3 -6 1	 Compensates for uneven print density due to temperature and humidity, and printing quantity, using indicated color. Raise the setting value if it is blurred. Lower the setting value if the density darkens partially. Continued use with the setting value raised has a risk of printing stains. Continued use with the setting value lowered has a risk of blurring. White is displayed with QL-300s only.
BG Setting	Cyan Magenta Yellow Black White	0 +1 +2 +3 -3 -2 -1	Compensates for print results variation due to differences in the temperature and humidity, using indicated color. Lower the setting value if the underlay is dark. • Continued use with the setting value lowered has a risk of printing stains. White is displayed with QL-300s only.
Drum Cleaning		On Off	Sets whether to implement drum cleaning before printing. The image quality may be improved.
Transfer Roller Cleaning		Execute	Implements cleaning of the 2nd transfer roller unit.
Transfer Setting	Cyan Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for cyan, green and blue toner. Raise the setting value if the high-density portion of cyan, green and blue is thinner.

	ltem		Description
Transfer Setting	Magenta Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for magenta and/or red toner. Raise the setting value if the high-density portion of magenta and/or red is thinner.
Transfer Setting	Yellow Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for yellow toner. Raise the setting value if the high-density portion of yellow is thinner.
Transfer Setting	Black Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for black toner. Raise the setting value if the high-density portion of black is thinner.
Transfer Setting	White Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for white toner. Raise the setting value if the high-density portion of white is thinner. White is displayed with QL-300s only.
DV Roller Cleaning 1		On Off	Adjust the toner disposal threshold. On: Image quality priority Off: Toner life priority
DV Roller Cleaning 2		Mode 1 Mode 2 Off	May be effective against lateral striping caused by variations in ambient temperature and/or humidity. Try mode 2 if desired results are not produced by mode 1.

Admin Setup

To enter this menu, it is necessary to enter the password. The factory default setting of the administrator password is 999999.

Item	Value	Description
TCP/IP	Enable Disable	Enables/disables TCP/IP protocols.
NetBIOS over TCP	Enable Disable	Enables/disables NetBIOS over TCP/IP. Appears when Enable is set on the control panel for TCP/IP.
IP Address Set	Auto Manual	Specifies whether to request the IP address from the DHCP server. Appears when Enable is set on the control panel for TCP/IP.
IPv4 Address	XXX.XXX.XXX	Sets the IP address. Appears when Enable is set on the control panel for TCP/IP. Appears when Manual is set on the control panel for IP Address Set.
Subnet Mask	xxx.xxx.xxx	Sets the subnet mask. Appears when Enable is set on the control panel for TCP/IP. Appears when Manual is set on the control panel for IP Address Set.
Gateway Address	XXX.XXX.XXX	Sets the gateway address. Appears when Enable is set on the control panel for TCP/IP. Appears when Manual is set on the control panel for IP Address Set.

Network Setup

Item	Value	Description
Web	Enable Disable	Enables/disables access using web browsers. Appears when Enable is set on the control panel for TCP/IP.
Telnet	Enable Disable	Enables/disables access using Telnet. Appears when Enable is set on the control panel for TCP/IP.
FTP	Enable Disable	Enables/disables access using FTP. Appears when Enable is set on the control panel for TCP/IP.
IPSec	Enable Disable	Enables/disables access using IPsec. Appears when Enable is set on the control panel for TCP/IP.
SNMP	Enable Disable	Enables/disables access using SNMP. Appears when Enable is set on the control panel for TCP/IP.
Network Scale	Normal Small	Normal: Printer operates effectively even if connected to a hub with spanning tree functions. However, printer startup time becomes longer when two or three computers are connected to a small-scale LAN. Small: Covers small scale LANs with 2 or 3 PCs to large scale LANs are covered, but if connected to a hub with spanning tree functions, operations may not be effective.
Gigabit Network	Enable Disable	Sets whether to support a Gigabit network.

Item	Value	Description
Hub Link Setting	Auto Negotiate 100Base-TX Full 100Base-TX Half 10Base-T Full 10Base-T Half	Sets the connection mode to the hub.
Network Factory Defaults	Execute	Restores the settings, such as network, mail server, LDAP server, and secure protocol server, etc., to their default values.

USB Setup

Item	Value	Description
USB	Enable Disable	Enables/disables access using a USB interface.
Speed	480Mbps 12Mbps	Sets the maximum baud rate using a USB interface.
Soft Reset	Enable Disable	Enables/disables the software reset command.
Serial Number	Enable Disable	Enables/disables the USB serial number. The USB serial number is used to identify USB devices connected to a PC.
Offline Receive	Enable Disable	Sets whether to receive data even if offline or a recoverable error occurs.

Bold indicates factory-set values.

Print Setup

Item	Value	Description
Personality	Auto PCL PostScript	Select the print language. Print language switching is automatic when set to Auto.

	ltem	Value	Description
Copies		1 9999	Sets the copy quantity. This setting is ignored in case of local print. This setting is disabled unless the Job Copy setting is 1.
Job Copy		1 999	Sets the print quantity. This setting is ignored in case of local print. The settings in the printer driver always overwrite these settings. * This setting is enabled only if Collate is checked and 1 is specified as the number of copies in the PCL printer driver.
Edge to Edge		On Off	Sets the print margin.
Resolution		600dpi 1200dpi	Sets the resolution.
Toner Save	Toner Save Level	Off Low Middle High	Set the toner save quantity. Specifies Off when toner save mode is disabled.
	Color	All Except 100% Black	All: All colors, including 100% black, comprise all the target colors for toner saving. Except 100% Black: All colors, excluding 100% black, comprise all the target colors for toner saving.

Item	Value	Description
Check Unnecessary Print Cartridge	On Off	Set whether to generate an error or continue printing when a print cartridge is detected to be down even though it is not being used as a specified color for the print data. On: An error is displayed and the print job is cancelled, to give priority to the service life of the print cartridge. Off: A warning screen is displayed, but printing continues because priority is given to productivity.
Default Orientation	Portrait Landscape	Sets the print orientation.
Trapping	Off Narrow Narrow / Choke White Wide Wide / Choke White Choke White	Sets trapping. Narrow/Choke White, Wide/Choke White, and Choke White are displayed for the QL-300s only.

PS Setup

Item	Value	Description
Network Protocol	ASCII RAW	Specifies the PS communication protocol mode for data from the network.
USB Protocol	ASCII RAW	Specifies the PS communication protocol mode for data from USB.

Bold indicates factory-set values.

PCL Setup

Item	Value	Description
Font Source	Resident Resident2 Downloaded	Sets the location of the fonts to be used.
Font Number	10 C1 S1	Sets the numbers of the fonts to be used.
Font Pitch	0.44 CPI 10.00 CPI 99.99 CPI	Sets the font width. Increases and reduces in 0.01 CPI units. Displayed when the font selected using Font Number is an outline font with fixed spacing.
Font Height	4.00 points 12.00 points 999.75 points	Sets the font height. Increases and reduces in 0.25 point units. Displayed when the font selected using Font Number is an outline font with variable spacing.
Symbol Set	PC-8 PC-8 Dan/Nor PC-8 Grk PC-8 TK PC-775 PC Ext D/N PC Ext US PC Set1 PC Set2 D/N PC Set2 US	Select the symbol set.
CR Function	CR CR+LF	Specifies the operation when a CR code is received.
LF Function	LF LF+CR	Specifies the operation when an LF code is received.
Print Margin	Normal 1/5 inch 1/6 inch 1/8 inch 1/12.5 inch	Sets the area of the paper where printing is not possible.

Item	Value	Description
True Black	On Off	Specifies whether to use mixed CMYK or black toner only for printing black of image data.
Pen Width Adjust	On Off	Compensates so that thin lines are visible.

Color Setup

Item	Value	Description
Ink Simulation	Off SWOP ISO Coated Japan	Sets the ink simulation. This setting is enabled only for PS language jobs.
UCR	Low Normal High	You can select the black plate (black) amount during color printing. Setting more black plate economizes on the toner of the other three colors.
CMY 100% Density	Enable Disable	Enables/disables 100% output for CMY 100% shade values.
CMYK Conversion	On Off	You can select the method of total toner quantity control for CMYK data. Select Off to disable GCR (Gray Component Replacement). Furthermore, this menu setting is disabled if using the ink simulation function.

Bold indicates factory-set values.

Panel Setup

Item	Value	Description
Idle Display	Supplies Life Unwinder Config	Sets the information displayed in the standby screen.

Item	Value	Description
Panel Brightness During Operation	5 31	Adjusts the brightness (backlight luminosity) of the control panel LCD. The set brightness is applied during control panel operations.
Panel Brightness While Power Save	0 1 31	Adjusts the brightness (backlight luminosity) of the control panel LCD. The set brightness is applied after the panel backlight timer time has elapsed from the last operation.
Panel Backlight Timer	10 30 300	Adjusts the time (in seconds) from the last operation until Panel Brightness While Power Save is applied.

Time Setup

Item	Value	Description
Date Format	yyyy/mm/dd mm/dd/yyyy dd/mm/yyyy	Sets the date display mode. The initial values vary depending on your operating environment.
Time Zone	-12:00 +0:00 +13:00	Sets the time difference from GMT in 15-minute units. If the time zone setting is changed, the time differences before and after the change are reflected in the current time.
Daylight Saving	On Off	Sets whether to display daylight saving time. On: Sets the current time 1 hour forward. Off: Sets the current time 1 hour back.

Item	Value	Description
Time Setting	2000/01/01 00 :00 2091/12/31 23 :59	Sets the time.

Power Setup

Item	Value	Description
Power Save	Enable Disable	Enables/disables power save mode.
Auto Power Off	Enable Auto Config Disable	Sets auto power off mode.

Bold indicates factory-set values.

Others Setup

h	tem	Value	Description
RAM Setup	Receive Buffer Size	Auto 0.5 MB 1 MB 2 MB 4 MB 8 MB 16 MB 32 MB	Sets the incoming buffer size that is assured by the local interface.
	Resource Save	Auto Off 0.5 MB 1 MB 2 MB 4 MB 8 MB 16 MB 32 MB	Sets the resource saving area size.

It	tem	Value	Description
Storage Common Setup	Check File System	Execute	Implements management data (FAT information) recovery, and resolves mismatches between the actual (free) space in the file system and the free space displayed.
	Check All Sectors	Execute	Recovers defective sector information on the HDD and file system non-conformances.
	Enable Initialization	No Yes	Specifies whether or not to authorize setup changes associated with HDD and flash memory initialization.
Language Setup	Select Language	Chinese English French German Italian Japanese Russian Spanish	Specifies the control panel display language.
	Language Initialize	Execute	Deletes the message files that have been downloaded. Also, the Select Language setting returns to the factory default setting.

lte	em	Value	Description
Job Cancel Setup	Cancel Key Behavior	Short Long Off	Sets the operations when the device CANCEL button is pressed. Short: Hold down no longer than two seconds to cancel the print job. Long: Hold down for 2 to 5 seconds to cancel a print job. Off: Disables the CANCEL button.
	Inquiry Display	On Off	Sets whether to display the inquiry screen when a job is canceled.
	Focus Position	Yes No	Sets whether to apply Yes or No focus for selection in the job cancellation inquiry screen.
	Display Timeout	60 180 300	Sets the display timeout value for the inquiry screen when a job is canceled.

lte	em	Value	Description
Media Operation Setup	Inquiry Display	On Off	Specifies the operation when the FEED button or the UNLOAD button is pressed. On: In the cases below, a confirmation screen is displayed before the operation is executed. • FEED: When the paper changes from a stand-by state to a through paper state • UNLOAD/CUT: When cut is executed Off: Operation is performed
			without displaying a confirmation message.
	Rewinder Distance	600 millimeter (24 inch) 900 millimeter (36 inch) 1200 millimeter (48 inch)	Specifies the amount to be fed when the FEED button is pressed in the stand-by state, using the output slot as the reference point.
	Feed Distance	150 millimeter (6 inch) 300 millimeter (12 inch) 450 millimeter (18 inch)	Specifies the amount to be fed when the FEED button is pressed in the through paper state, using the current position as the reference point.

Settings

Item	Value	Description
Reset Settings	Execute	Restores the user menu settings to the factory settings.
Save Settings	Execute	Saves the current menu settings.
Restore Settings	Execute	Changes the saved menu settings. Displayed when Save Settings is executed on the control panel.

Change Password

Item	Value	Description
New Password	*****	Sets a new password to be entered in the Admin menu and Boot Menu .
Verify Password	*****	Sets a new password to be entered in the Admin menu and Boot Menu for which New Password has been set.

Bold indicates factory-set values.

Print Statistics

To enter this menu, it is necessary to enter the password. The factory default setting of the administrator password is 0000.

Item	Value	Description
Usage Report	Enable Disable	Enables/disables the Usage Report function.
Supplies Report	Enable Disable	Sets whether or not to display the number of wear item replacements. Not displayed if Disable is set for the control panel Print Statistics > Usage Report item.
Reset Main Counter	Execute	Resets the main counter aggregate value. Not displayed if Disable is set for the control panel Print Statistics > Usage Report item.
Reset Supplies Counter*2	Execute	Resets the number of wear item replacements. Not displayed if Disable is set for the control panel Supplies Report item.

Item		Value	Description
Change Password*1	New Password	***	Sets the new password to be entered in Print Statistics . Not displayed if Disable is set for the control panel Print Statistics > Usage Report item.
	Verify Password	***	Sets a new password to be entered in the Print Statistics for which New Password has been set. Not displayed if Disable is set for the control panel Print Statistics > Usage Report item.

Calibration

ltem		Value	Description
Auto Density Mode		On Off	Sets whether to automatically compensate density and shade.
Adjust Density		Execute	Implements density compensation. Implement when the device is in stand-by status.
Adjust Registration		Execute	Implements auto color misalignment compensation operations. Implement when the device is in stand-by status.
Color Density	Cyan Density	3 0 +3	Adjusts the cyan density. This setting is enabled from printing after the density compensation has been implemented.
Color Density	Magenta Density	-3 0 +3	Adjusts magenta density. This setting is enabled from printing after the density compensation has been implemented.

Item		Value	Description
Color Density	Yellow Density	-3 0 +3	Adjusts yellow density. This setting is enabled from printing after the density compensation has been implemented.
Color Density	Black Density	-3 0 +3	Adjusts black density. This setting is enabled from printing after the density compensation has been implemented.
Color Density	White Density	-3 0 +3	Adjusts white density. This setting is enabled from printing after the density compensation has been implemented. Displayed with QL-300s only.
Print Color Tuning Patt	Print Color Tuning Pattern		Prints patterns to match the shading characteristics.
Base Color Tuning	Highlight	A-1 A-2 B-1 B-2 O-1 O-2	Matches the color balance for the parts displayed as most clear in the highlight area of the printed color tuning pattern. The matching results are reflected in the highlight matching values for cyan, magenta, and yellow matching.
Base Color Tuning	Mid-Tone	A-1 A-2 B-1 B-2 O-1 O-2	Matches the color balance for the parts displayed as most clear in the mid-tone area of the printed color tuning pattern. The matching results are reflected in the mid-tone matching values for cyan, magenta, and yellow matching.

Item		Value	Description	
Base Color Tuning	Dark		A-1 A-2 B-1 B-2 O-1 O-2	Matches the color balance for the parts displayed as most clear in the dark area of the printed color tuning pattern. The matching results are reflected in the dark matching values for cyan, magenta, and yellow matching.
Fine Color Tuning	Fine Color Tuning Cyan Tuning	Highlight	-4 0 +4	Matches the highlights (light areas) of the cyan shade characteristics.
		Mid-Tone	-4 0 +4	Matches the intermediate areas of the cyan shading characteristics.
		Dark	-4 0 +4	Matches the dark (dark areas) of the cyan shade characteristics.
0	Magenta Tuning	Highlight	-4 0 +4	Matches the highlights (light areas) of the magenta shading characteristics.
		Mid-Tone	-4 0 +4	Matches the intermediate areas of the magenta shading characteristics.
		Dark	-4 0 +4	Matches the dark (dark areas) of the magenta shading characteristics.

Item		Value	Description	
Fine Color Tuning	Yellow Tuning	Highlight	-4 0 +4	Matches the highlights (light areas) of the yellow shading characteristics.
		Mid-Tone	-4 0 +4	Matches the intermediate areas of the yellow shading characteristics.
		Dark	-4 0 +4	Matches the dark (dark areas) of the yellow shading characteristics.
Fine Color Tuning	Black Tuning	Highlight	-3 0 +3	Matches the highlights (light areas) of the black shading characteristics.
		Mid-Tone	-3 0 +3	Matches the intermediate areas of the black shading characteristics.
		Dark	-3 0 +3	Matches the dark (dark areas) of the black shading characteristics.
Reset Color Tuning		Execute	Resets CMYK color matching.	
Ite	em	Value	Description	
--------------------------	-----------	---	--	
White Tuning*1	Highlight	-3 0 +3	Matches the highlights (light areas) of the white shading characteristics. Displayed with QL-300s only.	
	Mid-Tone	-3 0 +3	Matches the intermediate areas of the white shading characteristics. Displayed with QL-300s only.	
	Dark	-3 0 +3	Matches the dark (dark areas) of the white shading characteristics. Displayed with QL-300s only.	
Density Adjustment Media		Standard Media Narrow/Thick Media	Specifies the operation speed during a density adjustment operation. Standard Media: Density adjustment operation performed at normal speed. Narrow/Thick Media: Density adjustment operation performed at low speed.	

Bold indicates factory-set values.

Boot Menu

This menu is displayed in English only.

Boot Menu

To enter this menu, press and hold the **OK** button while turning ON the power supply. Confirm that **Boot Menu** is selected and then press the **OK** button.

Ite	em	Value	Description
Storage Common Setup	Check File System	Execute	Executes management data (FAT information) recovery, and resolves mismatches between the actual (free) space in the file system and the displayed free space.
	Check All Sectors	Execute	Recovers defective sector information on the HDD and file system non-conformances.
Menu Lockout		On Off	Specifies whether or not to display menus on the control panel.
Panel Lockout		Mode1 Mode2 Off	Sets whether to disable the operations buttons on the control panel.

To enter this menu, it is necessary to enter the password. The factory default setting of the administrator password is 999999.

Bold indicates factory-set values.

Troubleshooting

To enter this menu, press and hold the **OK** button while turning ON the power supply. Select **Troubleshooting** and then press the **OK** button.

Item	Value	Description
Sensor Calibration Reset	Execute	This resets all sensor calibration results to initial values.

Saving Toner When Printing

Saving Toner When Printing (Toner Save Mode)

You can print by economizing the toner consumption amount by reducing the page print density. Separately enable or disable the toner economy mode for 100% black.



You can suppress the quantity of toner used by selecting one of the following five patterns as necessary to reduce toner density.

- Printer setting: Follows the printer's setup.
- Off: Prints using regular density without economizing the toner.
- Save Level Low: Prints using medium light toner.
- Save Level Middle: Prints using light toner.
- Save Level High: Prints using considerably light toner.

Toner Saving is enabled only if the print quality is specified as Normal or Draft.

The settings on the printer can be changed from **Admin Setup > Print Setup > Toner Save**. However, the printer driver settings are given priority.

Note: Toner save mode is not compatible with Spot Color printing.

Windows PCL Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Color** tab, use **Toner Saving** to select a toner save quantity.

1	Current setting	✓ <u>S</u> ave <u>M</u> anagement
2	<u>C</u> olor Mode:	Color
3		Automatic V Detail
		☑ Always create 100% <u>b</u> lack (K) toner
4		O Monochrome
5		Ma <u>n</u> ual settings
6	Spot Color:	Do not use
7		Spot color toner quantity adjustment
8		
9	Toner Saving:	Off ~
		Do not save 100% black toner

5. Print.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

Advance Exam		Color Overlays I	Extend		
	1	Current setting	(Default setting)	<u>S</u> ave	<u>M</u> anagement
	2	<u>C</u> olor Mode:	Olor		
Paper P	з		Automatic	•	Detai <u>l</u>
Paper Feed Direction	4				
action	5		Monochrome		
	6				
	7				
	8				
	9	<u>T</u> oner Saving:	Off	•	
	\square		🔲 Do not save 100% blac <u>k</u> toner		
Ø	Quick	Label [®] va Division	A <u>d</u> vance	Color S <u>w</u> atch	Defa <u>u</u> lt

4. On the **Color** tab, use **Toner Saving** to select a toner save quantity.

5. Print.

Printing Using the Specified Print Cartridge Only (Lift Up)

The lifespan of an unused print cartridge can be prolonged by separating it from the belt unit. Setting combinations are shown in the table below.

Print Color	Print Cartridge to be Lifted Up
Black (K) only	Cyan, magenta, yellow, white*
White* (W) only	Black, cyan, magenta, yellow
Black + white*	Cyan, magenta, yellow
Black, cyan, magenta, yellow	White*

Example: Printing using the CMYK Print Cartridge only

In this example, the White* (W) Print Cartridge is lifted up.

- *: Supported by QL-300s only.
- 1. Grasp the top cover open lever and open the top cover.



2. Check the position of the unused print cartridge via the label letters and color.



3. Turn the lift up lever on the print cartridge that is not being used clockwise to raise the print cartridge.



4. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

Fine Quality Printing

Changing Print Quality (Resolution)

Set **Quality** by aligning to the environment in which it is used.

Selecting Fine/Detail (1200x1200 dpi) prints at the highest quality available with the printer.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

4. On the **Setup** tab, change the **Quality** setting.

ample	<u>F</u> avorites		
1	Current setting(De	efault setting) ~ <u>S</u> ave <u>M</u> anag	ement
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in Ver-define	d paper
Paper 3		Format: Continuous Paper Media Type: Plain	
Paper Feed Direction		Media Weight: Medium Light (96-140 µm)	
5	Orientation :	Portrait O Landscape 180° Mirror Print	t
6	C <u>o</u> pies:	1 Collate Print in rev	erse order
		\checkmark To prioritize collation specified by application	
7	<u>C</u> ut Mode:	Only cut at the end of job $$	
8			
9	Quality:	Fine / Detail (1200 x 1200)	ince
		Scree <u>n</u> : Prioritize resolution ~	

5. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Setup** tab, change the **Quality** setting.

1	Current setting(De	fault setting) Image: setting settin
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in v User- <u>d</u> efined paper
Paper F		Format: Continuous Paper Media Type: Plain
Paper Feed Direction		Media Weight: Medium Light (96-140 μm)
rction 5	Orientation :	Portrait O Landscape 180° Mirror Print
6	C <u>o</u> pies:	1 💭 Collate 🗍 Print in rgverse order
7	<u>C</u> ut Mode:	Only cut at the end of job
8		
9	Quality:	Fine / Detail (1200 x 1200)
		Scree <u>n</u> :

5. Print.

Making Photograph Printing More Vivid (Photo Enhance)

You can print more natural and vivid images, such as photos, etc.

Note: This function can be used with Windows PCL printer drivers only.

Windows PCL Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the Setup tab, select Photo Enhance in the Quality section, and then click OK.

4	1 (Current setting(De	fault setting) ~ <u>S</u> ave <u>M</u> anagement
	2 P	aper se <u>t</u> tings:	Continuous 4.000 x 6.000in \checkmark User-defined paper
Paper	3		Format: Continuous Paper Media Type: Plain
Paper Feed Direction	4		Media Weight: Medium Light (96-140 μm)
ection	5 0	rientation :	Portrait O Landscape I 180° Mirror Print
	6 c	<u>o</u> pies:	1 □ Collate □ Print in reverse order ☑ To prioritize collation specified by application
	7 _	ut Mode:	Only cut at the end of job
:	8		
	9 9	uality:	Fine / Detail (1200 x 1200)
	=		Scree <u>n</u> : Prioritize resolution

5. Print.

Printing Sharper Photos (Image Smoothing)

You can reduce "jaggies" and "banding" (uneven gradation). *Note:* This function can be used with Windows PS printer drivers only.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

	1	Eavorites	fault setting)
T	2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in
Paper Feed Direction	з		Format: Continuous Paper Media Type: Plain
ed Dire	4		Media Weight: Medium Light (96-140 μm)
ction	5	Orientation :	Portrait Candscape 180° Mirror Print
	6	C <u>o</u> pies:	1 🕞 Collate Print in rgverse order
	7	<u>C</u> ut Mode:	Only cut at the end of job
	8		
	9	Quality:	Fine / Detail (1200 x 1200)
			Scree <u>n</u> :

4. On the **Setup** tab, select **Image Smoothing** in the **Quality** section, and then click **OK**.

5. Print.

Adjusting Fine Lines

You can prevent misaligned lines being printed when ultra-fine lines are specified from the application. This function is normally ON.

Depending on the application, bar code and other intervals will narrow. In this case, turn OFF the function.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

4. On the **Extend** tab, click **Advanced**.

tup Exam		verlays Exte				
♠	1	Curren	it setting	~	<u>S</u> ave	<u>M</u> anagement
L	2		Watermarks	You can print data create	ed by an application with a w	vatermark over it.
Paper Fr	з		_		· · · ·	
Paper Feed Direction	4		Fon <u>t</u> s	Makes settings related to	o TrueType fonts and printer	fonts.
ction	5					
	6					
	7					
	8					
	9					
	Ħ					
Ø (Quick				Advan <u>c</u> ed	Defa <u>u</u> lt

5. Select Adjust ultra fine lines. Next, select Off for Settings, and then click OK.

Advanced		×					
Keep page lay Overprint Blac Adjust for ove	Reduce Size of Spool File On Keep page layout when resizing document Off Overprint Black Off Adjust for overlapping colors Off Adjust utfor fine lines On						
Job Spool	nce cycle before printing	Off Off Printer setting					
	Adjust ultra fine lines						
<u>S</u> ettings	On	\sim					
Description							
Adjustment o bulges when p	f fine lines remedies the problem t rrinted.	that the outline of rectangles					
	OK Cancel	<u>H</u> elp Defa <u>u</u> lt					

6. Print.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

4. On the **Extend** tab, click **Advanced**.

Advanced		Color Overlays Extend
Examp	1e	Eavorites
T	-	Current setting(Default setting) Save Management
	2	Watermarks You can print data created by an application with a watermark over it.
^D aper F	3	
Paper Feed Direction	4	Drawing position adjustment Adjusts the position of the drawing data created in the printer driver.
iction	5	
	6	
	7	
	8	
	9	
	ī,	
		Advanged Default

5. Select the Adjust ultra fine lines check box, and then click OK.

Advanced 💽
Irapping: Printer Setting
🛄 Job Spool
📝 Adjust ultra fine lines
<u>Bun maintenance cycle before printing</u>
OK Cancel Default

6. Print.

Using Printer Fonts

You can print by replacing TrueType fonts with printer built-in fonts.

- The font replacement function stores the document fonts, but font designs cannot be reproduced. If it is necessary to print font designs accurately, disable the font replacement function.
- In some applications, the font replacement function may not work properly.

Note: This function can be used with Windows PCL printer drivers only.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

4. Click the **Extend** tab, and then select **Fonts**.

Examp	le	<u>F</u> avorites			
	1	Current setting	~	<u>S</u> ave	<u>M</u> anagement
L	2	Watermarks	You can print data create	d by an application with a	watermark over it.
Paper Fi	3				
Paper Feed Direction	4	Fon <u>t</u> s	Makes settings related to	TrueType fonts and printer	r fonts.
tion	5				
	6				
	7				
	8				
	9				
Pro	luickL	abel		Advanced	Default

5. On the "Font" screen, select the **Font Substitution** check box.

For this printer, this check box is selected as the default setting.

TrueType Font Qutput Type O Download as Outline Font Download as Bitmap Font Font Substitution		a	
Font Substitution Table For IrueType Font: Arabic Transparent Arial Babtic Arial Black Arial CE Arial CR Arial Greek Arial TUR Bahnschrift	^	Use Printer Font: (Not Substituted) AvantGarde Bookman Helvetica-Narrow NewCenturySchlbk Palatino ZapfChancery CourierPS Helvetica	<

- 6. Use the **Font Substitution Table** to specify which printer fonts should replace the TrueType fonts.
- 7. Print.

Using Computer Fonts

You can output TrueType fonts as they appear on the screen.

Note: Print time may be longer.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

- 4. On the **Extend** tab, click **Fonts**.
- 5. On the "Font" screen, clear the **Font Substitution** check box.
 - **Download as Outline Font** The font image is created by the printer.
 - **Download as Bitmap Font** The font information is created by the printer driver.

Download as Outline For Download as Bitmap For Font <u>Substitution</u>		a	
ont Substitution Table For <u>T</u> rueType Font:		Use <u>P</u> rinter Font:	
Arabic Transparent Arial Arial Baltic Arial Black	^	(Not Substituted) AvantGarde Bookman Helvetica-Narrow	^

6. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the Advanced tab, click TrueType Font, and then select Download as Softfont.
- 5. Print.

Adjusting the Print Position on the Paper

You can correct the print start position vertically and horizontally on the paper by the printer settings.

Please refer to the following procedure.

Using the Roll Paper



1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press 2, 2, 0 (function numbers), and then press the OK button.



3. Press the scroll button ▲ or ▼ to select the item you want to adjust.



4. Press the **OK** button.



5. Press the scroll button ▲ or ▼ to select the amount of the adjustment, and then press the **OK** button. Confirm there is a check mark to the left of the selected value.

Function Number	X Adjust
220 Enter 1-3digit	✓ +0.5 millimeter
	(-2.0 - +2.0)
	_
	🗙 Switch +/-

- Y represents the paper feed direction and X represents the orthogonal position relative to the paper feed direction.
- Set positive [+] numbers to widen the blank space in the X direction, and also set positive [+] numbers to widen the blank space in the Y direction.
- Readjustment might be necessary depending on the usage conditions (temperature, humidity, media type).
- By eliminating the differences between printers and using the same settings on all the printers with this procedure, you can use one computer when you want to get the same print results on multiple printers. See "Using the Printer Driver to Fine-tune the Print Position" on page 81.

Adjusting the Print Start Position

This section explains how to better align the position at which printing starts for die-cut label paper (with black mark), continuous label (with black mark), and die-cut label paper.

This adjustment is unnecessary if your print jobs do not require accurate positioning of where printing starts.

- 1. Adjust the position that printing starts on the first page.
 - a. After setting the size of the media, calibrate the sensor and execute Paper interval detection.
 - b. In the driver's print settings, set **To specify the number of pages per cut** in **Cut Mode** and set **1** in **Cut by collation**.

Note: You may not be able to set **1** in **Cut by collation** if the paper on which you are printing is shorter than 101.6 mm. If this is the case, set the smallest value that you can select.

c. Print five pieces of the media on which you are actually printing.

- d. Measure the distance at A or B, as shown in the diagram, for all five sheets and then calculate the average of these values.
- e. Calculate the difference in the position you want to print and the average value from the previous step.

f. Adjust the position using **Y** Adjust in Menus > Print Adjust > Print Position Adjust.

When using a black mark sensor - At the point that the black mark intersects the position of the black mark sensor on the printer, measure the distance at A from the leading edge of the black mark to the printed matter on five sheets.



When using a gap sensor - At the point that the label intersects the position of the gap sensor on the printer, measure the distance at B from the leading edge of the label to the printed matter on five sheets.



The plus and minus directions for print adjustment are illustrated below.



2. If you are actually printing more than two sheets consecutively, then next, do the following adjustment.

(Improve the accuracy of the function for learning the position that printing starts)

- a. In the driver's print settings, set **To specify the number of pages per cut** in **Cut Mode** and set 20 in **Cut by collation**.
- b. Print 20 pieces as a test print.

These printouts are test prints for adjusting positions, so throw them away when you are done.

3. The adjustments are complete when printing is done in the position you want.

Reset the cutter settings, and then start printing.

Other Print Functions

Specifying the Page Order

Extracts by page order when printing documents with multiple pages.

There are two methods.

- Printing documents in page order.
- Printing documents in reverse page order.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

4. On the **Setup** tab, select the **Print in reverse order** check box in the **Copies** area.

1	Current setting(De	fault setting)	Management
2	Paper settings:	Continuous 4.000 x 6.000in	User- <u>d</u> efined paper.
		Format: Continuous Paper	
3		Media Type: Plain	
4		Media Weight: Medium Light (96-140 µm)	
5	Orientation :	Portrait Candscape 180°	Mirror Print
6	C <u>o</u> pies:	1 Collate	Print in reverse ord
U U		To prioritize collation specified by application	
7	<u>C</u> ut Mode:	Only cut at the end of job $\qquad \lor$	
8			
9	<u>Q</u> uality:	Fine / Detail (1200 x 1200) 🗸	Photo Enhance
Ħ		Scree <u>n</u> : Prioritize resolution ~	

5. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Setup** tab, select the **Print in reverse order** check box in the **Copies** area.

1	Current setting(De	fault setting) ▼ Save <u>M</u> anagement
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in Vser- <u>d</u> efined paper
Paper Feed Direction		Format: Continuous Paper Media Type: Plain
ed Direc		Media Weight: Medium Light (96-140 μm)
tion 5	Orientation :	Portrait O Landscape 180°
6	C <u>o</u> pies:	1 Collate Print in rgverse order
7	<u>C</u> ut Mode:	Only cut at the end of job 👻
8		
9	Quality:	Fine / Detail (1200 x 1200)
		Scree <u>n</u> : Fine

5. Print.

Overlaying Stamps for Printing (Watermarks)

The details to be printed from the application can be independently printed overlaying Samples, Confidential, etc.



- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Extend** tab, click **Watermarks**.

Exam		<u>F</u> avorites				
Ť	1	Current setting		~	<u>S</u> ave	<u>M</u> anagement
	2	Watermark	cs You	can print data created	by an application with a	watermark over it.
Paper Fe	3					
Paper Feed Direction	4	Fon <u>t</u> s	Mak	ces settings related to T	rueType fonts and printe	er fonts.
tion	5					
	6					
	7					
	8					
	9					
	\exists					
Pro	Quick	abel'			Advanced	Default

5. Click New.



6. On the Watermarks screen, enter text into **Text**, and configure **Size** and other settings.

Iext secret	
Size:	
72 < >	
Angle:	Secter
45 < >	500
-180 0 +180	
Eont Color	
T <u>r</u> im	Position
None	Centre
○ Circle	Watermark Adjustment
O Single Frame	<u>X</u> : 0 + Y: 0 +
O Double Frame	

- 7. Click the **OK** button.
- 8. Print.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

4. On the **Extend** tab, click **Watermarks**.

Advance Examp		Color Overlays Etend
	1	Current setting(Default setting) Save
	2	Watermarks You can print data created by an application with a watermark over it.
Paper Fe	3	
Paper Feed Direction	4	Drawing position adjustment Adjusts the position of the drawing data created in the printer driver.
otion	5	·
	6	
	7	
	8	
	9	
Ø		abel Advanced Default

5. Click **New**.

(None)	^		
		[]	
	~		
<u>N</u> ew <u>D</u> elete	e	Edit	
First page <u>o</u> nly		-	
Job information			
<u>Print job information</u>		Job information settin	
			-9-

6. On the Watermarks screen, enter text into **Text**, and configure **Size** and other settings.

Text secret	
Size:	
72 <	
Angle:	C.
45 < >	5801 ⁸¹
-180 0 +180	
<u>F</u> ont <u>C</u> olor	
Trim	Position
None	Centre
○ Circle ○ Single Frame	Watermark Adjustment
	<u>X</u> : 0 ÷ <u>Y</u> : 0 ÷

- 7. Click the **OK** button.
- 8. Print.

Collating Printed Output (Sorted Printing)

You can store print jobs in the device memory and collate the printing.

• Printing by specifying batches (x2 sets)



• Printing without specifying batches (x2 sets)



Note: This feature is not usable with some applications.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Setup** tab, enter a value for **Copies**, and then select the **Collate** check box.

1	Current anti-	✓ Save	Management
T T	Current setting	✓ Save	Management
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in \sim	User- <u>d</u> efined paper
3		Format: Continuous Paper	
		Media Type: Plain	
Paner Feed Direction		Media Weight: Medium Light (96-140 μm)	
2	Orientation :	Portrait Clandscape 180°	Mirror Print
3	C <u>o</u> pies:	2 🗘 🔽 Collate	Print in reverse order
1		To prioritize collation specified by application	
1	Cut Mode:	Only cut at the end of job $\qquad \checkmark$	
2			
з	<u>Q</u> uality:	Fine / Detail (1200 x 1200) ~	Photo Enhance
		Scree <u>n</u> : Prioritize resolution ~	

5. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Setup** tab, enter a value for **Copies**, and then select the **Collate** check box.

fined paper
Print
r <u>e</u> verse or
oot <u>h</u> ing

5. Print.

Printing a Mirror Image

Print using mirror print when you want to print image to appear normal when the page is viewed from the back.

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).

4. On the **Setup** tab, select the **Mirror Print** check box in the **Orientation** section, and then click **OK**.

	<u>F</u> avorites			
1	Current setting	~	<u>S</u> ave	Management
2	Paper settings:	Continuous 4.000 x 6.000in	~	User- <u>d</u> efined paper
Paper Feed Direction		Format: Continuous Paper Media Type: Plain		
Fee		Media Type: Plain Media Weight: Medium Light (96-14	40 µm)	
1Direc				
s ^{idi}	Orientation :	Portrait Candscape] 1 <u>8</u> 0°	Mirror Print
в	C <u>o</u> pies:	1 🗘 🖸 Co <u>l</u> late		Print in reverse order
0		To prioritize collation specified by a	oplication	
7	<u>C</u> ut Mode:	Only cut at the end of job	~	
8				
e	<u>Q</u> uality:	Fine / Detail (1200 x 1200)	~	Photo Enhance
		Scree <u>n</u> : Prioritize resolution	ı v	

5. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Setup** tab, select the **Mirror Print** check box in the **Orientation** section, and then click **OK**.

Examp	1e	Eavorites	fault setting) 🔹 Save Management	
Τ	2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in User-gefined pape	
Ļ	2	Paper se <u>t</u> tings.		5
aper F	3		Format: Continuous Paper Media Type: Plain	
Paper Feed Direction	4		Media Weight: Medium Light (96-140 μm)	
action	5	Orientation :	Portrait Candscape 180° Mirror Print	
	6	C <u>o</u> pies:	1 Collate Print in rgverse or	der
	7 8	<u>C</u> ut Mode:	Only cut at the end of job	
	8	Quality:	Fine / Detail (1200 x 1200)	
			Scree <u>n</u> : Fine 🔻	
		Label [®] va Division	A <u>b</u> out Defa <u>u</u> l	t

5. Print.

Printing Registered Forms (Print Overlay)

You can register forms, logos, etc., as forms to the device, and overlay for printing.

To print an overlay, you need to create a form and register it in advance. It is possible to specify a maximum of four forms in one group. Forms are overlaid and printed in the order they are registered. That is to say, the last form you register is printed on top.

Windows PCL Printer Driver

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select Printing Preferences.
- 4. On the **Overlays** tab, select **Overlay Print**.

1	Current setting		✓ <u>S</u> ave	Management
2	Overlay Print		~	
ε	overay Princ			
	Name Test Form	ID	Description	<u>E</u> dit list
4	Test Form		All pages	Test Print
Б				Test him
6				
7				
8				
6				

- 5. To register a form to the printer, select **Register print document as a new form** and click **Apply > OK**. From the application, print the image you want to register as a form, and when the **New Form** screen appears input the various information and click **OK**.
- 6. To apply an overlay, select **Overlay Print**. Select the forms you want to use for overlay printing and click **Apply > OK**. Print from the application.

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select **Printing Preferences**.

4. On the **Overlays** tab, select **Overlay Print**.

dvance Exam	ple	Color Overlays Exter			
T	1	Current setting(Def	ault setting)	▼ <u>S</u> ave	<u>M</u> anagement
-	2	Do not use overlay	print	•	
Paper Feed Direction	3	Name	Form Name	Description	Edit list
ed Dire	4			•	
ction	5				<u>T</u> est Print
	6				
	7				
	8				
	9				
Ø	QuickL				Defa <u>u</u> lt

- 5. To register a form to the printer, select **Register print document as a new form** and click **Apply > OK**. From the application, print the image you want to register as a form, and when the **New Form** screen appears input the various information and click **OK**.
- 6. To apply an overlay, select **Overlay Print**. Select the forms you want to use for overlay printing and click **Apply > OK**. Print from the application.

Outputting to a File Without Printing

You can write and save to a file without printing the print data.

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select **Printer Properties**.
- 4. Select the **Ports** tab.

5. In the ports list, select **FILE:**, and then click **OK**.

Status	3	Security		Device O	ptions
General	Sharing	Ports	Advance	d Color	Managemer
	uickLabel QL-30		uill print to th	o first from	
hecked port		. Documents	will print to th	e first free	
Port	Description	P	rinter		^
LPT2:	Printer Port				
LPT3:	Printer Port				
COM1:	Serial Port				
COM2:	Serial Port				
COM3:	Serial Port				
	Serial Port				
FILE:	Print to File				~
Add P	or <u>t</u>	Delete Po	ort	<u>C</u> onfigure Po	ort
∠ Enable bid	lirectional supp	ort			
] E <u>n</u> able pri	nter pooling				

- 6. Print.
- 7. Enter the file name, and then click **OK**.

Windows PS Printer Driver

- 1. Click **Start** and select **Control Panel** in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select **Printer Properties**.
- 4. Select the **Ports** tab.
- 5. In the ports list, select **FILE:**, and then click **OK**.

QuickLabel Q	L-300 PS Prop	erties		×
Status		Security	Device Settin	gs
General	Sharing	Ports Adv	anced Color Man	agement
	uickLabel QL-3			
Print to the for checked port Port		s). Documents will pr Printer		*
LPT2:	Printer Port			E
LPT3:	Printer Port			-
COM1:	Serial Port			
COM2:	Serial Port			
COM3:	Serial Port			
COM4:	Serial Port			
FILE:	Print to File			-
Add P	or <u>t</u>	Delete Port	<u>C</u> onfigure Po	ort
	irectional sup nter pooling	port		

6. Print.

7. Enter the file name, and then click **OK**.

Changing the Check Unnecessary Print Cartridge Setting

You can have an error displayed and cancel the print job to prioritize the service life of a print cartridge that is detected to be down even though it is not being used as a specified color for the print data.

1. Press the scroll button ▼ several times to select Admin Setup, and then press the OK button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 💁 Admin Setup	
5 - Print Statistics	
6 Calibration	
Use Online button to return to sta	andby screen.

2. Use the numeric keypad to input the administrator password.

The factory default password is 999999. Press the **OK** button after inputting each character.

(6 - 12 digits)		
I lee Online hutto	n to return to standby scr	een

3. Select **Print Setup**, and then press the **OK** button.

Admin Setup	1/2 Page
1 Network Setup	
2 USB Setup	
3 Print Setup	
4 PS Setup	
5 PCL Setup	
6 Color Setup	
7 8 ↑ / ↓ Page	

4. Select **Check Unnecessary Print Cartridge**, and then press the **OK** button.



5. If you want an error to be generated when a print cartridge is detected to be down even though it is not being used as a specified color for the print data, select **On**. Select **Off** if you want printing to continue. Then, press the **OK** button.



6. Press the **ON LINE** button to return to the standby screen.



Saving Printer Driver Setups

You can save the details set using the printer drivers.

If you save the changes to the settings for multiple locations, then the next and following times you change the settings, all you have to do is specify the driver settings so that those settings in the multiple locations are automatically changed to the settings that you saved.

Save a Setup

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.

3. Right-click the **QL-300** icon, and then select **Printing preferences**.

If you are using the Windows PCL printer driver, the following window will open.

1	Eavorites		
TIT	Current setting(De	fault setting)	e <u>M</u> anagement
2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in	VUser- <u>d</u> efined paper
Pape 3		Format: Continuous Paper	
Fe		Media Type: Plain	
Paper Feed Direction		Media Weight: Medium Light (96-140 μm)	
^{ction} 5	Orientation :	● Portrait ○ Landscape □ 180°	Mirror Print
6	Copies:	1 Collate	Print in reverse order
Ŭ		To prioritize collation specified by application	
7	<u>C</u> ut Mode:	Only cut at the end of job	/
8			
9	Quality:	Fine / Detail (1200 x 1200)	Photo Enhance
		Scree <u>n</u> : Prioritize resolution \checkmark	

If you are using the Window PS printer driver, the following window will open.

T	1			
		Current setting(Def	ault setting)	<u>M</u> anagement
	2	Paper se <u>t</u> tings:	Continuous 4.000 x 6.000in 💌	User- <u>d</u> efined paper
^o aper F	з		Format: Continuous Paper Media Type: Plain	
Paper Feed Direction	4		Media Weight: Medium Light (96-140 μm)	
action	5	Orientation :	Portrait	Mirror Print
	6	C <u>o</u> pies:	1 Collate	Print in r <u>e</u> verse order
	7	<u>C</u> ut Mode:	Only cut at the end of job	
	8			
	9	Quality:	Fine / Detail (1200 x 1200) Screeg: Fine	Image Smoot <u>h</u> ing
			A <u>b</u> out.	Defa <u>u</u> lt

- 4. Change the settings to create the setup you want to save.
- 5. On the **Setup** tab, click **Save**.
- 6. Enter the setting name into **Save Favorites as**, and then click **OK**.

Save Favorites	×
Save Favorites as:	
ОК	Cancel

7. Click **OK** to close the Print Setup dialog box.

Recall a Saved Setup

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Setup** tab, configure **Favorites**.

ample	<u>Favorites</u>				
1	Save Favorites		~	<u>S</u> ave	Management.
	Default setting				
2	Current setting			~	User- <u>d</u> efined paper.
	Save Favorites				
3 3		Format:	Continuous Paper	r	
Paner Feed Dir		Media Type:	Plain		
		Media Weight:	Medium Light (96	-140 um)	

5. Print.

Delete a Saved Setup

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select **Printing Preferences**.
- 4. On the **Setup** tab, click **Management**.
- 5. Click Delete.

Favorites management		×
Import	<u>E</u> xport	Delete
	<u>C</u> lose	<u>H</u> elp

- 6. Select the setup you want to delete, and then click **Delete**.
- 7. Click Yes.

Importing/Exporting a Printer Driver Print Setup

You can convert printer driver print setup information to a file, and then export/import the file. The file extension for exporting/importing is ".xmn".

Export a Setup

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select **Printing Preferences**.
- 4. On the **Setup** tab, click **Management**.

5. Click **Export**.

Favorites management		×
<u>I</u> mport	<u>E</u> xport	<u>D</u> elete
	<u>C</u> lose	<u>H</u> elp

6. In the **List of favorite settings** on the "Export" screen, select the checkbox next to the setup you want to export, and then click **Export**.

ist of favorite <u>s</u> ettings	
Save Favorites	
	Select <u>A</u> ll
	Unselect
Display by paper form	
Display all	
Continuous Paper	
Continuous Paper(black mark)	
☑ Die-c <u>u</u> t label(gap)	
Die-cut label(black mark)	
Eull Surface label	
Full Surface label(black mark)	

7. Enter a file name, specify where to save it, and then click **Save**.

Import a Setup

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select **Printing Preferences**.
- 4. On the **Setup** tab, click **Management**.
- 5. Click Import.

Favorites management		×
Import	<u>E</u> xport	<u>D</u> elete
	<u>C</u> lose	Help

6. On the "Import" screen, click **Open the file**.

	Open the <u>f</u> ile
	Select <u>A</u> ll
	Unselec <u>t</u>
O⊻erwrite duplicate paper Display by paper form ☑ Display all	
 ✓ Continuous Paper ✓ Continuous Paper(black mark) 	
☑ Die-c <u>u</u> t label(gap)	
Die-cut label(black mark)	
✓ <u>F</u> ull Surface label	
Full Surface label(black mark)	

- 7. Specify the file you want to import, and then click **Open**.
- 8. Check the names of the settings in the List of favorite settings, and then click Import.
- 9. When the message "Imported successfully." appears, click **OK**.

Changing Default Printer Driver Settings

It is convenient to set frequently used settings as the default settings.

Windows PCL Printer Driver

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the QL-300 icon, and then select **Printing Preferences**.
- 4. Change the various settings, and then click **OK**.

Deleting or Updating a Printer Driver

Deleting a Printer Driver

PC administrator privileges are required.

Restart the computer, and then delete the driver.

- 1. Click Start and select Control Panel in Windows.
- 2. Click View devices and printers.
- 3. Right-click the **QL-300** icon, and then select **Remove device**.
- 4. If a verification message is displayed, click **Yes**.

Note: If a message appears while the device is in use, restart the PC, and then perform steps 1 and 2 of this procedure again.

- 5. Select one of the icons in **Devices and Printers**, and click **Print server properties** in the top bar.
- 6. Select the **Drivers** tab.
- 7. Click Change Driver Settings.
- 8. Select the driver to be deleted, and click **Remove**.

Print Server Properties		
Forms Ports Drivers Security	Advanced	
DESKTOP-G1GC40	r	
Installed printer drivers:		
Name	Processor	Туре
Microsoft enhanced Point	х64	Type 3 - User Mode
Microsoft enhanced Point	x86	Type 3 - User Mode
Microsoft Print To PDF	x64	Type 4 - User Mode
Microsoft XPS Document	х64	Type 4 - User Mode
QuickLabel QL-300 PCL6	x64	Type 3 - User Mode
	Remove	Properties
	Nemove	Properties
A <u>d</u> d		

9. If a message asking whether to delete the drivers only, or the drivers and packages from the system, select to delete drivers and packages, and click **OK**.

Remove Driver And Package				
Do you want to remove the driver(s) only, or remove the driver(s) and driver package(s) from your system?				
 <u>Remove driver only.</u> <u>Remove driver and driver package.</u> 				
ОК	Cancel			

- 10. If a verification message is displayed, click **Yes**.
- 11. If the **Remove Driver Package** dialog box is displayed, click **Delete > OK**.

Note: If you cannot cancel, restart the PC, and then perform steps 4 to 10 of this procedure again.

- 12. Click **OK** in the **Print server properties** dialog box.
- 13. Restart the PC.

Updating a Printer Driver

PC administrator privileges are required.

- 1. Obtain the printer driver from QuickLabel.
- 2. Double-click the file you downloaded.
- 3. Select the desired language, and then click **OK**.

Note: When the "User Account Control" window is displayed, click Yes.

4. Read the "Software License Agreement", and click **Accept**.

- 5. Follow the instructions that appear on the screen to finish driver installation.
 - Attempting to install an old version driver will cause an update screen to appear. Follow the instructions that appear on the screen.
 - Updating a driver may require restarting of the computer.
- 6. When the Program Compatibility Assistant dialog appears, click **This program installed correctly**.
Adjusting the Color

Adjusting Color with the Control Panel

Correcting Color Drift Manually

The printer compensates color drift automatically according to the conditions of use. If the color drift is noticeable, you can also implement compensation manually.

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press 3, 0, 1 (function numbers) and press the OK button.

Func	tion Nu	nber			
3	01				
E	nter 1-	3digit Nu	mber		

3. Check that **Execute** has been selected, and press the **OK** button.



4. The display will return to the standby screen.

Configuring Settings for Auto Adjustment of Density and Gradation

The printer compensates density automatically according to the conditions of use. To compensate automatically, turn **On** the density compensation matching setting.

In the default factory settings, density compensation matching is implemented automatically.

1. Press the scroll button \blacktriangle or \blacktriangledown .



2. Select Calibration, and press the OK button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
🛃 🔙 Admin Setup	
5 - Print Statistics	
6 Calibration	
Use Online button to return to standby so	reen.

- 3. Select Auto Density Mode, and then press the OK button.
 - Calibration
 1/2 Page

 1 Auto Density Mode
 2

 2 Adjust Density
 3

 3 Adjust Registration
 4

 4 Color Density
 5

 5 Print Color Tuning Pattern
 6

 6 Base Color Tuning
 7

 7
 8 ↑ / ↓ Page
- 4. Select **On**, and then press the **OK** button. Confirm there is a check mark to the left of **On**.



5. Press the **ON LINE** button to return to the standby screen.



Adjusting Density Manually

The printer can implement compensation periodically using auto density compensation mode, but if the print density is noticeable, it can also be compensated manually.

Density adjustment values are set by specifying Cyan Density, Magenta Density, Yellow Density, Black Density, and White Density* values with the control panel.

*: This item available only on the QL-300

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press **3**, **0**, **0** (function numbers) and press the **OK** button.

Functi	ion Nur	nber			
30	0				
En	nter 1-3	3digit N	umber		
		•			

3. Check that **Execute** has been selected, and press the **OK** button.



- 4. Execute density adjustment.
- 5. The display will return to the standby screen after density adjustment is complete.

Ready To	Print			
100%	100%	100%	100%	100%
Yellow	Magenta	Cyan	Black	White

Fine Tuning Density Adjustments

You can finely adjust the densities of colors that are used as the references for density compensation.

Adjust each color separately for the parts where the density is noticeable from the print results.

This section describes the procedure for adjusting the reference density for cyan. Use the same adjustment procedure also for other colors that you wish to adjust.

Increasing cyan after checking the print results

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press **3**, **1**, **0** (function numbers) and press the **OK** button.



For other colors, use the operations below.

- To tune magenta, press the **Fn** key, and then press the following buttons: **3**, **1**, **1**, **OK**.
- To tune yellow, press the **Fn** key, and then press the following buttons: **3**, **1**, **2**, **OK**.
- To tune black, press the **Fn** key, and then press the following buttons: **3**, **1**, **3**, **OK**.
- To tune white, press the **Fn** key, and then press the following buttons: **3**, **1**, **4**, **OK**. This option is only available on the QL-300s.

3. Press the scroll button ▲ or ▼ to specify a value that is larger than the current value, and then press the **OK** button.

Confirm there is a check mark to the left of the selected value.

	yan Density	
310 <mark>.]</mark> Enter 1-3digi	~ 0	
	(-3-+3)	
	Switch +/-	

Select +1 to +3 to make density darker, or -1 to -3 to make it lighter.

4. Press the **ON LINE** button to return to the standby screen.



5. Press the **Fn** key, and then press **3**, **0**, **0**, **OK**.

Funct	ion Number		
30	0.		
Er	nter 1-3digit Nun	nber	

6. Check that **Execute** has been selected, and press the **OK** button.



- 7. The display will return to the standby screen.
- 8. Print.

If you are not satisfied with the density, repeat steps 1 to 6 of this procedure.

Adjusting Color Balance (Density)

The printer can implement compensation periodically using auto density compensation mode. However, you can implement this adjustment when you want to adjust the gray balance of the halftones, which is not sufficiently adjusted by the auto density compensation.

- The densities of the colors are mutually dependent on each other, so you will need to repeat adjustment several times until the desired color balance is achieved.
- The results of the basic Base Color Tuning are reflected in the settings in Fine Color Tuning. Consequently, if the Fine Color Tuning are adjusted manually, these settings will be reset, so be careful. However, the Black Tuning settings are not reset.
- 1. Print a color tuning pattern.
 - a. Press the **Fn** key.

The numerical values input screen will be displayed.



b. Press 3, 0, 2 (function numbers) and press the OK button.



c. Check that **Execute** has been selected, and press the **OK** button.



d. The color tuning pattern will be printed.

2. Use the print results for the color tuning pattern to check the current color balance.



Check the area to be referenced using "Base Color Tuning". Check the "Highlight", "Mid-Tone", and "Dark" areas of the color tuning pattern and note the number (A-1 and 2 to O-1 and 2) of the block whose pattern of mixed CMY part (upper left) is most similar to its single color K part (lower right).

Note: If the pattern that seems most similar to the adjacent CMY mixed colors part and single color K part in the "Highlight", "Mid-Tone", or "Dark" areas matches the "Current" on the left of the color tuning pattern, the color balance is normal and does not require adjustment.

- 3. Use the print results for the color tuning pattern to adjust the color balance.
 - a. Press the scroll button \blacktriangle or \blacktriangledown .
 - b. Select **Calibration**, and press the **OK** button.



c. Select **Base Color Tuning**, and press the **OK** button.

Calibration	1/2 Page
1 Auto Density Mode	Π
2 Adjust Density	
3 Adjust Registration	
4 Color Density	
5 Print Color Tuning Pattern	
6 Base Color Tuning	
7 8 ↑ / ↓ Page	

d. Specify the number of the desired square in the "Highlight" area of the pattern, and then press the **OK** button.

Calibration	Highlight	1/5 Page
Auto Density	1 A-1	
2 Adjust Densi	2 A-2	
3 Adjust Regis	3 B-1	
4 Color Density	4 B-2	
5 Print Color T	5 C-1	
6 Base Color T	6 C-2	
[7][8]↑/↓ Pe	7 8 ↑ / ↓ Pag	e 📕

e. Specify the number of the desired square in the "Mid-Tone" area of the pattern, and then press the **OK** button.

Calibration	Mid-Tone	1/5 Page
Auto Density	1 A-1	
2 Adjust Densi	2 A-2	
3 Adjust Regis	t 3 B-1	
4 Color Densit	4 B-2	
5 Print Color T	5 C-1	
Base Color	6 C-2	
[7][8]↑/↓ P	78 ↑ / ↓ Page	e

f. Specify the number of the desired square in the "Dark" area of the pattern, and then press the **OK** button.

Calibration	Dark	1/5 Page
1 Auto Density	1 A-1	
2 Adjust Densi	2 A-2	
3 Adjust Regis	3 B-1	
4 Color Density	4 B-2	
5 Print Color T	5 C-1	
🕄 Base Color T	6 C-2	
[7] [8] ↑ / ↓ Pa	78 ↑/↓Page	

g. The pattern number specified in each area will be displayed.

If the pattern number is correct, select Yes, and press the OK button.



To respecify the pattern number select No to return to the "Calibration" screen.

h. Select Return, and press the OK button to return to the standby screen.



If the desired color balance is not obtained even after **Base Color Tuning**, adjust the CMY color balance watermarks manually using the procedure under **Adjusting the color balance**. For color balance fine tuning, see "Fine-tuning Color Balance" on page 225.

If the overall tone is still too bright or too dark even after implementing **Base Color Tuning**, adjust the black tone manually using **Fine Color Tuning**, and then implement **Basic color Tuning** again. To brighten the overall tone, adjust the black tone in **Fine Color Tuning** in the - direction, and to darken the overall tone, adjust the black tone in **Fine Color Tuning** in the + direction.

- 4. Check the color balance adjustment results.
 - a. Print the color tuning pattern.
 - b. Use the print results for the color tuning pattern to check the adjusted results.

If the pattern that seems most similar to the adjacent CMY mixed colors part and single color K part in the "Highlight", "Mid-Tone", or "Dark" areas matches the "Current" on the left of the color tuning pattern, the color balance adjustment is complete.

Repeat steps 1 through 3 of this procedure in accordance with the results of your pattern check.

Fine-tuning Color Balance

The printer can implement compensation periodically using auto density compensation mode. However, you can implement this adjustment when you want to finely adjust the gray balance of the halftones, which is not sufficiently adjusted by the auto density compensation.

- The densities of the colors are mutually dependent on each other, so you will need to repeat adjustment several times until the desired color balance is achieved.
- 1. Print a color tuning pattern.
 - a. Press the **Fn** key.

The numerical values input screen will be displayed.



b. Press 3, 0, 2 (function numbers) and press the OK button.

Function Number	
302	
Enter 1-3digit Number	

c. Check that **Execute** has been selected, and press the **OK** button.



d. The color tuning pattern will be printed.

2. Use the print results for the color tuning pattern to check the current color balance.



Check the area to be referenced using "Fine Color Tuning".

The color tuning pattern blocks are arranged in four rows of 11 columns. The four rows are printed with the following colors, from top to bottom: Cyan, Magenta, Yellow and Black.

The 11 columns represent color tone, and vertical broken lines are labeled as Highlight, Mid-Tone, and Dark.

3. Use the print results for the color tuning pattern to adjust the color balance watermarks.

If you are adjusting the color balance, use the control panel to specify the shade (Highlight, Dark, and Mid-Tone) of each color.

This section explains the procedure for slightly darkening the cyan highlights. Adjust the watermarks for colors other than cyan in the same way.

- a. Press the scroll button \blacktriangle or \blacktriangledown .
- b. Select **Calibration**, and press the **OK** button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 🔙 Admin Setup	
5 💽 Print Statistics	
6 Calibration	
 Use Online button to return to standby 	y screen.

c. Select Fine Color Tuning, and press the OK button.



d. Select **Cyan Tuning**, and press the **OK** button.

Fine Color Tuning	1/1 Page
1 Cyan Tuning	
2 Magenta Tuning	
3 Yellow Tuning	
4 Black Tuning	
Ouse Online button to return to st	andby screen.

e. Select Highlight, and press the OK button.

Cyan Tuning	1/1 Page
1 Highlight	
2 Mid-Tone	
3 Dark	



f. Specify a larger value than the current set value, and press the **OK** button. Confirm there is a check mark to the left of the specified value.



Select +0.1 to +4.0 to make density slightly darker, or -0.1 to -4.0 to make it slightly lighter. Note, however, that the black adjustment ranges are +0.1 to +3.0 and -0.1 to -3.0.

- g. Press the **ON LINE** button to return to the standby screen.
- 4. Check the color balance adjustment results.
 - a. Print the color tuning pattern.
 - b. Use the print results for the color tuning pattern to check the adjusted results.

Repeat steps 1 through 3 of this procedure in accordance with the results of your pattern check.

Adjusting Color with a Printer Driver

About Color Matching

It is important to manage the work processes from data creation to output based on methods with color consistency. For example, scanners, digital cameras, and monitors, and other devices express the blending ratio to which the light of red, blue, and green (three colors) have been added to black as values over the RGB color space (additive mixture of colors).

Meanwhile, printers express the blending ratio of the four toner colors cyan, magenta, yellow, and black relative to white (white light), with the three reflected colors red, blue, and green excluded as values in the CMYK color space (subtractive mixture of colors).

The RGB color space and CMYK color space are color spaces dependent on the machine used, and so when converting color spaces, the colors will be different from the reproduced colors unless individual machine characteristics are taken into consideration.

To maintain color consistency from data creation to output, it is necessary to consider the color differences by device when converting colors. This process is called "color matching". The program that implements the color matching is called the "color management system" (CMS).

The printer can use either printer driver color matching or application color matching.

Note: Even if you are using color matching, the printed colors may appear dark compared to the colors on the monitor. This is because the range of colors that can be reproduced by the device is narrower than the range of colors that can be reproduced by the monitor, so even if color matching is used, the vivid colors on the monitor cannot be reproduced.

Color Matching (Automatic)

The procedure below performs recommended color matching for general documents. Generally use the settings shown here.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).

4.	In "Color"	on the	Color tab,	select	Automatic,	and ther	n click Ok	٢.
----	------------	--------	------------	--------	------------	----------	-------------------	----

1	<u>F</u> avorites	
1	Current setting	✓ <u>Save</u> <u>Management</u>
2	<u>C</u> olor Mode:	Color
3		Automatic V Detail
4		Always create 100% <u>b</u> lack (K) toner
-		○ Monochrome
5		Ma <u>n</u> ual settings
6	Spot Color:	Do not use
7		Sp <u>o</u> t color toner quantity adjustment
8		au
9	Toner Saving:	Off ~
\models		Do not save 100% black toner

5. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. On the **File** menu, select **Print**.
- 3. Click **Preferences** (or **Properties**).
- 4. In "Color" on the **Color** tab, select **Automatic**, and then click **OK**.

1	Current setting	(Default setting)	<u>S</u> ave	Management
2	<u>C</u> olor Mode:	Olor		
Paper F		Automatic	•	Detai <u>l</u>
Paper Feed Direction				
^{ction} 5		Monochrome		
6				
7				
8				
9	<u>T</u> oner Saving:	Off	•	
		🔲 Do not save 100% blac <u>k</u> toner		
2 Oui	:kLabel°	Advance	Color S <u>w</u> atch	Default

5. Print.

Simple Color Matching (Simple Adjustment)

Color matching is used on a printer for reproduction of the RGB colors required to print from word processor, spreadsheet, presentation, and other similar software.

Color matching is implemented using a special accelerator (ASIC) that is built into the printer. When converting RGB color space print data to the printer CMYK color space, color matching processing is applied.

 In the case of a Windows PCL printer driver, color matching is not applied even if Automatic or Simple Adjustment is selected for the CMYK color space print data. In this case, select "Graphic Pro".

Setup Items

RGB Color Setting - Specifies the method for expressing the colors processed using color matching.

Monitor - Auto

During color matching, represents color by the most ideal method suited to the document to be printed, emphasizing compatibility with the monitor (color temperature 6500 K). Normally use this setting.

Monitor - Perceptual

During color matching, represents the color by the method emphasizing the gradation suiting the natural image of the photograph and compatibility with the monitor (color temperature 6500K).

Monitor - Vivid

During color matching, represents the color by the method emphasizing the vividness suiting the images and text, and compatibility with the monitor (color temperature 6500K).

Monitor - light

During color matching, represents the color by the method emphasizing the gradation suiting the natural image of the photograph and compatibility with the monitor (color temperature 9300K).

Adobe RGB

Specify if you are using an input device with AdobeRGB color characteristics.

sRGB

The sRGB colors within the printer's color gamut are printed without any modification. Only colors that fall outside the printer's color gamut are matched with the outer shell. Suitable for matching specific colors.

Black Finish - Sets the black finish when printing in color. Normally use Auto as is.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).

4. On the **Color** tab, click **Color**, select **Automatic** or **Simple Adjustment**, and then click **OK**.

1	Current setting	✓ Save Management.
	current setting	<u>zoven</u> anogenena
2	Color Mode:	Color
3		Automatic V Detail
		Always create 100% <u>b</u> lack (K) toner
4		○ Monochrome
5		Ma <u>n</u> ual settings
6	Sgot Color:	Do not use
7		Sp <u>o</u> t color toner quantity adjustment
8	Toner Saving:	Off v
9	Tour sarride	Do not save 100% black toner

5. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Color** tab, click **Color**, select **Automatic** or **Simple Adjustment**, and then click **OK**.

Advance	d Setup	Color Overlays E	Extend		
	1	Current setting	(Default setting)	Save	Management
	2	<u>C</u> olor Mode:	Olor		
Paper F	з		Automatic	•	Detai <u>l</u>
Paper Feed Direction	4				
sction	5		Monochrome		
	6				
	7				
	8				
		<u>T</u> oner Saving:	Off	•	
	9		🔲 Do not save 100% blac <u>k</u> toner		
Ø	Duickl	Label [®] va Division	A <u>d</u> vance	Color S <u>w</u> atch	Default
				ОК	Cancel A

5.

Color Matching (Graphic Pro)

Graphic Pro is the optimal choice for use with DTP software. It lets you specify simulation printing for any CMYK output device.

Windows PCL Printer Driver

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Color** tab, click **Color**, then select **Graphic Pro**, and then click **OK**.

	•	<u>F</u> avorites		
T	-	Current setting	✓ <u>Save</u>	<u>M</u> anagement
	2	<u>C</u> olor Mode:	Color	
Pape	3			etai <u>l</u>
Paper Feed Direction			Automatic Complex Simple Adjustment	
Direct	4		C I Craphic Pro	
jon'	5		Ma <u>n</u> ual settings	
	6	Spot Color:	Do not use	
	7		Sp <u>o</u> t color toner quantity adjustment	
	8			
	9	Toner Saving:	Off ~	
Ĺ			Do not save 100% blac <u>k</u> toner	

5. Print.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).

Examp	I Setup Ie	Color Overlays			
•	1	-	(Default setting)	Save	Management
	2	<u>C</u> olor Mode:	Olor		
Paper F	з		Automatic	•	Detai <u>l</u>
Paper Feed Direction	4				
ction	5		Monochrome		
	6				
	7				
	8				
	9	<u>T</u> oner Saving:	Off	•	
			Do not save 100% blac <u>k</u> toner		
	2uick	Label" ova Division	Advance	Color S <u>w</u> atch	Default

4. On the **Color** tab, click **Color**, then select **Graphic Pro**, and then click **OK**.

5. Print.

Color Matching (No Color Matching)

Prints using the specified colors as is, without implementing color matching using the printer drivers or device.

Select if implementing color matching using an application.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).

1	Eavorites Current setting	✓ <u>S</u> ave <u>M</u> anagement
T ⁻	current setting	- <u>gaven</u> <u>m</u> onagementin
2	Color Mode:	Color
Pape 3		Mo Color Matching V Detail
rFeec		Always create 100% black (K) toner
Paper Feed Direction		OMonochrome
^{tion} 5		Ma <u>n</u> ual settings
6	Spot Color:	Do not use
7		Sp <u>o</u> t color toner quantity adjustment
8		
	Toner Saving:	Off ~
9		Do not save 100% black toner

4. On the **Color** tab, click **Color**, then select **No Color Matching**, and then click **OK**.

5. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. On the **File** menu, select **Print**.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Color** tab, click **Color**, then select **No Color Matching**, and then click **OK**.

1	Eavorites	(Default setting)	Save	Management
2	<u>C</u> olor Mode:	Olor		
Paper Feed Direction		Automatic	▼	Detai <u>l</u>
eed Diree				
5		Monochrome		
6				
7				
8				
9	<u>T</u> oner Saving:	Off	•	
]	🔲 Do not save 100% blac <u>k</u> toner		
🕅 Quid	kLabel [®]	Advance	Color S <u>w</u> atch	Defa <u>u</u> lt

5. Print.

Changing the Black Finish

The finish for the black parts will be changed when printing in color. This can be used when the printer driver's color mode setting is **Simple Adjustment** or **Graphic Pro**.

Setup Items

Black Finish

Auto

Creates black using the optimum methods according to the document to be printed. This setting can be selected only when the color mode is set to **Simple Adjustment**. This setting cannot be configured on the Graphic Pro.

Composite Black (CMYK)

Synthesizes black using cyan, magenta, yellow, and black toner. The black is close to brown. Ideal for photos.

True Black (K)

Prints black using black toner only. Ideal for diagrams and documents. When printing photos, the dark parts are blackish.

Pure Black Text/Graphics (Graphic Pro Only) - If black defined using the RGB color space for text and graphics (R=0, G=0, B=0) or black defined using the CMYK color space (C=0, M=0, Y=0, K=100%) is specified, this setting specifies whether printing should use black (K) toner only.

• ON

Prints the text and graphics specified as black using black (K) toner only.

• OFF

Text and graphics specified as black are synthesized using either black (K) toner only or CMYK depending on the profile specified by color matching.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the Color tab, select Simple Adjustment or Graphic Pro.

5. In the **Black Finish** section, select the black finishing method. In the **Graphic Pro** mode, also select ON or OFF for **Pure Black Text/Graphics**, and then click **OK**.

<u>C</u> olor Mode	RGB Color Setting Color matching options
This color setting is optimum for every document. Simple Adjustment This color setting is for office documents.	Monitor - Auto
O Graphic Pro This color setting is for graphic documents.	Ottomp Black (K) Adjust Darkness Brightness: 0 Saturation: 0
O No Color Matching This color setting is for color matching in an application.	saturation:

6. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the Color tab, select Simple Adjustment or Graphic Pro, and then click Detail.
- 5. In the **Black Finish** section, select the black finishing method. In the **Graphic Pro** mode, also select ON or OFF for **Pure Black Text/Graphics**, and then click **OK**.

RGB Color Settings	The second s
<u>C</u> olor Settings	
Monitor - Auto	
CMYK Ink Simulation	<u>B</u> lack Finish
None	 Auto
	 Composite Black (CMYK)
	True Black (K)

6. Print.

Monochrome (Black and White) Printing

The color data is printed using grayscale (shades of black and white) without touching the print data.

Note: If implementing color printing after printing by specifying "Monochrome", a delay may occur depending on the temperature adjustment of the fuser unit.

- Even if the cyan (blue), magenta (red), or yellow print cartridge life has been reached, monochrome printing using only black can be done by specifying "Monochrome".
- Refer to "Printing Using the Specified Print Cartridge Only (Lift Up)" on page 184 regarding printing with black only.

Windows PCL Printer Driver

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Color** tab, select **Monochrome**. Adjust lightness and darkness as required.

1	<u>F</u> avorites				
1	Current setting		~	<u>S</u> ave	<u>M</u> anagement.
2	<u>C</u> olor Mode:	◯ Color			
з		Graphic Pro		~	Detai <u>l</u>
4		 Always create 100% blac Monochrome 	:k (K) toner		
5		Manual settings			
6	Spot Color:	Do not use		~	
7		Sp <u>o</u> t color toner quan	itity adjustment.		
8					
9	Toner Saving:	Off		\sim	
Ħ		Do not save 100% blac <u>k</u>	toner		

5. Print.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).

Examp	le 1	Eavorites		(Server	Management
Τ	2	<u>C</u> olor Mode:	 Color 	<u>S</u> ave	<u>M</u> anagement
Paper Fe	з		Automatic	•	Detai <u>l</u>
Paper Feed Direction	4		Monochrome		
3	5		() Monochrome		
	6				
	7 8				
	9	<u>T</u> oner Saving:	Off	•	
			🔲 Do not save 100% blac <u>k</u> toner		
		Label [®] va Division	A <u>d</u> vance	Color S <u>w</u> atch	Defa <u>u</u> lt

4. On the **Color** tab, select **Monochrome**. Adjust lightness and darkness as required.

5. Print.

Suppressing White Lines Between Text and the Background (Black Overprint)

If you are imaging 100% black text on a colored background, you can print (overprint) by overlaying the text and background parts. Set if there are gaps such as white lines, etc., in the borders between the text and background.

- Not usable with some applications.
- Black overprint cannot be used if the text is not 100% black, the text has been rendered as graphics by extracting the outlines, or if the text is an image.
- If the background color is dark (toner layer thickness exceeds 240%), toner may not be fixed completely. For example, if printing 100% black text on backgrounds of 50% cyan, 50% magenta, and 50% yellow, the toner layer thickness is 50+50+50+100=250%, which exceeds 240%.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Extend** tab, click **Advanced**.

5. Select **Overprint Black**. Next, for **Settings**, select **On**, and then click **OK**.

Advanced		×
Overprint Bla Adjust for ov Adjust ultra f Job Spool	yout when resizing document ck erlapping colors	Setting On Off Off Off On Off Off Printer setting
<u>S</u> ettings Description	Overprint Black Off	/
Eliminates w	hite outlines produced by misregistrat a a colored background.	ion around black
	OK Cancel	<u>H</u> elp Defa <u>u</u> lt

6. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Color** tab, click **Advanced**.
- 5. Select the **Black overprint** check box, and then click **OK**.

6. Print.

Correcting for Print Misalignment (Trapping)

Use if there are white or colored lines between two overlapping objects due to print misalignment.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Extend** tab, click **Advanced**.

5. Select **Trapping**. Next, select the misalignment correction method with **Settings**, and then click **OK**.

ltem			Setting
Reduce Size of Keep page layo Overprint Black Adjust for over Adjust ultra fin Job Spool	ut when resizing document c lapping colors		On Off Off Off On Off Off
Trapping	ice cycle before printing		Printer setting
	Trapping		
Settings	Printer setting	\sim	
Description	Printer setting		
Trapping create compensates for of an image. Tr	Narrow / Choke White	g th	olor. This e C, M, Y and K layer or color lines

Selections that include **Choke White** are only shown for the QL-300s.

6. Print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Extend** tab, click **Advanced**.
- 5. Select the misalignment correction method in **Trapping**, and then click **OK**.



Selections that include Choke White are only shown for the QL-300s.

6. Print.

Simulating Print Results

The printer adjusts CMYK color data to simulate the characteristics of ink, such as that used in offset printing.

The ICC profiles registered as standard are described below.

RGB Profiles

- sRGB
- AdobeRGB

CMYK Input Profiles

- SWOP
- ISO Coated
- Japan Color
- JMPA

Note: Enabled when Color Mode is set to either Simple Adjustment or Graphic Pro.

Windows PCL Printer Driver

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the Color tab, click Detail, and then select Graphic Pro.
- 5. Select **Printer Simulation**, and then use the list under **Simulation Target Profile** to select the ink characteristics you want to simulate.

Color Setting Details		
Color Mode O Automatic This color setting is optimum for every document.	 ICC Profile Color Matching Printer Simulation Disable color matching for p 	rofile creation
O Simple Adjustment This color setting is for office documents.	Input Profile RGB Profile sRGB ~	Output Profile Printer Profile Resident Profile V
Graphic Pro This color setting is for graphic documents.	Simulation Target Profile	Rendering Intent
O No Color Matching This color setting is for color matching in an application.	NONE SWOP ISO Coated JapanColor JMPA CMYK Source 1 CMYK Source 2	Black Finish Composite Black (CMYK) 🗸
Color <u>S</u> watch	CMYK Source 3 CMYK Source 4 CMYK Source 5	Cancel <u>H</u> elp Defa <u>u</u> lt

- 6. Click OK.
- 7. Print.

- 1. Open the file to be printed.
- 2. On the File menu, select Print.
- 3. Click **Preferences** (or **Properties**).
- 4. On the Color tab, select Graphic Pro, and then click Detail.

5. Select **Printer Simulation**, and then use the list under **Simulation Target Profile** to select the ink characteristics you want to simulate.

raphics Pro Details	
ICC Profile Color Matching	
Printer Simulation	
Disable color matching for profile creating	ion
O Use application color matching	
Input RGB Profile	Printer Output Profile
sBGB -	Output Profile
Simulation Target Profile	Rendering Intent Perceptual
✓ Preserve Black	
	<u>B</u> lack Finish
Color <u>M</u> atch Precision	Composite Black (CMYK) 🔻
Speed Quality	Vere Black <u>T</u> ext/Graphics
	OK Cancel Default

- 6. Click OK.
- 7. Print.

Spot Color Printing Setup (QL-300s Only)

Printer Driver Spot Color Function List

This section explains the Spot Color toner functions in the printer drivers.

Windows PCL Printer Driver

Click the **Color** tab to display the screen for setting the spot color toner.



Ite	em	Description
Usage Method	Do not use	Prints without using white toner.
	Full page	Uses white toner for the entire page being printed.
	Data portion (Excluding white)	Uses white toner for all data parts that do not include white parts.
	Data portion (Including white)	Uses white toner for all data parts that include white parts.
	Printing only spot color toner	Prints with white toner only.
	Watermarks/Overlays	Prints the selected watermark and overlay with white toner.
Spot color toner quantity adjustment	0 to 100	Adjusts the amount of white toner used while printing.

Windows PS Printer Driver

Click the **Color** tab to display the screen for setting the spot color toner.



Ite	Item	
Spot Color	Do not use	Prints without using white toner.
	Full page	Uses white toner for the entire page being printed.
	Data portion (Excluding white)	Uses white toner for all data parts that do not include white parts.
	Data portion (Including white)	Uses white toner for all data parts that include white parts.
	Printing only spot color toner	Prints with white toner only.
	Application specification	Allows you to specify white toner from the application.
Spot color toner quantity adjustment	0 to 100	Adjusts the amount of white toner used while printing.
	Don't layer white toner for 100% black	Select whether to do overlaying on white toner when printing text or lines at 100% black.

Printing on Color Media

Usable Color Media

Use color media that satisfies the following conditions.

- Pigment or ink used to color the media heat-resistant to 230°C
- E-photo printer media with the same characteristics as plain media

Printing Using White Toner Only

Printing text and illustrations using only white toner on color paper.

Before printing, check that the white print cartridge has been installed in the device, and that white toner has been selected using the printer drivers.

Note: If you specify "Print Only with Spot Color" and lift up all the other colors of cartridges, you can print with only spot colors, even if one of the black, cyan, magenta, or yellow print cartridges has reached the end of its service life.

- 1. Open the file to be printed.
- 2. Select Page Setup in the File menu.
- 3. Select the paper size and print orientation, and then click OK.
- 4. Select **Print** in the **File** menu.
- 5. Click **Preferences** (or **Properties**).
- 6. Use Media Type to select the paper type.
- 7. Use Media Weight to select an appropriate value.
- 8. Click the **Color** tab.

1	Current setting	~	Save	Management
	Current setting	Ŷ	<u>3</u> ave	<u>M</u> anagement
2	Color Mode:	Color		
3		Automatic	\sim	Detai <u>l</u>
		Always create 100% <u>b</u> lack (K) toner	r	
4		○ Monochrome		
5		Ma <u>n</u> ual settings		
6	Spot Color:	🕖 Do not use	~	
		Do not use		
7		Full page		
8		Data portion (Including white)		
ð		Printing only spot color toner		
9	Toner Saving:	-Wi	-	
		Do not save 100% blac <u>k</u> toner		

- 9. For Usage Methods, select Printing only spot color toner, and then click OK.
- 10. Click **Print** in the "Print" screen to print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. Click the **Color** tab.

- Exam	1	Favorites Current setting(Default setting) 🔹	Save Management
	2	Color Mode:	Olor	
Paper F	з		Automatic	▼ Detail
Paper Feed Direction	4			
otion	5		Monochrome	
	6	Spot Color:	Do not use	
	7		Full page	
	8		Data portion (Including white) Printing only spot color toner Application specification Off	
	9	Toner Saving:	Off	•
	\square		🔲 Do not save 100% black toner	
			Advance	Color Swatch Default

- 5. For Spot Color, select Printing only spot color toner, and then click OK.
- 6. Click **Print** in the "Print" screen to print.

Printing White Below a Color (Spot Color Overprint)

When printing on color paper, print a base with white toner, and then print in color on top of that.

- 1. Open the file to be printed.
- 2. Select **Page Setup** in the **File** menu.
- 3. Select the paper size and print orientation, and then click **OK**.
- 4. Select **Print** in the **File** menu.
- 5. Click **Preferences** (or **Properties**).
- 6. Use **Paper settings** to select the paper type.
- 7. Click the **Color** tab.
- 8. For the **Spot Color** setting, select one of the following: **Full page**, **Data portion** (Excluding white), Data portion (Including white), or Watermarks/Overlays.

- 9. Click **OK**.
- 10. Click **Print** in the "Print" screen to print.

Windows PS Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. Click the **Color** tab.
- 5. For the **Spot Color** setting, select one of the following: **Full page**, **Data portion** (Excluding white), **Data portion** (Including white).
- 6. Click OK.
- 7. Click **Print** in the "Print" screen to print.

Adjusting the White Image from the Application

By adjusting the file from the application, the registration misalignment may not be noticeable. If the misalignment is not fixed after adjusting the position and size, adjust the white image with the application. Adobe Illustrator will be used as an example for the adjustment method.

- 1. Open the data with white misalignment.
- 2. Create a new layer. Name the layer "SpotColor", and create this at the top.
- 3. Open the swatch window, and click the "New Swatch" button.

Enter SpotColor_White as its name, and select Spot Color for the color type.

Note: Please enter the name as given above. White toner will not be recognized if you make a mistake in the entries.

- 4. Copy the object to be filled with spot color white to the "SpotColor" layer.
- Select the copied object, and set the fill to "SpotColor_White:100%" and the border to "SpotColor_White:0%". For outlines, select Object > Path > Path Outline, and set the fill and border after it been changed to Object.
- 6. Open the attribute window, and select **Overprint Fill** and **Overprint Stroke**.
- 7. Select File > Print. Select the QL-300 printer.
- 8. Go to Advanced > Overprints, and select Simulate.
- 9. Click Setup.
- 10. Click **Preferences**.
- 11. On the Color tab, select Application specification in Spot Color.
- 12. Print.

Printing by Using Applications to Specify Spot Color Toner (PS Printer Drivers Only)

Using Adobe Illustrator

This explanation uses Adobe Illustrator CC as an example.

Adding Swatches

If using Spot Color (white), specify the swatches added for the objects to be Spot Color printed.

- 1. Open the swatch panel, and select new swatch.
- 2. Enter **SpotColor_White** in **Swatch Name**.
- 3. Select **Spot Color** in **Color Type**.

Printing

If printing Spot Color, make the settings using the application print dialog box.

- 1. Click **Advanced** from the menu on the left of the print dialog box.
- 2. Select **Simulate** in **Overprints**.
- 3. Click **Print**.

Windows PS Printer Driver

- 1. Select Windows PS printer drivers, and click **Preferences**.
- 2. On the Color tab, select Application specification in Spot Color, and then click OK.
- 3. Print.

Using Adobe Photoshop

This explanation uses Adobe Photoshop CC as an example.

Adding Spot Color Channels

If using Spot Color (white), specify the Spot Color channels added for the objects to be Spot Color printed.

- 1. Open the channel panel, and select a new Spot Color channel.
- 2. Enter **SpotColor_White** in **Name**.

Saving in PDF Format

Spot Color printing directly from Adobe Photoshop is not possible, so initially save the file in PDF format.

Printing

- 1. Open the file that has been saved in PDF format using Adobe Acrobat or Adobe Acrobat Reader.
- 2. Select **File > Print** to open the print dialog box.
- 3. Click Advanced.
- 4. Select **Color** from the menu on the left of the **Preferences** dialog box, and select **Simulate overprint**. (If using Adobe Acrobat Reader, click **Advanced**, and then select **Simulate overprint**.)
- 5. Click **OK** to return to the print dialog box.

Windows PS Printer Driver

- 1. Select Windows PS printer drivers, and click **Preferences**.
- 2. On the Color tab, select Application specification in Spot Color.
- 3. Print.

Fine-Tuning White Shading

Finely adjust the shade for each white highlight, dark, mid-tone gradation using the printer control panel.

Here, we will show the procedure for slightly darkening white highlights.

1. Press the scroll button \blacktriangle or \blacktriangledown .



2. Select Calibration, and press the OK button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 🕶 Admin Setup	
5 🗪 Print Statistics	
6 Calibration	
Use Online button to return to standby	screen.

3. Select **White Tuning**, and then press the **OK** button.

Calibration	2/2 Page
Fine Color Tuning	
2 Reset Color Tuning	
3 White Tuning	
4 Density Adjustment Media	
7 8 ↑ / ↓ Page	

4. Select **Highlight**, and press the **OK** button.

White Tuning	1/1 Page
1 Highlight	
2 Mid-Tone	
3 Dark	
Use Online button to return to stand	lby screen.

5. Specify a value that is larger than the current set value, and then press the **OK** button. Confirm there is a check mark to the left of the specified value.



A larger value represents darkening, while a smaller value represents lightening.

6. Press the **ON LINE** button to return to the standby screen.




Network Settings

Initializing Network Settings

Implementing this operation will initialize all network settings.

1. Press the scroll button ▼ several times to select Admin Setup, and then press the OK button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 🗪 Admin Setup	
5 🗪 Print Statistics	
6 Calibration	
Use Online button to return	to standby screen.

2. Use the numeric keypad to input the administrator password.

The factory default password is 999999. Press the **OK** button after inputting each character.

(6 - 12 digits)		
_			
Use Online bu	tton to retu	irn to stand	by screen.

3. Select **Network Setup**, and then press the **OK** button.

Admin Setup	1/2 Page
1 Network Setup	
2 USB Setup	
3 Print Setup	
4 PS Setup	
5 PCL Setup	
6 Color Setup	
7 8 ↑ / ↓ Page	

4. Select **Network Factory Defaults**, and then press the **OK** button.

Network Setup	2/2 Page
1 IPSec	
2 SNMP	
3 Network Scale	
4 Gigabit Network	•
5 Hub Link Setting	
6 Network Factory Defaults	
7 8 ↑ / ↓ Page	

5. When **Execute** appears, press the **OK** button.



6. Initialization is executed, and the display returns to the standby screen.

Using DHCP

IP addresses can be acquired from a DHCP server.

PC administrator privileges are required for the setup.

Caution: Incorrectly allocating the IP address may cause major malfunctions such as crashing of the network. Thoroughly consult the network administrator before making the settings.

To use the device in a DHCP environment, select **Auto** as the IP address setting method.

Also note that **Auto** is the IP address setting method under factory default settings, so performing this procedure is normally not necessary.

1. Press the scroll button ▼ several times to select Admin Setup, and then press the OK button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 🖛 Admin Setup	
5 🕶 Print Statistics	
6 Calibration	
Use Online button to return to	standby screen.

2. Use the numeric keypad to input the administrator password.

The factory default password is 999999. Press the **OK** button after inputting each character.

(6-	2 digits)		

3. Select **Network Setup**, and then press the **OK** button.

Admin Setup	1/2 Page
1 Network Setup	
2 USB Setup	
3 Print Setup	
4 PS Setup	
5 PCL Setup	
6 Color Setup	
78 ↑/↓ Page	

4. Select **IP Address Set**, and then press the **OK** button.

Network Setup	1/2 Page
1 тср/ір	Π
2 NetBIOS over TCP	
3 IP Address Set	
4 Web	
5 Telnet	
6 FTP	
7 8↑/↓Page	

5. Select **Auto**, and then press the **OK** button.



6. Press the **ON LINE** button to return to the standby screen.



Using BOOTP

To use the printer in a BOOTP environment, select **BOOTP** as the IP address setting method.

1. Access the printer web page and log in as an administrator.

See "Web Utility" on page 414.

- 2. Select Admin Setup.
- Select Network Setup > TCP/IP > Change Settings > Get IP address automatically (BOOTP).

4. Click **Submit**.

IPv6

This printer is compatible with IPv6, and the IPv6 address is acquired automatically. IPv6 addresses cannot be set manually.

The device is compatible with the following protocols.

Printing:

- LPR
- IPP
- RAW (Port9100)
- FTP

Setup:

- HTTP
- SNMPv1/v3
- Telnet

Checking the IPv6 Address

IPv6 addresses are allocated automatically.

1. Access the printer web page and select **Device information**.

Note: Refer to "Web Utility" on page 414 regarding the printer web page.

2. Select **Network > TCP/IP**.

If all the global addresses are displayed as "0", it is possible an error has occurred in the router being used.

Press the scroll buttons to select **Print Information > Configuration** to check the IPv6 address using the configuration report. For reports and information about how to print them, see "Printing Configuration Information" on page 257.



Printing Configuration Information

Printable Report List

List Name	Description	
Configuration	Prints the table of all menu category items and the current settings. Further, the advanced printer settings are also printed in the page header.	
Demo Page	Prints the demo print data stored in the printer.	
File List	Prints the file list.	
Usage Report	Prints the total print results.	
Error Log	Prints the errors detected and saved by the printer.	
Color Profile List	Prints the color profile list.	
Color Adjustment Pattern	Prints the patterns to match the shading characteristics.	
User Media List	Prints the user media list.	
Test Print-1	Prints the patterns for analyzing the print quality.	
Test Print-2	Prints the patterns for analyzing CYMK print quality.	
Test Print-3	Prints the patterns for analyzing the status of the print cartridges.	
Test Print-4	Prints the patterns for analyzing print quality of the spot colors. Displayed with QL-300 only.	
Cleaning Page	Prints the toner-free white sheet to remove dirt from the surface of the fuser belt in the fuser unit.	

• Paper is cut at a fixed length when printing a report, so do not use die-cut label paper.

- To attain the full benefit of the report printing function, load paper that is 130 mm wide.
- Printing is canceled if a print cartridge for a color that is required for report printing is not lifted down.

Printing Printer Setup Lists

Configuration

Print the device information.

Print to see the remaining quantity of wear items and other set values such as IP addresses and MAC addresses, and to check whether the printer is operating correctly, etc.

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press 1, 0, 0 (function numbers), and then press the **OK** button.

Function Number	
100	
Enter 1-3digit Number	

3. Confirm that **Execute** is selected, and then press the **OK** button.



Printing Printer Information Lists

Demo Page

Prints demonstration pages.

- 1. Press the scroll button ▼ several times, and when **Print Information** appears, press the **OK** button.
 - Functions1/1 Page1 Configuration2 Print Information3 Menus4 Admin Setup5 Print Statistics6 CalibrationUse Online button to return to standby screen.
- 2. Select **Demo Page**, and then press the **OK** button.

Print Information	1/2 Page
1 Configuration	
2 Demo Page	
3 File List	
4 Usage Report	
5 Error Log	
6 Color Profile List	
78 ↑/↓ Page	

- 3. When **DEMO1** appears, select one of the items to be printed, and then press the **OK** button.
- 4. Confirm that **Execute** is selected, and then press the **OK** button.



Error Log

Prints the history of the errors that have occurred in the device.

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press **1**, **0**, **3** (function numbers), and then press the **OK** button.

unction Number
103.
Enter 1-3digit Number

3. Confirm that **Execute** is selected, and then press the **OK** button.



Usage Report

Prints the total print results.

Note: Not displayed if Usage Report of Print Statistics is set to Disable.

1. Press the **Fn** key.

The numerical values input screen will be displayed.



2. Press 1, 0, 2 (function numbers), and then press the OK button.

Func	tion Numb	er			
1	02.				
E	nter 1-3di	git Numbe	er		
		-			

3. Confirm that **Execute** is selected, and then press the **OK** button.



4. Use the numeric keypad or the scroll buttons to specify the number of copies, and then press the **OK** button.



Printing Print Lists

Color Profile List

Prints the table of the ICC profiles registered on the printer.

1. Press the scroll button ▼ several times, and when **Print Information** appears, press the **OK** button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 🗲 Admin Setup	
5 🕶 Print Statistics	
6 Calibration	
Use Online button to return to s	tandby screen.

- 2. Select **Color Profile List**, and then press the **OK** button.
 - Print Information
 1/2 Page

 1 Configuration
 2

 2 Demo Page
 3

 3 File List
 4

 4 Usage Report
 5

 5 Error Log
 6

 6 Color Profile List
 7

 7
 1 / ↓ Page
- 3. Confirm that **Execute** is selected, and then press the **OK** button.

Print Information	Color Profile List	1/1 Page
1 Configuration	1 Execute	
2 Demo Page		
3 File List		
4 Usage Repor		
5 Error Log		
Color Profile		
[7]8] 1/↓ ₽₽	Use Online button	to return to s

User Media List

Prints the table of the user media registered to the device.

Note: Displayed when the user media is registered.

1. Press the scroll button ▼ several times, and when **Print Information** appears, press the **OK** button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	· · · · · · · · · · · · · · · · · · ·
4 🗪 Admin Setup	
5 🕶 Print Statistics	
6 Calibration	
Use Online button to return to s	standby screen.

2. Select **User Media List**, and then press the **OK** button.

Print Information	2/2 Page
1 User Media List	
2 Test Print-1	
3 Test Print-2	
4 Test Print-3	
5 Test Print-4	
6 Cleaning Page	
7 8 ↑ / ↓ Page	

3. Confirm that **Execute** is selected, and then press the **OK** button.

Print Information	User Media List	1/1 Page
🚺 User Media L	1 Execute	
2 Test Print-1		
3 Test Print-2		
4 Test Print-3		
5 Test Print-4		
6 Cleaning Pag		
7811 Pa	🔵 Use Online button	to return to s

Test Print

Prints the print quality lists.

- Test Print-1 Prints the patterns for analyzing the print quality.
- Test Print-2 Prints the patterns for analyzing CMYK print quality.
- Test Print-3 Prints the patterns for analyzing the status of the print cartridges.
- Test Print-4 Prints the patterns for analyzing print quality of the spot colors (white). Displayed with QL-300s only.
- 1. Press the scroll button ▼ several times, and when **Print Information** appears, press the **OK** button.

Functions	1/1 Page
Configuration	
2 Print Information	
3 Menus	3
4 🕶 Admin Setup	
5 - Print Statistics	
6 Calibration	
Use Online button to return to s	tandby screen.

2. Select **Test Print-1**, **Test Print-2**, **Test Print-3**, or **Test Print-4**, and then press the **OK** button.

Print Information	2/2 Page
🚺 User Media List	
2 Test Print-1	
3 Test Print-2	
4 Test Print-3	
5 Test Print-4	
6 Cleaning Page	
7 8 ↑ / ↓ Page	

3. When **Execute** appears, press the **OK** button.

Print Information	Test Print-1	1/1 Page
1 User Media L	1 Execute	
2 Test Print-1		
3 Test Print-2		
4 Test Print-3		
5 Test Print-4		
6 Cleaning Pag		
[7]8]1/1 Pa	🔵 Use Online butto	on to return to s

Changing the Administrator Password

Change the administrator password. The factory default setting is 999999.

1. Press the scroll button ▼ several times to select Admin Setup, and then press the OK button.

Functions	1/1 Page
Configuration	
2 Print Information	
3 Menus	
4 🕞 Admin Setup	
5 - Print Statistics	
6 Calibration	
Use Online button to return to s	tandby screen.

2. Enter the administrator password, and then press the **OK** button.

Enter Password

(6 - 12 digits)
◯ Use Online button to return to standby screen.
word and then press the OK button

3. Select Change Password, and then press the OK button.

Admin Setup	2/2 Page
1 Panel Setup	
2 Time Setup	
3 Power Setup	
4 Others Setup	-
5 Settings	
6 Change Password	
7 8 ↑ / ↓ Page	

4. Enter the new password, and then press the **OK** button.

Specify a password that is at least six characters long.



5. Re-enter the new password, and then press the **OK** button.



6. Press the **ON LINE** button to return to the standby screen.



Checking the Print Count

You can check the quantity of paper printed from the unwinder to date.

1. Press the scroll button ▼ several times to select **Configuration**, and then press the **OK** button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 💽 Admin Setup	
5 • Print Statistics	
6 Calibration	
Use Online button to return to standby s	screen.

2. Select **Feeder Count**, and then press the **OK** button.

Configuration	1/1 Page
1 Feeder Count	
2 Supplies Life	
3 Network	
4 System	
Use Online button to return to sta	andby screen.

3. Select the feeder you want to check.

Feeder Count	1/1 Page
1 Unwinder	
Ouse Online button to return to star	ndby screen.

4. Press the **OK** button.



5. Press the **ON LINE** button to return to the standby screen.



Troubleshooting

12

Troubleshooting Solutions Procedure

This chapter describes the procedure for solving problems that occur while using the printer. If you are unable to solve the problem with this procedure, contact Technical Support.

Troubleshooting when an error message is displayed

- 1. If a paper jam error appears, refer to "Paper Jams" on page 268.
- 2. If a message about the replacement schedule or service life of wear items appears, refer to "Messages about Replacing Wear Items" on page 299.
- 3. If other errors appear, refer to "Messages about Other Issues" on page 301.
- 4. If you cannot solve the problem, record the message displayed on the control panel. Contact Technical Support.

Troubleshooting when an error message is not displayed

- 1. If trouble occurs, refer to the following pages for solutions.
 - "Unable to Print" on page 308
 - "Printer Driver Malfunctions" on page 313
 - "Print Quality Is Poor" on page 315
 - "Paper Feed Is Poor" on page 327
- 2. If you cannot solve the problem, contact Technical Support.

Paper Jams

This section describes the procedure when paper is jammed inside the printer, when part of a piece of paper that is being removed is left inside the printer, or when paper is left inside the printer because an error occurred and caused printing to stop.

Condition of paper

• **Unload** - Indicates that the paper is not set on the F0 roller on the unwinder.



Stand-by - Indicates that paper is set on F0 roller on the unwinder.



• **Through paper** - Indicates that paper is passing through the printer from the unwinder.



Checking Messages (if a paper jam occurs)

When paper is jammed inside the printer, or when paper is remaining inside the printer even after removing it, a message notifying paper jam will appear on the display screen of the control panel, and the **ATTENTION** lamp will blink. Or, when an error occurs causing printing to stop and leaves paper inside the printer, an error notification message appears on the display screen on the control panel, and the **ATTENTION** lamp blinks.

When "Please see HELP for details" is shown in the message, pressing the **HELP** button in the control panel will show the troubleshooting procedure, and you can easily solve the process according to the guidance. See "Operating the Help Screen" on page 271.



- 1. Display screen
- 2. HELP button
- 3. ATTENTION lamp

Category	Message displayed on the display screen	Error code displayed after pressing the HELP button
Paper jam (When paper is jammed inside the printer)	Open Unwinder Cover Paper Jam Please see HELP for details	391
	Open Top Cover Paper Jam Please see HELP for details	380 381
	Check Fuser and Exit Unit Paper Jam Please see HELP for details	382
	Remove Paper Printing Page Lost Please see HELP for details	389
	Check Fuser Unit Paper Feed Jam Please see HELP for details	386
Message does not disappear (When the message does not disappear even after removing the jammed paper)	Open Unwinder Cover Paper Remain Please see HELP for details	631
Janmeu paper)	Open Top Cover Paper Remain Please see HELP for details	637 638
	Check Fuser and Exit Unit Paper Remain Please see HELP for details	639

The following table shows the messages. Check the message, and remove the jammed paper according to the procedure described in the reference.

Category	Message displayed on the display screen	Error code displayed after pressing the HELP button
When paper is left inside the printer because an error occurred and the printer stopped	Paper Detection Error %SENSOR_ERROR% Please see HELP for details	7381
	Open Unwinder Cover Roll Paper End Please see HELP for details	7311
	Change Paper in Unwinder Roll Paper End Please see HELP for details	7310
	Check Installed Paper Mark Detection Error Please see HELP for details	7306
	Paper Feed Error Please see HELP for details	7319 7372
	Check Paper Roll Paper Slack Winding Error Please see HELP for details	7314
	Check Paper Roll Paper Set Sensor Error Please see HELP for details	7315

Note: Error code 389 may appear when there is no paper left inside. If it appears when there is no paper jam, open and close the top cover to clear it. If error code 389 appears many times, or if it does not clear, contact Technical Support.

Operating the Help Screen

Pressing the **HELP** button in the control panel will display the solution method. You can easily remove the paper according to the guidance.

Example: When paper is jammed inside the printer

The following message will appear on the display screen, and the ATTENTION lamp will blink.



1. Press the **HELP** button.

The error code will appear and the condition of paper jam will be displayed.

Help (Error Code:380)	1/48 Page
[Context]	
Paper jam occurred in the paper path.	

2. Press the scroll button $\mathbf{\nabla}$.

The next page will appear, and solution procedure for paper jam will be displayed.



Press the scroll button \blacktriangle to return to the previous page.

3. Scroll the pages of the Help screen with the scroll buttons, and remove the paper according to the solution procedure for the paper jam displayed on the screen.



Removing the jammed paper will return the display to the Standby screen and the remaining printing will start.

Removing Jammed Paper

Use the following instructions to remove jammed paper. This procedure can be used to resolve error codes 380, 381, 382, 386, 389, 391, 631, 637, 638, 639, 7381, 7310, 7306, 7319, 7372, 7311, 7314, and 7315.

1. Use scissors to cut the jammed paper.



For labels, cut in the space between labels. If the paper is feeding, cut it on the output side too.

2. Lower the unwinder cover open lever to open the unwinder cover.



Note: Securely open the unwinder cover so it does not close while cleaning.

3. Turn the roll paper holder in the direction of the arrow to wind up the roll paper.



4. Raise the cutter unit lock levers at both ends of the cutter unit.



5. Raise the F0 roller release lever.



If any paper is left in the printer, do not forcefully remove it.



6. Grasp the top cover open lever and open the top cover.



7. Remove the print cartridge set.



8. Place the removed print cartridge set on a flat surface covered with newspaper or something similar, and cover it with paper so it is not exposed to direct light.



9. Turn the two belt locking keys counterclockwise to release the lock.



10. Hold the belt unit handles (blue) on the left and right, and remove the belt unit at an angle.



Caution: Be careful not to spill waste toner while removing the belt unit.

Caution: Be careful to not pinch your hands or fingers between the handle and the machine while removing the belt unit.

Caution: When removing the belt unit, do not tilt it further than is needed to remove it.

11. Place the belt unit with the right side down on a flat surface covered with paper.



Caution: Place the belt unit on a flat surface, as shown in the diagram above. Do not stand it on its side.



Caution: Do not touch the belt surface or damage the belt.



12. Pull up the paper guide release lever.





13. While the paper guide release lever is lifted, slide the paper guide in the direction of the arrow to remove it.



14. If any paper is jammed, pull it out in the direction of the arrow.



There may be some unfused toner on the paper.



Caution: Be careful, the fuser unit is very hot immediately after printing.

15. If paper is being output from the printer, use scissors to cut it between two labels.



16. While pulling the fuser and exit unit locking lever towards you, pull out the fuser and exit unit.



- 17. While supporting the fuser and exit unit with one hand, lift up the fuser unit handle.

18. Hold the fuser and exit unit with both hands and remove it to a level spot.



Caution: Be careful, the fuser unit is very hot immediately after printing.

19. Slowly pull the paper straight out so it does not overlap.



20. Lower the release lever of the fuser and exit unit, open the exit feed cover and put the fuser unit handle below the exit feed cover.









21. Slowly pull out the paper that is left in the fuser and exit unit in the direction of the arrow.



22. Close the exit feed cover.



23. Lift the fuser and exit unit with both hands and put it into the printer.



24. Push down the fuser unit handle, and firmly push it inside.


25. Lift up the fuser and exit unit locking lever.





26. Raise the blue lever in the unwinder, and then remove the cutter unit.

Be careful that the cutter unit does not hit the sensor cover (upper) when removing it.

27. Check for any paper or paper dust that has accumulated in the cutter unit, and remove any that has accumulated.



28. Remove any paper that is left in the paper feed path in the unwinder.



29. Raise the blue lever and install the cutter unit.







30. Align the positions of the paper guide's edge (1) and the guide notch on the printer.



Guide notch



Guide notch



Paper guide's edge (①)

31. Firmly push the paper guide all the way in the direction of the arrow, and then push on the A position to lock it.





32. Tilt the belt unit and align the arrow labels (red) on the belt unit and printer to position it, and then open the belt unit handles (blue) on the left and right.



Caution: Be careful to not pinch your hands or fingers between the handle and the machine while installing the belt unit.

33. Turn the two belt unit locking keys clockwise to lock it.



34. Put the print cartridge set back into the printer.



Caution: There is a risk of pinching your fingers or hands when repositioning the print cartridge set. Hold the handle parts of the basket for this operation.

35. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

36. Lower the F0 roller release lever.



37. Lower the cutter unit lock levers at both ends of the cutter unit.



38. Close the unwinder cover.



Caution: There is a risk of pinching your fingers or hands while closing the unwinder cover. Press on the top of the unwinder cover to close it.

Frequent Paper Jams

Check the following when paper jam occurs very frequently.

- Are the paper feeding components dirty? See "Cleaning the Inside of the Printer" on page 379.
- Is the roll paper guide set correctly?
- Are you using paper that is compatible with the printer?
- Are there any fragments of paper remaining inside the printer?
- Is there glue on it?
- Are the sensor positions abnormal? See "Calibrating the Sensor" on page 104.

Messages about Paper

When paper type/size set in the unwinder differs from the printer driver specification, messages, such as "Change paper", will appear, and the **ATTENTION** lamp will blink.

Messages related to paper and error codes, cause of errors and their resolutions, and status of the **ATTENTION** lamp is described below.

Besides, when "Please see HELP for details" is shown in the message, pressing the **HELP** button in the control panel will show the solution procedure, and you can easily solve the process according to the guidance. See "Operating the Help Screen" on page 271.

Category	Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Change paper	Change paper in Unwinder Press UNLOAD or OK Button Please see HELP for details	461	Blinking	The paper settings for the unwinder are different from the print driver specifications. To cancel printing, press the CANCEL button. If multiple errors occur, you may not be able to cancel printing. Press the HELP button, and solve according to the guidance shown on the Help screen.
Empty	Install paper in Unwinder Please see HELP for details	491	Blinking	Paper has run out. Load paper that is the size displayed. To cancel printing, press the CANCEL button. If multiple errors occur, you may not be able to cancel printing. Press the HELP button, and solve according to the guidance shown on the Help screen.
	Open Unwinder Cover Roll Paper End Please see HELP for details	7311	Blinking	Paper has run out. Open the unwinder cover, and remove the cut paper end. Press the HELP button, and solve according to the guidance shown on the Help screen.

Messages about Replacing Wear Items

When the scheduled replacement of wear items approaches, or when the replacement becomes necessary, messages, such as "ABC Near End of Life" and "Install New ABC / ABC Life", will appear, and the **ATTENTION** lamp will start blinking.

Messages related to replacement of wear items and error codes, cause of errors and their resolutions, and status of the **ATTENTION** lamp are described below.

Besides, when "Please see HELP for details" is shown in the message, pressing the **HELP** button in the control panel will show the solution procedure, and you can easily solve the process according to the guidance. See "Operating the Help Screen" on page 271.

Meanings of the symbols used in the error messages are as follows.

- [COLOR]: Either yellow, magenta, cyan, black, or white* appears.
 - *: White appears only for the QL-300s

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Category	Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Print cartridges	Install New [COLOR] Print Cartridge Print Cartridge Life Please see HELP for details	4100, 4101, 4102, 4103, 4104, 4140, 4141, 4142, 4143, 4144, 5600, 5601, 5602, 5603, 5604, 6800, 6801, 6802, 6803, 6804	Blinking	The lifespan of the print cartridge has been reached. Press the HELP button, and solve according to the guidance shown on the Help screen. See "Replacing Print Cartridges" on page 334.
Belt Unit	Install New Belt Unit Belt Unit Life Please see HELP for details	355	Blinking	The lifespan of the belt unit and 2nd transfer roller has been reached. Press the HELP button, and solve according to the guidance shown on the Help screen. See "Replacing the Belt Unit and 2nd Transfer Roller" on page 338.
Fuser and exit unit	Install New Fuser and Exit Unit Fuser and Exit Unit Life Please see HELP for details	354	Blinking	The lifespan of the fuser and exit unit has been reached. Press the HELP button, and solve according to the guidance shown on the Help screen. See "Replacing the Fuser and Exit Unit" on page 359.

Category	Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Waste Toner Box	Install New Waste Toner Box Waste Toner Full Please see HELP for details	357	Blinking	Waste toner is full. If you re-set and use a waste toner box that is already used, there is a risk of the waste toner overflowing, so please replace it with a new waste toner box. Press the HELP button, and solve according to the guidance shown on the Help screen. See "Replacing Waste Toner Boxes" on page 348.

Messages about Other Issues

Other messages and error codes, cause of errors and their resolutions, and status of the **ATTENTION** lamp are described below.

Besides, when "Please see HELP for details" is shown in the message, pressing the **HELP** button in the control panel will show the solution procedure, and you can easily solve the process according to the guidance. See "Operating the Help Screen" on page 271.

- Meanings of the symbols used in the error messages are as follows.
 - [COLOR]: Either yellow, magenta, cyan, black, or white* appears.

*: White appears only for the QL-300s

- [MENUCOLOR] : Y,M,C,K (QL-300) / Y,M,C,K,W (QL-300s)
- [COVER]: Either top cover or unwinder cover is displayed.
- [ERRCODE]/ [CODE]: Detailed numbers of the error are displayed.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Close Cover [COVER]	310, 589	Blinking	The cover shown in the message is open. Close the cover.
Power Off/On [ERRCODE]:Error	-	Blinking	A fatal error has occurred. Restart the printer.
Service Call [ERRCODE]:Error	-		If 188 appears in [ERRCODE], check the condition of the unwinder's installation.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Print Cartridge Not Installed [COLOR] Please see HELP for details	6940, 6941, 6942, 6943, 6944	Blinking	The print cartridge is not installed properly. Press the HELP button, and solve according to the guidance shown on the Help screen.
Check Print Cartridge [COLOR] Please see HELP for details	3400, 3401, 3402, 3403, 3404	Blinking	Print cartridge has not been set correctly. Install the print cartridge correctly.
Invalid Print Cartridge Order Set to [MENUCOLOR]	7382	Blinking	The print cartridge is not installed in the correct position. Reset in the order that is displayed in the display screen.
Unnecessary Print Cartridge Error The job was cancelled. Check the position of the print cartridge lift up lever. To turn off the display, press the OK button Please see HELP for details	7390, 7391, 7392, 7393, 7394, 7395, 7396	Blinking	The Lift Up Lever of the print cartridge is not in the correct position. Printing was stopped and the print data was deleted. Press the HELP button, and solve according to the guidance shown on the Help screen.
The job was canceled due to a spot color order mismatch To turn off the display, press the OK button Please see HELP for details	7385	Blinking	Printing was stopped and the data was deleted because the spot color settings were different from those specified in the printer driver. Press the OK button to delete the display on the display screen. Press the HELP button, and solve according to the guidance shown on the Help screen.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
The job was canceled due to a paper width mismatch To turn off the display, press the OK button Please see HELP for details	7386	Blinking	Printing was stopped and the data was deleted because the paper width settings were different from those specified in the printer driver. Press the OK button to delete the display on the display screen. Press the HELP button, and solve according to the guidance shown on the Help screen.
Press the OK Button for Restoration Memory Overflow	420	Blinking	Cannot print. Printing data has exceeded the memory capacity of the printer. Select a lower Quality of the printer driver and print once again. Press the OK button to delete the display on the display screen.
Resume Print from Page xxx/xxx Press the OK Button Please see HELP for details	502	Blinking	Printing can be resumed. Press the OK button to print the rest of the pages. To cancel printing, press the CANCEL button.
Non Genuine Print Cartridge[COLOR] Please see HELP for details	6840, 6841, 6842, 6843, 6844	Blinking	Print cartridge is not intended for use with this printer model. Use a print cartridge intended for use in this model.
Incompatible Print Cartridge [COLOR] Please see HELP for details	6900, 6901, 6902, 6903, 6904, 7000, 7001, 7002, 7003, 7004, 7040, 7041, 7042, 7043, 7044, 6840, 6841, 6842, 6843, 6844, 7100, 7101, 7102, 7103, 7104, 7200, 7201, 7202, 7203, 7204	Blinking	Print cartridge is not intended for use with this printer model. Use a print cartridge intended for use in this model.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Non Genuine Fuser and Exit Unit Please see HELP for details	6981	Blinking	Fuser and exit unit is not intended for use with this printer model. Use a fuser and exit unit intended for use in this model.
Incompatible Fuser and Exit Unit Please see HELP for details	6982, 6983, 6984, 6985, 6986, 6987	Blinking	Fuser and exit unit is not intended for use with this printer model. Use a fuser and exit unit intended for use in this model.
Non Genuine Belt Unit Please see HELP for details	6881	Blinking	Belt unit is not intended for use with this printer model. Use a belt unit intended for use in this printer model.
Incompatible Belt Unit Please see HELP for details	6882, 6883, 6884, 6885, 6886	Blinking	Belt unit is not intended for use with this printer model. Use a belt unit intended for use in this printer model.
Receiving Data Timeout Press the OK Button for Restoration Please see HELP for details	519	Blinking	A data receipt timeout occurred. Increase the length of timeout print setting.
Check Data Message Data Write Error [CODE]	-	-	Failed to write the message data to be updated. Check data.
Fuser and Exit Unit Not Installed Please see HELP for details	699	Blinking	The fuser and exit unit is not installed properly. Press the HELP button, and solve according to the guidance shown on the Help screen.
Check Fuser and Exit Unit Please see HELP for details	348, 320	Blinking	The fuser and exit unit is not installed correctly. Install the fuser and exit unit correctly.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Install Fuser and Exit Unit Please see HELP for details	333	Blinking	The fuser and exit unit is disconnected. Press the HELP button, and solve according to the guidance shown on the Help screen.
A spot color printing error has occurred. Data will be erased. Check the paper and paper settings, and try to print again. To turn off the display, press the OK button. Please see HELP for details	459	Blinking	Because of a print request for paper unavailable to spot color printing, the printing has been stopped, and the data was deleted. Check the paper and paper settings, and print again. Press the OK button to delete the display on the display screen.
The data will be deleted due to a spot color order mismatch error. Check the print cartridge position and spot color settings, and try to print again. To turn off the display, press the OK button Please see HELP for details	7380	Blinking	The position of the white print cartridge is different from that specified in the printer driver. Printing has been stopped, and the data was deleted. Check the order of the print cartridge and the Spot Color setting, then print once again. Press the OK button to delete the display on the display screen.
Check Waste Toner Box Please see HELP for details	331	Blinking	The waste toner box is not set correctly. Install the waste toner box correctly.
Firmware Update Error Please retry If network doesn't work, please try firmware update over USB	302	-	Firmware update failed. Follow the instructions in the message.
Feeder Unit Not Installed Shut down and Install Feeder Unit	7305	Blinking	The unwinder is not installed. Turn off the power, and then install the unwinder.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Belt Unit Not Installed Please see HELP for details	689	Blinking	The belt unit is not installed properly. Press the HELP button, and solve according to the guidance shown on the Help screen.
Check Belt Unit Please see HELP for details	330	Blinking	The belt unit is not installed correctly. Install the belt unit correctly.
Unnecessary Print Cartridge Error Check the position of print cartridge lift up lever Please see HELP for details	7398, 7399	Blinking	The lift up lever of the print cartridge is not in the correct position. Press the HELP button, and solve according to the guidance shown on the Help screen.
Install Paper Guide Re-set the Paper Guide Please see HELP for details	7384	Blinking	The paper guide is not set correctly. Press the HELP button, and solve according to the guidance shown on the Help screen.
Open Cover Paper was pulled out	7312	Blinking	Paper was forcefully extracted while being fed. Open the cover and if there are scraps of paper, remove them, and then close the cover.
Check Installed Paper Edge Paper Edge Long Error Press the OK Button Please see HELP for details	7308	Blinking	The mark on the leading edge of the paper cannot be detected correctly. Replace the paper, and then press the OK button. Press the HELP button, and solve according to the guidance shown on the Help screen.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Paper Width Error Press the OK Button Please see HELP for details	7383	Blinking	The paper currently being used is different from the paper settings in the printer driver. Replace the paper, and then press the OK button. Press the HELP button, and solve according to the guidance shown on the Help screen.
Check Installed Paper Paper Edge Error Press the OK Button Please see HELP for details	7307	Blinking	The mark on the leading edge of the paper cannot be detected correctly. Replace the paper, and then press the OK button. Press the HELP button, and solve according to the guidance shown on the Help screen. The feed roller (F0) is worn and requires replacement. When this roller is in good condition and the roller is locked, media cannot be pulled out of the printer by hand.
Paper Detection Error [SENSOR_ERROR] Press the OK Button [SENSOR_ERROR]: Detailed information of the error will be displayed.	7381	Blinking	The paper sensor cannot correctly detect paper. Paper setting is incorrect or the sensors are not set/adjusted. Or, the sensor is dirty. There is paper left in the printer; remove it. The feed roller (F0) is worn and requires replacement. When this roller is in good condition and the roller is locked, media cannot be pulled out of the printer by hand.
Wait a Moment Rebooting %CODE% It may take some time to complete this process.	-	Lit	The controller unit is rebooting.

Message displayed on the display screen	Error code	ATTENTION lamp	Causes and Troubleshooting
Shutting down Please wait. Printer will turn off automatically It may take some time to complete this process.	-	Off	The printer is shutting down.

Printing Problems

This section describes the possible issues that may occur while operating the printer, and their solutions.

Note: If the problem is not solved using the following methods, contact Technical Support.

Note: For problems arising from the applications, contact the application development company.

Unable to Print

Basic Reasons

Cause	Solution Procedure
Power supply of the printer is switched off.	Switch on the power supply. See "Turning on the Power" on page 34.
Power supply was switched off due to the auto power off function.	Switch on the power supply. When you do not want to use the auto power off function, disable it with Admin Setup > Power Setup > Auto Power Off in the control panel.
LAN Cable/USB Cable is disconnected.	Check that cables are correctly connected to the printer and the computer. See "Connecting Cables" on page 40.
Cables are defective.	Replace with new cables.
Printer is offline.	Press the ON LINE button on the control panel.
Error message has appeared on the display screen of the control panel.	Refer to the following information or press the HELP button on the control panel.
	 "Messages about Paper" on page 298
	 "Messages about Replacing Wear Items" on page 299
	 "Messages about Other Issues" on page 301
Interface settings are disabled.	From Admin Setup > Network Setup on the control panel, enable the interface you are using.

Cause	Solution Procedure
There is a problem with the print function.	From Printer Information > Configuration > Execute on the control panel, check whether you can print the printer information or not.
This printer is not set as default printer.	Set it to default printer.
Output port of printer driver is incorrect.	Select the output port where LAN cable/USB cable is connected.
Printing from other interface is in progress.	Wait until the printing is complete.

Network Connection Problems

Cause	Solution Procedure
Cross cable is used.	Arrange straight cable and hub, and connect correctly. See "Network Connection" on page 43.
Compatibility problem with hub.	Select Admin Setup > Network Setup > Hub Link Setting from the control panel, and change the settings.
There is a problem with hub.	Try inserting the network cable into another port or an empty port on the same hub. If the problem is still not solved, use a different hub.
Network cable is defective.	Reconnect with a new or a different network cable, and check again.
Incorrect IP address.	Check that IP address settings of the printer, and IP address of the printer set in the computer are matching.
	 Check that IP address is not the same as other devices.
	Check that correct address is set in IP address, Subnet mask, and Gateway address.
Duplicate IP address.	Set an IP address for the printer that does not duplicate any other IP address.

USB Connection Problems

Cause	Solution Procedure
Cable does not meet the standards.	Use USB cable of USB 2.0 specifications.
USB hub is used.	Directly connect the printer to the computer.

Cause	Solution Procedure
Printer driver is not installed correctly.	Please re-install the printer driver. See "Driver Installation Process Overview" on page 39.
Printer is offline.	Right click the QL-300 icon in the Devices and Printers folder, and then select See what's printing. Select the Printer menu in the dialog displayed, and uncheck Use Printer Offline.
Switch, buffer, extension cable, and USB hub are used.	Directly connect the printer to the computer.
Another printer driver operated through USB connection is installed.	From the computer, remove other printer drivers.

Printer Troubles

Symptom	Cause Troubleshooting	
Nothing is displayed in the display screen panel even after switching on the power supply.	Power supply cord is disconnected. Switch off the power supply, a firmly insert the power supply See "Connecting a Power Copage 34.	
	Power outage.	Check if electricity is flowing in the power socket.
Does not function.	Power supply cord is not inserted firmly.Firmly insert the power supply cord. See "Connecting a Power Cord page 34.	
	Power supply is not switched on.	Switch on the power supply. See "Turning on the Power" on page 34.
LED lamp of the POWER button is blinking at high speed at about 0.3 second interval.		

Symptom	Cause	Troubleshooting
Printing process does not start.	Error is displayed.	 Check the error code, and follow the instructions displayed on the display screen. See "Messages about Paper" on page 298. See "Messages about Replacing Wear Items" on page 299. See "Messages about Other Issues" on page 301.
	LAN Cable/USB Cable is not connected.	Firmly insert LAN Cable/USB Cable.
	LAN Cable/USB Cable is defective.	Use another LAN Cable/USB Cable.
	LAN Cable/USB Cable does not meet the standards. • Use a cable of USB 2.0 cations. • Use a cable of LAN Cab BASE-T Specifications.	
	There may be a problem with the print function.	From Print Information > Configuration > Execute on the control panel, check whether you can print the printer information or not.
	Interface is disabled.	From Admin Setup > Network Setup on the control panel, enable the interface you are using.
	Printer is not selected.	Set the printer as the "Default Printer".
	Output port of printer driver is incorrect.	Specify the output port where LAN cable/USB cable is to be connected.
	The tension bar is not locked.	Lower the tension bar until it clicks. After that, open and close the unwinder cover.
Print data is not sent.	LAN Cable/USB Cable is damaged.	Connect a new cable.
	Computer had timed out.	Increase the length of timeout.
Abnormal sound.	Device is tilted.	Install on a stable and a flat surface.

Symptom	Cause	Troubleshooting	
Resonant sound.	While temperature inside the device has increased, printing is done on a narrow paper or a thick paper.Device has not broken down the device as it is.		
A sound is heard from the cutter unit when cutting the paper.	Glue of the labels accumulated on the cutter blades inside the cutter unit or paper dust may make the blade rubbed and make a sound.		
Printing does not start immediately.	Device is warming up to return from the power saving mode.	Please wait. When you do not want to use Power Save mode, on the control panel, select Admin Setup > Power Setup > Power Save to disable the mode.	
	Cleaning of print cartridge may be in progress.	Please wait.	
	Temperature adjustment of the fuser unit is under progress.	Please wait.	
	Processing of data from other interface is in progress.	Wait until the printing is complete.	
	All the print data is being processed before printing starts.	Please wait.	
Printing stops while printing.	Adjusting colors or correcting density during continuous printing.	Please wait.	
Not enough memory.	Inadequate memory of the printer due to large printing data. See "Fine Quality Printing" on 186.		
Slow printing.	Printing process is also done at the computer side.	User a computer with fast processing speed.	
	Complicated print data.	Select simple print data.	

Symptom	Cause	Troubleshooting
Failure to calibrate sensor	The sensor is out of position.	Check the position of the sensor. See "Confirming the Printer Sensor Position" on page 109.
	The surface of the sensor cover is dirty.	 Clean the surface of the sensor cover. See "Cleaning the Surfaces of the Unwinder" on page 368. See "Cleaning the Surfaces of the Printer" on page 378.
	Last of the paper was detected while calibrating the sensor.	Replace the paper with a new roll of paper.
	The information for the paper being used is not registered on the printer.	Correctly register, on the printer, the information for the paper being used.

Trouble with Sensor Calibration

Printer Driver Malfunctions

USB Connection Problems

Symptom	Solution Procedure	
Icon of the printer is not created in the Devices and Printers folder.	Printer driver is not installed correctly. See "Driver Installation Process Overview" on page 39.	
Error message such as "Printer driver installation failed" appears.	 Use plug and play. Follow the procedure given below. 1 Check that the power supply to the printer and computer are turned off. 2 Connect the USB cable. 3 Turn on the power supply of the printer. 4 Turn on the power supply of the computer. 5 Open the Devices and Printers screen from Control Panel, and then click Add a printer. 6 Execute the setup according to the on-screen instructions. Specify the following location to directly specify the printer driver. \Drivers\PCLXL 	

Trouble	when	Setting	up	Printing
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Symptom	Solution Procedure
A few seconds of waiting time occurs if you switch from another printer to the QL-300, using the printer settings in an application.	These symptoms occur when there are many types of paper registered in the printer driver. If you want to reduce this waiting time, delete the paper settings that you do not need from the printer driver. See "Registering a Desired Paper Size with the Printer Driver" on page 78.
Printing is being done in specified batches, even though they have not been specified.	For some applications, batch copies may be specified automatically if a number of copies have been specified in the print settings on the application. To solve this, manually turn off the batch settings that were turned on automatically in the application. See "Collating Printed Output (Sorted Printing)" on page 203.
The setting for printing multiple copies does not appear on the control panel of the printer, even though the setting for multiple copies is specified in printer settings in the printer driver or the application.	When you specify to print multiple copies in the printer driver or application, some applications generate print data for all of the copies to be printed. When this type of data is being printed, the printer cannot recognize that you have specified multiple copies to be printed, so the indicator for printing multiple copies does not appear on the control panel. You can use the printer as it is, because all the copies that you specified will be printed.
The final printout is not cut, even though Cut by collation or To specify the number of pages per cut is specified in the Cut Mode settings in the printer driver, although the setting for collate is specified in the printer settings in the printer driver or the application.	When you specify to collate printouts in the printer driver or application, some applications reorder the pages in collated order, and then generate print data for all of the copies to be printed. When this type of data is being printed, the printer cannot recognize that the printout is being collated, so the indicator for collated printing does not appear on the control panel. In addition, the final printout is not cut, even though Cut by collation or To specify the number of pages per cut is specified in the Cut Mode settings in the printer driver. Even if the application is suitable, when you want to cut collated printouts, specify the pages in To specify the number of pages per cut so they match the pages being collated. Furthermore, if you can only specify a number of pages that is a multiple of that in To specify the number of pages per cut because the paper is short, you need to edit the print data, such as by adding blank pages, so it has a number of pages that can coincide with the number specified in To specify the number of pages per cut .

Problems Concerning Restrictions of Windows OS

Items	Symptom	Causes and Troubleshooting
Printer driver	The User Account Control dialog appears.	When starting installer or utility, the User Account Control dialog may appear. Click Yes or Go, and run installer or utility as administrator. Clicking No or Cancel will not start installer or utility.
	Images are being printed in an incorrect layout when doing "Print Test Page".	Occurred because Windows OS is creating print information that is larger than the paper settings that are set in the printer driver. Operation is not abnormal.

Print Quality Is Poor

Symptom	Cause	Troubleshooting
White stripe in perpendicular direction.	LED head is unclean.	Wipe LED head with a soft tissue paper. See "Cleaning LED Heads" on page 397.
Paper feed direction	Low toner.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	Deposit of foreign substances.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	Window film on print cartridge is dirty.	Wipe window film with a soft tissue paper. See "Cleaning LED Heads" on page 397.
	Print cartridge has not been set correctly.	Please set the print cartridge correctly. See "Cleaning LED Heads" on page 397.

Symptom	Cause	Troubleshooting
Printing is blurred in perpendicular direction.	LED head is unclean.	Wipe LED head with a soft tissue paper. See "Cleaning LED Heads" on page 397.
	Low toner.	On the control panel, set +1 to +3 in SMR Setting . If the problem is not rectified after that, replace the print cartridge. There is a risk of the printouts being dirty if you continue using the +1 to +3 setting in SMR Setting. See "Replacing Print Cartridges" on page 334.
	The toner is clumping.	Shake the print cartridge up and down, and left and right. See "Replacing Print Cartridges" on page 334.
	Paper not suitable.	Check the roll paper specifications, and then use paper that is described on the roll paper specifications.
	The temperature and humidity controls are not suitable.	On the control panel, set +1 to +3 in SMR Setting . There is a risk of the printouts being dirty if you continue using the +1 to +3 setting in SMR Setting .

Symptom	Cause	Troubleshooting
Printing is light.	Print cartridge has not been set correctly.	Re-install the print cartridge. See "Replacing Print Cartridges" on page 334.
	Low toner.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	Paper is moist.	Use paper that has been stored at appropriate temperature and humidity.
	Paper not suitable.	Check the roll paper specifications, and then use paper that is described on the roll paper specifications.
	Paper not suitable. Type and thickness setting of paper is inappropriate.	Correct Media Weight in the control panel to the appropriate value. Or, change Media Weight to a thicker value than the present value.
	Recycled paper is used.	Correct Media Weight in the control panel to the appropriate value. Or, change Media Weight to a thicker value than the present value.

Symptom	Cause	Troubleshooting
Printing is blurred in some parts. White dots appear when printing solid colors.	The paper is too damp or too dry.	Use paper that has been stored at appropriate temperature and humidity.
	Transfer Setting is not properly set.	If white dots appear in cyan transfer, lower the setting value by selecting Print Adjust > Transfer Setting > Cyan Transfer Setting on the control panel. If white dots appear in other colors' transfer, change the transfer setting value of the corresponding color.
	Media Transfer Setting Black or Media Transfer Setting Color is not properly set.	On the control panel, change the value in Print Adjust > Media Transfer Setting Black or Media Transfer Setting Color .
	There are scratches, dents or foreign matter (including glue from labels) on the belt unit.	Replace the belt unit. Implement protection against foreign matter and do daily maintenance (cleaning). See "Replacing the Belt Unit and 2nd Transfer Roller" on page 338.
Stripes in perpendicular direction.	There are dents on the print cartridge.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	Low toner.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	The transfer path or the fuser and exit unit are dirty because bits of paper or glue are on them.	Clean the transfer path and the fuser and exit unit. See "Cleaning the Inside of the Printer" on page 379.

Symptom	Cause	Troubleshooting
The front or rear edge of the paper is dirty. TA Paper feed direction	The 2nd transfer roller is dirty.	Run Print Adjust > Transfer Roller Cleaning on the control panel. If it is not rectified even after that, replace the 2nd transfer roller. Replacement of the 2nd transfer roller is done together with the belt unit, which is a wear item. See "Replacing the Belt Unit and 2nd Transfer Roller" on page 338.
	The area around the 2nd transfer roller or the paper transfer path is dirty.	Wipe the area around the roller on the 2nd transfer roller and the paper transfer path with a soft tissue paper. See "Cleaning the Inside of the Printer" on page 379.
Image disturbance occurs to the printed portion.	The speed of the fuser unit is incorrect.	Feed 400 mm of media or longer one time.

Symptom	Cause	Troubleshooting
Stripes or dots appear periodically in horizontal direction.	In the case of a cycle length of about 94 mm, the print cartridge may be scratched or dirty.	Wipe it lightly with a soft tissue paper. If there are dents, replace the print cartridge. See "Replacing Print Cartridges" on page 334.
Paper feed direction		Set Smooth in Screen for the print quality settings in the printer driver.
	In the case of cycle length of about 31 mm, there is dirt inside the print cartridge.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	In the case of cycle length of about 140 mm, there are scratches on the fuser and exit unit.	Replace the fuser and exit unit. See "Replacing the Fuser and Exit Unit" on page 359.
	Print cartridge is exposed to light.	Return the print cartridge inside the printer, and do not use the printer for a few hours. If it does not rectify even after that, replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	In the case of cycle length of about 63 mm, the feed roller is dirty.	Clean the feed roller. See "Cleaning the Inside of the Printer" on page 379.
	In the case of cycle length of about 75 mm, 2nd transfer roller may be dirty.	Run Print Adjust > Transfer Roller Cleaning on the control panel. If it is not rectified even after that, replace the 2nd transfer roller. Replacement of the 2nd transfer roller is done together with the belt unit, which is a wear item. See "Replacing the Belt Unit and 2nd Transfer Roller" on page 338.
	Dirt has deposited on the paper transfer path.	Print a few pages as a test Or, clean the transfer path. See "Cleaning the Inside of the Printer" on page 379.

Symptom	Cause	Troubleshooting
Portion of white background is lightly stained.	Paper has static electricity.	Use paper that has been stored at appropriate temperature and humidity.
A	Thick paper is used.	Use thinner paper.
	Low toner.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
Border of characters is blurred.	LED head is unclean.	Wipe LED head with a soft tissue paper. See "Cleaning LED Heads" on page 397.
	Paper not suitable.	Check the roll paper specifications, and then use paper that is described on the roll paper specifications.
	Paper is moist.	Replace with new paper.
Rubbing paper removes the toner.	Type and thickness setting of paper is inappropriate.	Correct Media Weight in the control panel to the appropriate value. Or, change Media Weight to a thicker value than the present value.
	Recycled paper is used.	Correct Media Weight in the control panel to the appropriate value. Or, change Media Weight to a thicker value than the present value.
Specks appear on glossy papers.	Type and thickness setting of paper is inappropriate.	Correct Media Weight in the control panel to the appropriate value. Or, change Media Weight to a thicker value than the present value.

Symptom	Cause	Troubleshooting
Bold lines appear in horizontal direction.	Type and thickness setting of paper is inappropriate.	If a line is printed from the second page with black & white print, set the Media Weight to an appropriate value from the control panel. Or, change Media Weight to a thicker value than the present value.
	Occurs when the following edge of the paper leaves the F4 roller, if it is 77 mm from the following end of the paper.	Bold lines or thin lines may occur on media similar to cast coated paper (stiff media or media on yellow separators). Use recommended paper.
	Occurs due to the different levels of the gap between labels, if it occurs periodically at labels.	Bold lines or thin lines may occur on media similar to cast coated paper (stiff media or media on yellow separators). Use recommended paper.
	Occurs when paper has been loaded for a long time, at the F0 roller, if it is about 40 mm from the leading edge of the paper. Glossy media is more sensitive to this artifact. This artifact can occur in less than one hour.	When media is pinched in F0 roller, streaks appear, stiff media becomes curled, and images may be affected. After printing, remove the paper. Also, always remove the paper if you will not use the equipment for a long time.
Lateral-stripe white dots appear at the solid printing portion.	Transfer Setting is not properly set.	If white dots appear in cyan transfer, lower the setting value by selecting Print Adjust > Transfer Setting > Cyan Transfer Setting on the control panel. If white dots appear in other colors' transfer, lower the transfer setting value of the corresponding color.
	Media Transfer Setting Black or Media Transfer Setting Color is not properly set.	On the control panel, decrease the value set in Print Adjust > Media Transfer Setting Black or Media Transfer Setting Color .
Border of the solid printing portion is lightly stained.	Paper is too dry.	Use paper that has been stored at appropriate temperature and humidity.
	Media Transfer Setting Black or Media Transfer Setting Color is not properly set.	On the control panel, increase the value set in Print Adjust > Media Transfer Setting Black or Media Transfer Setting Color .

Symptom	Cause	Troubleshooting
The back of the paper is dirty.	The 2nd transfer roller is dirty.	Confirm that the size of the image and the length of the paper match. Clean the 2nd transfer roller. See "Cleaning the Inside of the Printer" on page 379.
Does not print with color shades as you thought.	Low toner.	Replace the print cartridge. See "Replacing Print Cartridges" on page 334.
	Setting of Black Finish is not matching with the application.	In the Black Finish of printer driver, select True Black (K) or Composite Black (CMYK) .
	Change color matching options.	Change to color matching option of the printer driver.
	No color balance.	Select Calibration on the control panel, and then run Adjust Density .
	Misalignment of color.	Open the top cover at once, and the close it again. Select Calibration on the control panel, and then run Adjust Registration .
Black spots or white spots appear.	Paper not suitable.	Check the roll paper specifications, and then use paper that is described on the roll paper specifications.
	In the case of a cycle length of about 94 mm, the print cartridge may be scratched or dirty.	Gently wipe the dirt stuck to the brown tube in the print cartridge with a soft tissue paper. If there are dents, replace the print cartridge. See "Replacing Print Cartridges" on page 334.
Stains are printed.	Paper is moist.	Replace with a new paper.
A	Paper not suitable.	Check the roll paper specifications, and then use paper that is described on the roll paper specifications.
	The surface of the roller in the feed path is dirty.	If foreign matter is found on the surface of the roller in the feed path, remove the dirt with a soft cloth or tissue paper.

Symptom	Cause	Troubleshooting
The entire paper is printed black.	The device might have broken down.	Contact Technical Support.
Nothing is printed.	The device might have broken down.	Contact Technical Support.
White spaces occur.	Paper is moist.	Replace with a new paper.
A	Paper not suitable.	Check the roll paper specifications, and then use paper that is described on the roll paper specifications.
	Scraps of paper from the labels are stuck to the belt unit.	Replace the belt unit. The belt unit is replaced together with the 2nd transfer roller, which is a wear item. See "Replacing the Belt Unit and 2nd Transfer Roller" on page 338. Implement protection against foreign matter and do daily maintenance (cleaning). Or, check the cutting position; if it has shifted, readjust the cutting position.
	If it is near the leading edge of the roll paper, it may be the remains of the tape that has peeled off the roll paper.	Cut off the end part of the paper that has any tape left on it, and do not use that paper.
Afterimages are appearing.	The print quality setting is not appropriate.	Set Smooth in Screen for the print quality settings in the printer driver.
Paper feed direction		
Symptom	Cause	Troubleshooting
--	---	--
Blank pages are being inserted.	An image that is less than 4 inches long is being printed.	 When setting User-defined paper in the printer driver, if you set less than 4 inches for the following, then a blank piece of paper will be inserted after cut pages when you print. For continuous paper, Paper length
		 For die-cut labels, die-cut labels with black marks and continuous labels, Label length
		• For continuous paper with black marks and continuous labels with black marks, Black mark interval
		This occurs because an image that is shorter than the length of the paper that can be fed is printed; so it is a limit.
The position that printing starts on the leading edge is misaligned.	The belt has stretched	Adjust the registration and execute paper interval detection before you start printing, and install the printer in a room that has humidity that is as stable as possible.
	The gap interval between labels is different between each label.	Rolls of labels that have different intervals between labels cannot be used. Use rolls of labels that have regular intervals.
	There is a join in the roll paper.	If there is a join in the roll paper, the position that printing starts on the leading edge may be misaligned.We cannot recommend media that has joins.
	The paper size specified in the printer driver is different from the paper size that is loaded.	Specify the correct paper size in the printer driver.
	The black mark sensor position or gap sensor position is skewed.	For black marks, adjust the position of the sensor to the center of the black mark. For gaps, adjust the position of the sensor to the center of the label.

Symptom	Cause	Troubleshooting
The position that printing starts on the leading edge is misaligned.	(The first page is misaligned) The paper and media form that you are using have been switched.	Do fine adjustments to the print position. Set Cut Mode-Specified Interval-Cut Interval to "1". Then print 5 pages of your content on the media you are actually using and use them to measure the differences in the position you want to print and the actual printed positions, and then calculate the average of these 5 measurements. Use this difference to finely adjust the print position using the print position correction (Y position).
	(The second and following pages are misaligned) Immediately after doing paper interval detection, replacing the roll of paper, or changing the print pattern, the print position adjustment (auto) was not done well enough.	Print 20 continuous pages of the actual print pattern you are using (set Cut Mode-Specified Interval-Cut Interval to "20") so you can compensate for the position that printing starts.
Printing extends off the trailing edge of the paper.	The paper size specified in the printer driver is different from the paper size that is loaded.	Specify the correct paper size in the printer driver.
	The compensation value specified for the print position correction (Y position) is too large.	Specify a correction value that is within a range that the printing does not extend off the trailing edge of the paper. If the image extends off the trailing edge of the paper, clean the 2nd transfer roller.
Pages are cut on a different page than the specified page.	Last of the paper was detected.	Replace the paper with a new roll of paper. When reprinting, paper is output from the page where the error occurred up to the cut page. So, if you want to justify the number of pages up to the cut, temporarily cancel printing and send print data starting from the page you want to reprint.

Symptom	Cause	Troubleshooting
There is an abnormality in the print results on the Test Page .	You are printing image data that is an inappropriate size.	The layout of the image skews in the printed results when you do the Print Test Page from the printer driver, depending on the type of OS that you are using. This is not a problem with the printer driver or the equipment. It is caused by the OS transmitting the images on A4 or letter size paper, which are paper sizes that the device does not support.

Paper Feed Is Poor

Symptom	Cause	Troubleshooting
Paper jam occurs frequently.	Device is tilted.	Install on a stable and a flat surface.
	The paper feed path is dirty.	Clean the paper feed path. See "Cleaning the Inside of the Printer" on page 379.
	Position of the roll paper guide is not aligned.	Align the roll paper guide to the position of the paper size that is set.
	Papers are not set correctly.	Remove the roll paper and reset.
	The position of the roll paper is misaligned.	Remove the roll paper and reset it, and then turn the roll paper position adjustment dial to adjust the position.
	The leading edge of the paper is curled. Or, the paper that is loaded does not have cuts in the gaps between the labels.	Correctly cut the leading edge of the paper and reset it.

Symptom	Cause	Troubleshooting
Paper jam occurs frequently.	Printer driver sensor settings are not specified correctly.	Specify Sensor settings in Paper settings of the printer driver so it is the same as where the results of the sensor calibration are registered. Furthermore, if several of the same model printer are connected to a single computer and if the same paper settings are specified on the printer driver for the various printers, then in Sensor settings the same registration number should be specified for all the printers. Register the sensor adjustment results from each printer so they match the Sensor settings numbers that are in the paper settings on the printer driver as the above countermeasures.
	The width of the paper being used and the width of the paper guide do not match. Or, the paper width set in the printer driver and the width of the paper being used do not match.	Use paper that is as wide as the paper width that is set in the printer driver. Align the width of the paper guide to the width of the paper you are using.
	An appropriate paper is not set.	Match the settings of the paper on which you want to print with the settings in the printer driver. Do a sensor calibration for the paper on which you want to print.
	There are traces of sealing tape on the roll paper that is being used.	Do not use the part of the roll paper on which there are traces of sealing tape. Feeding may not be normal because of the glue stuck to the paper.

Symptom	Cause	Troubleshooting
Paper jam occurs frequently.	The positions of the machine and the unwinder sensors do not match.	Align the position of the sensor with the paper.
	Labels are missing from the roll of paper that is being used.	Load a suitable roll of paper. If the cause described on the left is correct, there may be toner on the fuser unit, so you should clean it.
	Only when paper feed is started by pressing the FEED button Stiff continuous labels are being used (or, die-cut labels that are longer than 600 mm).	Fold the media about 200 mm from the leading edge of the media (liner) to make a crease that forms a valley in the printed face, and then feed the paper.
	The roll of paper is old so its color or quality has changed.There are large differences in the reflectiveness of the black marks or the transmittance of the liner.	Calibrate the sensor.
Paper is not fed.	The paper settings for the printer are different from the paper settings in the printer driver.	Check the message on the display screen, and if there is no problem, press the OK button on the control panel.
	Glue has smeared on the liner.	Do not use a liner on which glue is smeared. It will not feed normally. In the worst case, it could damage the equipment.
Device is not restored even after removing the jammed paper.		Open the top cover at once, and the close it again.
Paper gets curled. Creases appear on the paper.	Paper contains moisture or static electricity.	Use paper that has been stored at appropriate temperature and humidity.
	Thin paper is used.	Correct Media Weight in the control panel to the appropriate value. Or, change Media Weight to a thicker value than the present value.
Paper winds around the roller of the fuser and exit unit.	Type and thickness setting of paper is inappropriate.	Correct Media Weight in the control panel to the appropriate value. Or, change Media Weight to a thicker value than the present value.
	Thin paper is used.	Use thicker paper.

Symptom	Cause	Troubleshooting
The space between labels is not cut; the labels are cut.	The position of the cut is misaligned.	Readjust the cutting position.
	The leading edge of the label and the black mark positions are not aligned.	Labels cannot be used if the leading edge of the label and the black mark positions do not align. Use labels whose leading edges align with the black mark.
	The gap interval between labels is different between each label.	Rolls of labels that have different intervals between labels cannot be used. Use rolls of labels that have regular intervals.
	The gap interval between labels is not from 3 to 10 mm.	A gap between labels from 3 to 10 mm can be used. Do not use any others.
	The paper size specified in the printer driver is different from the paper size that is loaded.	Specify the correct paper size in the printer driver.
Paper has stopped feeding.	Last of the paper was detected during warm up while paper was feeding.	Replace the paper with a new roll of paper.
Paper is not fed, even when the FEED button is pressed.	Last of the paper was detected while feeding paper.	Replace the paper with a new roll of paper.
Paper is not unloaded, even when the UNLOAD button is pressed.	Last of the paper was detected while unloading paper.	Replace the paper with a new roll of paper.
The rear edge of the paper is skewed.	Paper is not set on the roll shaft.	Replace the paper with a new roll of paper.



Checking Service Life and Remaining Amounts of Wear Items

You can check the service life and remaining quantities of the print cartridge, belt unit, fuser and exit unit, and waste toner box.

1. Press the scroll button ▼ several times to select **Configuration**, and then press the **OK** button.



2. Select **Supplies Life**, and press the **OK** button.

Configuration	1/1 Page
1 Feeder Count	
2 Supplies Life	
3 Network	
4 System	

◯ Use Online button to return to standby screen.

3. Select the wear items to check (print cartridge, belt unit, fuser and exit unit, or waste toner box).

Supplies Life	1/2 Page
1 Cyan Print Cartridge	
2 Magenta Print Cartridge	
3 Yellow Print Cartridge	
4 Black Print Cartridge	
5 White Print Cartridge	
6 Waste Toner Box	
7 8 ↑ / ↓ Page	

4. Press the **OK** button.

Supplies Life	1/2 Page
1 Cyan Print Cartridge	
2 Magenta Print Cartridge	
3 Yellow Print Cartridge	
4 Black Print Cartridge	
5 White Print Cartridge	
6 Waste Toner Box	
7 8 ↑ / ↓ Page	

If you want to continue to check other items, press the **BACK** button to return to the previous step.

5. Press the **ON LINE** button to return to the standby screen.



Replacing Wear Items

This section describes the service life and replacement method of wear items.

About the Service Life of Wear Items

Guidelines for replacement of wear items are as follows. Service life estimates are for reference. The actual service life will vary based on label design, usage status, powering on/off, and adjustment operations.

Wear item	Approximate service life
Print Cartridge (CMYK)	52,200 linear inches at 20% toner density. Print quality will decline one year after opening the package. Monochrome printing (black and white) is possible even if cyan, magenta, or yellow cartridge life has been reached. See "Monochrome (Black and White) Printing" on page 237.

Wear item	Approximate service life
Print Cartridge (W) The white print cartridge is for the QL-300s only.	26,100 linear inches at 20% toner density. Print quality will decline one year after opening the package. CMYK printing is possible even if the white cartridge life has been reached. See "Printing Using the Specified Print Cartridge Only (Lift Up)" on page 184.
Belt Unit	2,610,000 linear inches at 5% toner density.
2nd Transfer Roller	2,610,000 linear inches at 5% toner density. The 2nd transfer roller is included in the belt unit, which is a wear item.
Fuser and Exit Unit	870,000 linear inches.
Waste Toner Box	435,000 linear inches at 5% toner density.
Paper Guide/Feed Unit	5,800,000 linear inches.
Cutter Unit (Unwinder)	1,000,000 cuts.
F0 Roller Unit (Unwinder)	5,800,000 linear inches.

Toner density is the proportion of area having toner on printable area of 1 page.

When the Replacement Period Is Approaching

When the scheduled replacement of wear items approaches, the following message will appear and the **ATTENTION** lamp will blink.

Replace wear items when "Install New..." appears in the message.

Pressing the **HELP** button on the control panel will display the replacement procedure. You can easily replace the wear items according to the guidance. See "Operating the Help Screen" on page 271.

	Message displayed on the display screen		
ltem	When the replacement period approaches	When it is time for replacement	
Print cartridges See "Replacing Print Cartridges" on page 334.	[COLOR] ^{*1} Print Cartridge Near End of Life	Install New [COLOR] ^{*1} Print Cartridge Print Cartridge Life Please see HELP for details	
Belt Unit See "Replacing the Belt Unit and 2nd Transfer Roller" on page 338.	Belt Unit Near Life	Install New Belt Unit Belt Unit Life Please see HELP for details	

	Message displayed on the display screen		
Item	When the replacement period approaches	When it is time for replacement	
Fuser and exit unit See "Replacing the Fuser and Exit Unit" on page 359.	Fuser Unit Near End of Life	Install New Fuser and Exit Unit Fuser and Exit Unit Life Please see HELP for details	
Waste Toner Box See "Replacing Waste Toner Boxes" on page 348.	Waste Toner Near Full	Install New Waste Toner Box Waste Toner Full Please see HELP for details	

*1: [COLOR]: Either yellow, magenta, cyan, black, or white is displayed. (White appears only for the QL-300s.)

Replacing Print Cartridges

Precautions Related to Print Cartridge Replacement

Symbol	Warning
	Do not put toner or print cartridges in fire. The toner may spray out and cause burns.
\bigcirc	Do not store print cartridges in locations exposed to open flame. They could ignite, burn, and cause burn injuries.
\bigcirc	Do not clean spilled toner with a vacuum cleaner. If cleaning spilled toner with a vacuum cleaner, it may catch fire due to the sparks from electric contact. Toner spilled on the floor should be wiped up with a wet cloth.

Symbol	Caution
	Some parts inside the machine are very hot. Do not touch the areas near the "High Temperature Warning" labels. Doing so may cause burns.
0	Keep the print cartridges away from children.
0	If toner is ingested, follow the direction from a doctor if necessary.
0	If toner is inhaled, gargle with plenty of water and move to a location where the air is fresh. Follow the direction from a doctor if necessary.

Symbol	Caution
0	If toner gets on your hands or skin, carefully wash it off with soapy water.
0	If toner gets into your eyes, flush them with large amount of water. Follow the direction from a doctor if necessary.
0	Be careful to not get toner on your clothes or hands when you are clearing paper jams or replacing the print cartridges. If toner gets on your hands or skin, carefully wash it off with soapy water. If it gets on your clothes, rinse it off with cold water. If you wash them with warm water or heat the toner, it will stain the clothes permanently.
	Do not disassemble or forcibly open the print cartridge. It may scatter the toner, which people may inhale or may stain clothes and hands.
0	Store used print cartridges in a bag so that the toner does not scatter around.
0	Toner spilled on the floor should be carefully wiped up with a wet cloth so the toner does not scatter around.
0	Gently wipe the dirt stuck to the brown tube in the print cartridge with a soft tissue paper. Do not use alcohol or other solvents to wipe it. If alcohol or some other solvent is used to wipe it, the irregularities left from wiping it will degrade print quality.

Replacing Print Cartridges

The following example describes how to replace the yellow (Y) print cartridge. Adjust the procedure based on the print cartridge you are replacing.

1. Grasp the top cover open lever and open the top cover.



2. Check the position of the print cartridge to replace, by the text and color of the label.



3. Pull out the print cartridge.



4. Remove the new print cartridge from the packing bag, and then shake it vertically and horizontally.



5. Check the position where a label with the same text and colors has been applied, and firmly and levelly push the print cartridge in as far as it will go.



6. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

If the **Print Cartridge Life** message does not disappear even though you have replaced the print cartridge, the print cartridge may not be securely installed. Install it correctly.

If Error709 appears after you replace a print cartridge, refer to "Messages about Other Issues" on page 301.

7. Please support the recycling of used print cartridges.

If you must dispose of a used print cartridge, put it in a plastic bag and be sure to dispose of it according to the local laws and government regulations.

Use the box and packing bag from the new print cartridge to recycle the used print cartridge.

Replacing the Belt Unit and 2nd Transfer Roller

A new 2nd transfer roller is supplied with the new belt unit in the same package.

Also, a new waste toner box is mounted inside the belt unit.

1. If roll paper has been fed through the printer, press the **UNLOAD** button to cut the roll paper.

The cut paper will be fed to the supply side and the feeding side.



2. Grasp the top cover open lever and open the top cover.



3. Remove the print cartridge set.



4. Place the removed print cartridge set on a flat surface covered with newspaper or something similar, and cover it with paper so it is not exposed to direct light.



5. Turn the two belt locking keys counterclockwise to release the lock.



6. Hold the belt unit handles (blue) on the left and right, and remove the belt unit at an angle.



Caution: Be careful not to spill waste toner while removing the belt unit.

Caution: Be careful to not pinch your hands or fingers between the handle and the machine while removing the belt unit.

Caution: When removing the belt unit, do not tilt it further than is needed to remove it.

7. Place the belt unit with the right side down on a flat surface covered with paper.



Caution: Place the belt unit on a flat surface, as shown in the diagram above. Do not stand it on its side.



Caution: Do not touch the belt surface or damage the belt.



8. Hold the 2nd transfer roller unit (1) knob (blue) and remove it.



9. Remove the 2nd transfer roller from its packaging.



10. Set the new 2nd transfer roller (1) into the printer.



Note: Do not touch the roller part (sponge part) of the 2nd transfer roller. Touching it damages the surface of the roller, which degrades print quality.

Caution: Be careful, the fuser unit is very hot immediately after printing.

11. Remove the new belt unit from its packaging.



Caution: Do not touch the belt surface or damage the belt.



12. Tilt the belt unit and align the arrow labels (red) on the belt unit and printer to position it, and then open the belt unit handles (blue) on the left and right.



Caution: Be careful to not pinch your hands or fingers between the handle and the machine while installing the belt unit.

Note: When the belt unit is replaced, the waste toner box is also replaced at the same time.

13. Turn the two belt unit locking keys clockwise to lock it.



14. Put the print cartridge set back into the printer.



Caution: There is a risk of pinching your fingers or hands when repositioning the print cartridge set. Hold the handle parts of the basket for this operation.

15. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

16. Please support the recycling of used belt units and 2nd transfer rollers.

Caution: You cannot clean the belt unit yourself. To protect the equipment against dirt and foreign matter, do daily maintenance (cleaning) as described in "Cleaning Schedule" on page 367. Also, do not use alcohol or other solvents to wipe the surfaces. If alcohol or

some other solvent is used to wipe it, the irregularities left from wiping it will degrade print quality.

Caution: Do not disassemble the belt unit and the waste toner box, and do not force them open. Doing so may cause toner to spray out, to be inhaled, or to soil your clothing and hands.

If you must dispose of a used belt unit or 2nd transfer roller, put them in a plastic bag and be sure to dispose of them according to the local laws and government regulations.

Use the box and packing bag from the new belt unit and 2nd transfer roller for when the used belt unit and 2nd transfer roller are recycled.

Replacing Waste Toner Boxes

1. Grasp the top cover open lever and open the top cover.



2. Remove the print cartridge set.



3. Place the removed print cartridge set on a flat surface covered with newspaper or something similar, and cover it with paper so it is not exposed to direct light.



4. Turn the two belt locking keys counterclockwise to release the lock.



5. Hold the belt unit handles (blue) on the left and right, and remove the belt unit at an angle.



Caution: Be careful not to spill waste toner while removing the belt unit.

Caution: Be careful to not pinch your hands or fingers between the handle and the machine while removing the belt unit.

Caution: When removing the belt unit, do not tilt it further than is needed to remove it.

6. Place the belt unit with the right side down on a flat surface covered with paper.



Caution: Place the belt unit on a flat surface, as shown in the diagram above. Do not stand it on its side.



Caution: Do not touch the belt surface or damage the belt.



7. Remove the waste toner box from the back of the belt unit.



8. Remove the new waste toner box from its packaging.



9. Insert the new waste toner box into the belt unit, and firmly push it inside.



10. When facing the belt unit, hold the handles (blue) on its left and right sides.



11. Tilt the belt unit and align the arrow labels (red) on the belt unit and printer to position it, and then open the belt unit handles (blue) on the left and right.



Caution: Be careful to not pinch your hands or fingers between the handle and the machine while installing the belt unit.

12. Turn the two belt unit locking keys clockwise to lock it.



13. Put the print cartridge set back into the printer.



Caution: There is a risk of pinching your fingers or hands when repositioning the print cartridge set. Hold the handle parts of the basket for this operation.

14. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

15. Please support recycling of the used waste toner boxes.

Caution: Do not disassemble the waste toner box, and do not force it open. Doing so may cause toner to spray out, to be inhaled, or to soil your clothing and hands.

When disposing of the used waste toner box in unavoidable circumstances, put it in a plastic bag, and ensure to dispose according to the instructions provided by the local municipality.

Use the box and packing bag from the new waste toner box for when the used waste toner box is recycled.

Replacing the Fuser and Exit Unit



Warning: There is a risk of burns.

Work carefully because the fuser and exit unit is very hot. Be sure to hold the fuser unit handle when you lift it. When it is hot, wait until it cools down before starting the work.

1. If roll paper has been fed through the printer, press the **UNLOAD** button to cut the roll paper.

The cut paper will be fed to the supply side and the feeding side.



2. While pulling the fuser and exit unit locking lever towards you, pull out the fuser and exit unit.


3. While supporting the fuser and exit unit with one hand, lift up the fuser unit handle.



4. Hold the fuser and exit unit with both hands to remove it.



5. Remove the new fuser and exit unit from its packaging.



6. Pull the fuser and exit unit locking lever on the new fuser and exit unit towards yourself, and lift the fuser unit handle.



7. Lift the new fuser and exit unit with both hands and put it into the printer.



8. Push down the fuser unit handle, and firmly push it inside.



9. Lift up the fuser and exit unit locking lever.



10. Please support recycling of the used fuser and exit units.

Caution: Do not disassemble the fuser output unit, and do not force it open.

If you must dispose of the used fuser and exit unit, put it in a plastic bag and be sure to dispose of it according to the local laws and government regulations.

Use the box and packing bag from the new fuser and exit unit for when the used fuser and exit unit are recycled.

Cleaning

14

Required Materials for Cleaning

Prepare the following things for cleaning the various parts of the printer.

- Clean, lint-free cloth
- Cleansing solvent/IPA (isopropyl alcohol)
- Water or neutral cleanser
- Screwdriver
- Tweezers
- Cotton swabs

Cleaning Schedule

Check the condition of the equipment at the start and end of operations, and clean it as needed. Cleaning guidelines are noted below.

		Cleaning schedule	
		Every day	When dirt is noticeable
Unwinder	Surface	No	Yes
	Flange	Yes	Yes
	Side-Guide-8Inch	No	Yes
	Tension Bar	Yes	Yes
	Guide-Side-Roller-F	Yes	Yes
	Paper Guide	Yes	Yes
	Sheet Guide	Yes	Yes
	Roll Paper Guide	Yes	Yes
	F0 Roller Unit	Yes	Yes
	Sensor Cover (Upper)	Yes	Yes
	Sensor Cover (Lower)	Yes	Yes
	F1 Roller Unit	Yes	Yes
	Cutter Unit	Yes	Yes
Printer	Surface	No	Yes
	Paper Guide	Yes	Yes
	Feed Unit	Yes	Yes
	Sensor Cover (Lower)	Yes	Yes
	Sensor Cover (Upper)	Yes	Yes
	Exit Unit	No	Yes
	LED Heads	No	Yes
	Fuser Unit	No	Yes*

* Clean the feed path (including rollers) and fuser unit when changing the width of the roll paper. Streaks may appear when printing, particularly after changing the paper width from narrow to wide, because of the traces (paper dust etc.) left along the width of the paper.

When you change the width of the roll paper, check the conditions of the fuser unit and feed path and clean them, and then restart printing.

Cleaning the Unwinder

This section describes how to clean the various parts of the unwinder.

Cleaning the Surfaces of the Unwinder

Items to be prepared: Water or neutral washing agent, two sheets of soft, dry cloth

Note: Do not use Benzene or thinner as it may damage plastic parts and coating.

Note: Only use water or neutral washing agent.

Note: It is not necessary to oil the unwinder. Do not oil it.

1. Press and hold the **POWER** button for approximately 1 second to switch off the power supply.



Wait a moment, and the LED lamp on the **POWER** button will turn OFF.

2. Take water or neutral washing agent on one piece of cotton cloth, and wipe with thoroughly squeezed cloth.

Furthermore, wipe off with another dry cotton cloth.



Cleaning the Inside of the Unwinder

1. Press and hold the **POWER** button for approximately 1 second to switch off the power supply.



Wait a moment, and the LED lamp on the **POWER** button will turn OFF.

2. Press down the flange locking lever.



3. Remove the flange.



4. Rotate the roll paper holder knob to narrow the axial diameter of the roll paper holder.



5. Remove the roll paper.



6. Use a clean, lint-free cloth moistened with alcohol to wipe any dirt off the sides of the flange and Side-Guide-8Inch.



- 7. Mount the roll paper.
- 8. Press up on the tension bar open lever until it clicks.



9. While restraining the tension bar with one hand, use a lint-free cloth moistened with alcohol to wipe, in one direction, the dirt off the tension bar (1).



Use the hand that is restraining the tension bar to rotate it (2) as you finish cleaning each side, until the entire tension bar is clean.

10. While rotating the guide-side-roller-F, use a lint-free cloth moistened with alcohol to wipe any dirt off the sides and corners of the guide-side-roller-F.



11. Press down on the tension bar open lever until it clicks.



12. Lower the unwinder cover open lever to open the unwinder cover.



Note: Securely open the unwinder cover so it does not close while cleaning.

13. If there are scraps of paper or glue from the labels on the sheet guide, use a lint-free cloth moistened with alcohol to wipe it off.



14. Use a lint-free cloth moistened with alcohol to wipe, in one direction, the dirt off the sheet guide.



15. Move the roll paper guide to confirm that there is no glue or paper scraps on it. If there are scraps of paper or glue from the labels on it, use a lint-free cloth moistened with alcohol to wipe it off.



16. If there are scraps of paper or glue from labels on the ends of the paper guide, undo the screw and remove the paper guide.



17. Use a lint-free cloth moistened with alcohol to wipe the dirt off the sides of the paper guide (1) and ends of the sheet guide (2).



18. Install the paper guide and secure the screw.



19. Remove the screws, two places, for the F0 roller unit.



20. Remove the F0 roller unit.



21. As you rotate the gears with one hand, use a lint-free cloth moistened with alcohol to clean the top and bottom rollers on the F0 roller unit by wiping in just one direction.



Note: Lower the set lever on the rollers to rotate the top and bottom roller at the same time.

22. Install the F0 roller unit, and fasten the two screws.



23. Use a lint-free cloth moistened with alcohol to wipe, in one direction, the dirt off the sensor cover (upper).



24. Use a lint-free cloth moistened with alcohol to wipe, in one direction, the dirt off the sensor cover (lower).



25. Close the unwinder cover.



Caution: There is a risk of pinching your fingers or hands while closing the unwinder cover. Press on the top of the unwinder cover to close it.

Cleaning the Printer

This section describes how to clean the various parts of the printer.

Cleaning the Surfaces of the Printer

Items to be prepared: Water or neutral washing agent, two sheets of soft, dry cloth *Note:* Do not use Benzene or thinner as it may damage plastic parts and coating. *Note:* Only use water or neutral washing agent.

Note: It is not necessary to oil the device. Do not oil it.

1. Press and hold the **POWER** button for approximately 1 second to switch off the power supply.



Wait a moment, and the LED lamp on the **POWER** button will turn OFF.

2. Take water or neutral washing agent on one piece of cotton cloth, and wipe with thoroughly squeezed cloth.

Furthermore, wipe off with another dry cotton cloth.



Cleaning the Inside of the Printer

1. Press and hold the **POWER** button for approximately 1 second to switch off the power supply.



Wait a moment, and the LED lamp on the **POWER** button will turn OFF.

2. Grasp the top cover open lever and open the top cover.



3. Remove the print cartridge set.



4. Place the removed print cartridge set on a flat surface covered with newspaper or something similar, and cover it with paper so it is not exposed to direct light.



5. Turn the two belt locking keys counterclockwise to release the lock.



6. Hold the belt unit handles (blue) on the left and right, and remove the belt unit at an angle.



Caution: Be careful not to spill waste toner while removing the belt unit.

Caution: Be careful to not pinch your hands or fingers between the handle and the machine while removing the belt unit.

Caution: When removing the belt unit, do not tilt it further than is needed to remove it.

7. Place the belt unit with the right side down on a flat surface covered with paper.



Caution: Place the belt unit on a flat surface, as shown in the diagram above. Do not stand it on its side.



Caution: Do not touch the belt surface or damage the belt.



8. Pull up the paper guide release lever.





9. While the paper guide release lever is lifted, slide the paper guide in the direction of the arrow to remove it.



10. Turn the paper guide over.



11. Use a lint-free cloth moistened with alcohol to wipe the dirt off the F4 roller, F3 roller, F2 roller, and feed surface of the paper guide.



Caution: Do not touch the rollers (sponge areas) on the 2nd transfer roller.

Caution: Do not allow cloth or cotton swabs moistened with alcohol to touch the rollers (sponge areas) on the 2nd transfer roller.



Caution: Cleaning the rollers (sponge areas) on the 2nd transfer roller is prohibited. Touching or cleaning them could damage the surfaces of the rollers and affect print quality.

Caution: When you clean the rollers on the 2nd transfer roller, perform the 2nd transfer roller cleaning from the menu screen on the control panel (**Print Adjust > Transfer Roller Cleaning**). See "Menus" on page 152.

Caution: If the area around the 2nd transfer roller is dirty, clean it carefully without touching the rollers.

12. If the rollers and feed surface of the feed unit on the bottom of the paper guide are dirty, gently wipe them clean with a lint-free cloth or cotton swabs moistened with alcohol.

Caution: Do not apply force to the sensor lever.

Caution: Rotate the rollers slowly.



Note: While rotating the F4 roller with one hand, hold a lint-free cloth against the F3 roller and F2 roller to wipe off any dirt on them.

Note: The F2 roller and the F3 roller are positioned in difficult to see locations. Use a mirror to check the insides before you clean them. Also, use a light to brightly illuminate the relevant areas; after checking their conditions, clean them.

13. Open the sensor cover.



14. Use a lint-free cloth moistened with alcohol to wipe, in one direction, the dirt off the sensor cover (lower and upper).



15. While pulling the fuser and exit unit locking lever towards you, pull out the fuser and exit unit.



16. While supporting the fuser and exit unit with one hand, lift up the fuser unit handle.



17. Hold the fuser and exit unit with both hands and remove it to a level spot.



Caution: Be careful, the fuser unit is very hot immediately after printing.

18. Lower the release lever and open the exit feed cover.



Note: If you take your hand off the exit feed cover, the exit feed cover will close.

Note: Do not remove your hand from the exit feed cover while you are cleaning.

Note: The inlet of the fuser unit may be stained by toner during use. However, this does not particularly affect printing.

19. Use a lint-free cloth moistened with alcohol to wipe the dirt off exit 1 roller/paper feed surface.



20. Close the exit feed cover.



21. Use a lint-free cloth moistened with alcohol to wipe the dirt off exit 2 roller from the outside.



22. Lift the fuser and exit unit with both hands and put it into the printer.



23. Push down the fuser unit handle, and firmly push it inside.



24. Lift up the fuser and exit unit locking lever.



25. Align the positions of the paper guide's edge (1) and the guide notch on the printer.



Guide notch



Guide notch



Paper guide's edge (1)

26. Firmly push the paper guide all the way in the direction of the arrow, and then push on the A position to lock it.





27. Tilt the belt unit and align the arrow labels (red) on the belt unit and printer to position it, and then open the belt unit handles (blue) on the left and right.



Caution: Be careful to not pinch your hands or fingers between the handle and the machine while installing the belt unit.
28. Turn the two belt unit locking keys clockwise to lock it.



29. Put the print cartridge set back into the printer.



Caution: There is a risk of pinching your fingers or hands when repositioning the print cartridge set. Hold the handle parts of the basket for this operation.

30. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

Cleaning LED Heads

Clean the LED heads if the print results are blurry, white stripes appear, or if text is bleeding.

Clean the LED heads if the printed results show lengthwise white lines, if images are omitted lengthwise, or if there is bleeding around text. If the LED heads are dirty, it could cause a paper jam.

Caution: Do not use methyl alcohol or thinner. Doing so could damage the LED heads.

1. Press and hold the **POWER** button for approximately 1 second to switch off the power supply.



Wait a moment, and the LED lamp on the **POWER** button will turn OFF.

2. Grasp the top cover open lever and open the top cover.



3. Check if the LED heads are dirty because toner or something is on them.



4. Lightly wipe the lenses of the LED heads with a clean, lint-free cloth.



Caution: Do not use methyl alcohol or thinner. Doing so could damage the LED heads.

5. Confirm that the dirt has been removed from the LED heads.



6. Close the top cover.



Caution: When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.

Caution: There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

Cleaning the Fuser Unit

This procedure describes how to clean the inside of the fuser unit.

Streaks may appear when printing, particularly after changing the paper width from narrow to wide, because of the traces (paper dust etc.) left along the width of the paper.

When you change the width of the roll paper, check the condition of the fuser unit and clean it, and then restart printing.

- 1. Set a roll of paper on the unwinder. Use continuous paper that is 5" wide. See "Loading Media" on page 92.
- 2. Press the scroll button \blacktriangle or \blacktriangledown .



3. Select **Print Information**, and press the **OK** button.



4. Select **Cleaning Page**, and press the **OK** button.

Print Information	2/2 Page
1 Test Print-1	
2 Test Print-2	
3 Test Print-3	
4 Test Print-4	
5 Cleaning Page	
7 8 ↑ / ↓ Page	

5. Select **Execute**, and press the **OK** button. The printing for cleaning starts.



Dispose of the paper that you print during cleaning.

After cleaning is finished, remove the paper roll, load new paper, and start printing.

Cleaning the Cutter Unit

Do not dismantle any parts other than those specified in this procedure. Malfunctions could occur.

You should do daily maintenance to keep the machine in good condition as you use it. Check the condition of the machine when you start and stop using it, and clean it if needed.

Cleaning the Cutter Blades

Glue on the labels gradually accumulates on the cutter's blades while cutting roll paper. This causes problems with cutting and feeding.

Glue is more likely to accumulate on the cutter's blades when using continuous label paper (because the part being cut has glue on it). Clean the cutter's blades periodically to prevent cutting and feeding problems from occurring.

There is no specified frequency for cleaning, it depends on the type of roll paper being used (liner/glue materials). If cutting or feeding problems occur, clean the cutter's blades.

- Always turn off the power to the printer and remove the power cord from the electric outlet before you start work.
- Use the specified tools for cleaning work.
- Do not touch the blades of the cutter with your bare hands. There is a risk of injury.
- Do not use any solvents other than alcohol or isopropyl alcohol.
- After cleaning, wipe the machine dry.

Prepare the following things to clean the cutter's blades.

- Cleaning swab
- Wiping solvent (alcohol-based solvent)
- Flathead screwdriver
- Tweezers
- Soft cloth

The cleaning swabs and wiping solvent should be the recommended products. Contact Technical Support to purchase the recommended products.

1. Press and hold the **POWER** button for approximately 1 second to switch off the power supply.



Wait a moment, and the LED lamp on the **POWER** button will turn OFF.

2. Remove the power cord from the printer.



3. Remove the paper that is loaded in the unwinder.

4. Lower the unwinder cover open lever to open the unwinder cover.



Note: Securely open the unwinder cover so it does not close while cleaning.

5. Raise the cutter unit lock levers at both ends of the cutter unit.



6. Hold the handle of the cutter to remove the cutter unit.



Note: Be careful that the cutter unit does not hit the sensor cover (upper) when removing it.

7. Remove any paper left in the cutter unit.

If there is paper left inside the cutter unit after you have removed it, remove that paper.



- 8. Disassemble the cutter unit.
 - a. Use a flathead screwdriver to remove the 3 screws.



b. Remove the F1 roller unit.



Cutter part Hold the F0 roller unit.



Slide the F0 roller unit in the direction of the arrow.



Slide the F0 roller unit at an angle (arrow direction) and remove it.

Caution: There are blades inside the cutter unit for cutting roll paper. Do not touch the blades of the cutter with your hands. There is a risk of injury.

9. Remove any paper left inside the cutter unit.

If there is paper left inside the cutter unit after you have disassembled it, use the tweezers to remove that paper.



- 10. Clean the blades of the cutter.
 - a. If there is glue stuck to the inside of the cutter unit, use the tweezers to remove as much as possible.



b. Clean the glue off the cutter blades.

There are two types of cutter blades; the spiral blade (rotating blade) and the straight blade (fixed blade).



Caution: There are blades inside the cutter unit for cutting roll paper. Do not touch the blades of the cutter with your hands. There is a risk of injury.

c. Clean the fixed blade.

Apply alcohol solvent to a cleaning swab and press it against the straight blade (fixed blade) to remove glue stuck to the blade.



d. Clean the rotating blade.

Apply alcohol solvent to a cleaning swab and press it against the spiral blade (rotating blade) and move it back and forth as you manually turn the gears so the spiral blade faces towards the front so you can remove any glue stuck to the blade.



Spiral blade (rotating blade)

e. After cleaning the blades:

Confirm that there is no glue stuck to the blade of the cutter. If there is any glue remaining, clean the blades of the cutter again in the same way.

Confirm that there are no scraps or threads from the cloth left inside the blades of the cutter or the cutter unit. If there are any left, wipe the machine again.

After cleaning, wipe the machine dry.

11. Clean the F1 roller unit.

The F1 roller unit feeds paper through the cutter unit. When cleaning the cutter blades, check the surfaces of the top and bottom rollers of the F1 roller unit and clean them if

there is any glue, paper dust, or scraps of paper on the surfaces of the top and bottom rollers.

Rotate the gears with one hand and use your other hand to clean with a soft cloth to which alcohol-based solvent has been applied.

When wiping, wipe in one direction, and never wipe back and forth.

Lower the levers on both sides to rotate both the top and bottom rollers at the same time. Cleaning the lower roller:



Cleaning the upper roller:



12. Assemble the cleaned cutter unit.

Caution: There are blades inside the cutter unit for cutting roll paper. Do not touch the blades of the cutter with your hands. There is a risk of injury.

a. Assemble the F1 roller unit.



Cutter part Hold the F0 roller unit and insert it at an angle (arrow direction).



Slide the F0 roller unit in the direction of the arrow.



b. Use a flathead screwdriver to tighten the 3 screws.



- 13. Put the cutter unit into the unwinder.
 - a. Align the positions of the cutter unit lock levers on both ends of the cutter unit with the notches in the unwinder.



b. Lower the cutter unit lock levers at both ends of the cutter unit.



14. Close the unwinder cover.



Web Utility

15

Operating Environment

Computer with Microsoft Internet Explorer, Safari, Google Chrome, or Firefox installed Computer running TCP/IP *Note:* Check to make sure that the security setting of the web browser is MEDIUM.

Starting Up

- 1. Start up a web browser on your PC.
- In the address bar, enter the following URL then press Enter: http://<printer IP address>/.
 This displays the printer status screen.

If the IP address includes a one-digit or two-digit number, do not enter leading zeros. Doing so may cause communication problems.

Example: Correct: http://192.168.0.2/

Incorrect: http://192.168.000.002/

Logging in as an Administrator

To change printer settings using a web browser, you need to log in as a printer administrator.

1. Click Administrator Login.



2. For **Username** enter "root", for **Password** enter the current password, and then click **OK**.

The password is the same as the control panel "Administrator Password". The factory default setting of the administrator password is 999999.

3. Specify the configuration information that can be checked on the network, and then click **OK** or **SKIP**.

Setup Printer	
his is the first login to th f you would like to perfo 'OK". Otherwise press "S	rm basic setup of the device, please complete the fields, and pr
Printer Identification	
Printer Name	QuickLabelQL-3005-91F (Max.31 characters)
	This is the devices identity on the network (sysName, and Printer Name).
Short Printer Name	QL-300s-91F5F9 (Max.15 characters)
	This is Printer Name for WINS. A maximum of 15 characters can b used (alpha/numeric sharacters and "-" are acceptable.)
Printer Location	(Max.255 characters)
sset Number	(Max.32 characters)
Contact Name - Administrator	(Max.255 characters)
Protocol	
CP/IP	Enable
NetBIOS over TCP	Enable •

Note: You can skip configuring settings by clicking SKIP.

Note: Selecting the **Do not show this page again** checkbox, and then clicking **OK** or **SKIP** will cause this page not to be displayed any more.

4. This will display the screen below.

View Information	Print Cartridge Remaining			
O Status			Cyan:	90%
	the second terms	Refresh	Magenta:	90%
Feeder Count	Ready To Prin	Ready To Print		90%
O Supplies Life		Status windo	Black:	90%
🖸 Usage Report			white:	80%
⊕ Network	Printer Information		Print Service	Enabled
O System	Printer Name	QuickLabelQL-300s-91F5F9	LPR	0
	IPv4 Address	172.16.2.236	Port9100	0
	IPv6 Address		FTP	0
	fe80:0000:0	fe80:0000:0000:0000:0225:36ff:fe91:f5f9		0
	0000:0000:000	0:0000:0000:0000:0000:0000	Setting Service	Enabled
	MAC Address	00:25:36:91:F5:F9	SNMP	0
	Printer Location		WEB	
	Serial Number	BETA200003	Telnet	0
	Asset Number			
	Contact Name - Administrator			
	HDD	Installed		
	RAM	2048MB		
	Version Information			
	Firmware Version	AA5.20_0_4		
	CU Version	99.38		
	PU Version	00.06.66		
	Network FW Version	00.14		
	Web Bemole Version	00.33		

Item List

Appears for a person logged in as a printer administrator.

View Information



Item	Description
Status	Shows the current printer status. All warnings and errors generated by the printer are shown as "problem information". You can also check the operational status of each network service, a configuration list, and the IP address assigned to the printer.
Tray Count	Shows the print count.
Supplies Life	Shows the remaining life of wear items.
Usage Report	Shows usage reports.
Network	Can be used to check general information, TCP/IP status, maintenance information, and other network-related setup information.
System	Shows versions, memory capacity, flash memory capacity, and system related information.

Print Information

and the second se	ation Printer Menu Admin Setup Calibration Links		
Print Information	Information Print		
Information Print	Select a appropriate Radio Button and press the Print button to print information page.		
	Configuration		
	Demo Page DEMO1 +		
	🕤 File List		
	🕤 Usage Report		
	💮 Error Log		
	O Color Profile List		
	Test Print-1		
	Test Print-2		
	Test Print-3		
	Test Print-4		
	🕐 Cleaning Page		

Item	Description
Information Print	Can be used to configure print and check information about the network, the font list, and other printer settings.

Printer Menu

	General Printer Settings		
General Printer Settings		QuickLabelQL-300s-91F (Max.31 characters)	
O Unwinder Config	Printer Name	This is the devices identity on the network (systeme, and Printer Name).	
O Cutter Setup	Short Printer Name	QL-300s-91F5F9 (Max.15 characters)	
System Adjust		This is Printer Name for WINS. A maximum of 15 characters can be used (alpha/numeric characters and "-" are acceptable).	
 Print Adjust Unit of Measurement 	Printer Location	(Max: 255 characters)	
	Asset Number	(Max.32 characters)	
	Contact Name - Administrator	(Max.255 characters)	

Item	Description
General Printer Settings	Can be used to configure the printer name, asset number, installation location, and other printer settings.

Item	Description
Unwinder Config	You can do settings related to the unwinder and the paper loaded in the unwinder.
Cutter Setup	You can set the cutter operations and the cutting interval. Appears when the unwinder is mounted.
System Adjust	Can be used to configure the power save time, and for clearing warnings, timeout printing, and other printer operations.
Print Adjust	Can be used to configure print position adjustment, print quality, and to adjust other settings.
Unit of Measurement	You can set the units that are displayed.

Admin Setup



Item	Description
Network Setup	Can be used to configure TCP/IP and other protocol settings.
Print Setup	Can be used to configure toner saving and other printer settings.
PCL Setup	Can be used to configure PCL font and other PCL settings.
Color Setup	Can be used to configure PostScript settings for the CMYK data conversion process and other color settings.
Management	Can be used to configure the power setup, job cancel setup, and other printer settings.

Calibration

Calibration	Normal Setting			
Calibration	Density Adjustment Media	Standard Me	dia 🔻	
	Color Density :			
	Cyan Density	0 -		
	Magenta Density	0 -		
	Yellow Density	0 🕶		
	Black Density	0 -		
	White Density	0 -		
			es below.	
	Adjust Color Der	nsity	Adjust Color Registration	
	Adjust Color Der Automatic Adjust			
		ment djusted Press the	Adjust Color Registration Automatic Adjustment Registration is automatically adjusted periodically by the printer	
	Automatic Adjust Density is automatically an periodically by the printer. Execute button to initiate adjustment. Auto Density Mode :	ment djusted Press the a Density	Adjust Color Registration Automatic Adjustment Registration is automatically adjusted periodically by the printer Press the Execute button to initiate	

Item	Description
Normal Setting	Adjusts the density of each color and other print quality settings.
Customize Menu	Used to perform density and registration adjustment.

Links



Item	Description
Links	Displays links configured by the administrator and links configured by the manufacturer.

Item	Description
Edit Links	Allows administrator to set any URL. Up to five support links and five other links can be registered. Be sure to include http:// when entering the URL.

Changing an Administrator Password

You can use the procedure below to change the password for logging in to the printer as an administrator.

1. Click Admin Setup > Management.



2. Click Change Password.



3. In **New Password**, enter the new password. In **Verify Password**, enter the new password again.

Admin Setup	Admin Password		
⊕ Network Setup © Print Setup	New Password		(6-12 characters)
O PS Setup	Verify Password	•••••	(6-12 characters)
O PCL Setup			
O Color Setup			
O Management			
O RAM Setup			
O Panel Setup			
O Time Setup			
O Power Setup			
☑ Job Cancel Setup			
Media Operation Setup			
O Change Password			
O Settings			
Local Interface			

The password will appear on the screen as a series of dots as you enter it.

You can enter from 6 to 12 alphanumeric English characters for a password.

Note that passwords are case-sensitive, so enter upper-case and lower-case letters correctly.

- 4. Click **Submit**.
- 5. This saves the settings on the printer.

You do not need to re-start the printer. Use the new password the next time you log in as an administrator.

Checking Printer Settings From a Computer

You can use the procedures below to check the printer status from a computer over a network.

To check using the "Status Screen"

1. Access the printer web page and open the "Status" screen.

View Information			Dates Control of	e Remaining :
Status	-		Cyan:	905
O Feeder Count	4-14-14-14-14		Magenta:	909
	Ready To Prin	1t Refresh	Yellow:	909
O Supplies Life			Black:	909
			white:	801
🖸 System	Printer Information		Print Service	Enabled
	Printer Name	QuickLabelQL-300s-91F5F9	LPR	٥
Administrator Login	IPv4 Address	172.16.2.236	Port9100	0
	IPv6 Address		FTP	0
	fe80:0000:0	IPP	0	
	0000:0000:000	Setting Service	Enabled	
		Global Address	SNMP	0
	MAC Address Printer Location	00:25:36:91:F5:F9	WEB	0
	Serial Number	BETA200003	Telnet	0
	Asset Number	BETA200003		
	Contact Name - Administrator			
	HDD	Installed		
	RAM	2048MB		
	Version Information			
	Firmware Version	AA5.20_0_4		
	CU Version	99.38		
	PU Version	00.06.66		
	Network FW Version	00.14		
	Web Bemele Version	00.22		

To check using the "Status Window"

1. Click **Status Window**, which will display the screen shown below.

iew Information Print Inform	addin i Printer meno (Admin Setup i	Calibration Lin	KS		
View Information				Print Cartridg	and an other designs of the local division o
9 Status			Refresh	Cyani E	90
Feeder Count	Ready To Prin	ıt		Magenta:	
) Supplies Life	15		Status Windo	Blackt	90
) Usage Report				white:) 80
Network	Printer Information			Print Service	Enabled
) System	Printer Name	Quickl abel(L-300s-91F5F9	LPR	
зувсен	IPv4 Address	172.16.2.23		Port9100	ŏ
	IPv6 Address			FTP	ŏ
	fe80:0000:0	000:0000:022	5:36ff:fe91:f5f9	IPP	ŏ
			inic-Local Address	Setting Service	Enabled
	0000:0000:0000	0:0000:0000:0	Global Address	Setting Service	Enabled
	MAC Address	00:25:36:9	1:F5:F9	WEB	
	Printer Location			Telnet	~
	Serial Number	BETA200003		Teinet	0
	Asset Number				
	Contact Name - Administrator				
	HDD	Installed			
	RAM	2048MB			
	Version Information				
	Firmware Version	AA5.20_0_4	6		
	CU Version	99.38			
	PU Version	00.06.66			
	Network FW Version	00.14			
	Web Demote Version	00.22			
			ldress : 172 cation : umber :	.16.2.236	
	\bigcirc	Ready T	o Print Ref	f resh tatus of your ve button.	device

Information about the printer and its status is displayed in this window. Click **Refresh** to update the window with the latest information.

The color of the printer status icon indicates whether printing is possible.

- Green No error, online
- Yellow Minor malfunction (printing still possible)
- Red Serious malfunction (printing not possible)
- Gray Offline

Changing Printer Settings From a Computer

You can use the procedure below to change printer settings.

1. Access the printer web page and log in as an administrator.

Printer Menu	General Printer Setti	ngs
 General Printer Settings Unwinder Config 	Printer Name	QuickLabelQL-300s-91F (Max.31 characters) This is the devices identity on the network (systeme, and Printer Name).
O Cutter Setup	Short Printer Name	QL-3009-91F5F9 (Max.15 characters)
System Adjust		This is Printer Name for WINS. A maximum of 15 characters can be used (alpha/numeric characters and "+" are acceptable).
 Print Adjust Unit of Measurement 	Printer Location	(Max:255 characters)
	Asset Number	(Max.12 characters)
	Contact Name - Administrator	
		(Max.255 characters)
		(Max.235 characters)

2. After changing the settings you want, click **Submit**.

Encrypting Communication (SSL/TLS)

Communication between the computer (client) and printer can be encrypted when configuring settings, performing IPP printing, and when receiving print data with FTP protocol.

(Encryption of SSL/TLS Communication)

Configuring Settings

The procedure below shows how to use the web to create a certificate with the printer.

The two types of certificates below can be created.

Self-signed certificate

CA certificate (CSR creation)

Note: If the printer's IP address is changed from what it was when a certificate was created, that certificate become invalid. Do not change the printer's IP address after creating a certificate.

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click in the following sequence: Admin Setup > Network Setup > Security.

Admin Setup	Protocol		
Network Setup	TCP/IP	Enable	
General Network Settings	NetBIOS over TCP	Enabl	e 🔻
O TCP/IP			
O NBT	Service		
@ Email	Web (Port No. 1 80)	Enabl If "Dis and, y	e 👻 able*, you can not access from your Web browser. ou can not print with WSD-port.
@ SNMP	IPP (Port No. : 631)	Enabl	e •
⊕ IPP	Telnet	Disab	le 🕶
O IEEE802.1X	FTP	Disab	le 🔻
O Security	SNMP	Enabl	e •
Protocol ON/OFF	SNTP	Disab	le 🕶
O IP Filtering	Local Ports	Enabl	e •
O MAC Address Filtering		1 Percents	
O SSL/TLS	Port Number		
O IPSec	You can not set port num		
O Change Network	Web	80	(1-65535)
Password	SMTP	25	(1-65535)
Maintenance			
Print Setup			
PCL Setup			

- 3. Click SSL/TLS.
- 4. Select the type of the certificate to create in **Step 1**.



- 5. Enter information for the Common Name, Organization, and other items.
 - If you selected "Use a certificate issued by a certificate authority", perform detailed content input and other certificate issuing procedures in accordance with issuing authority procedures.

• If you selected a self-signed certificate, the printer's IP address will be set for Common Name.

If you want to change the key exchange method and key size, click **Key Exchange method**. (The initial default setting is RSA, 1024 bits. Normally, you should use this setting without modifying it.)

6. Click Submit.

7. Self-signed Certificate

Note: This step applies only to self-signed certificates. To create a CA certificate, proceed to step 8.

a. This displays the input.

Check the contents, and then click OK. This creates the certificate.

This completes self-signed certificate creation.

Settings are saved on the printer and the network function is restarted.

- b. Perform steps 1 through 3 of this procedure to display the encryption (SSL/TLS) setup screen, and then configure protocol settings to enable encryption.
- c. Click Submit.

8. CA Certificate

Note: This step applies only to CA certificates.

a. This displays the input.

Check the contents, and then click **OK**.

b. Extract the CSR and send it to the issuing authority. (For a CA certificate)

Copy the contents of the text box from "----- BEGIN CERTIFICATE REQUEST -----" to "----- END CERTIFICATE REQUEST -----". Depending on the CA, sending the CSR may mean pasting it into web page, sending it as a file, attaching it to a mail message, etc.

c. This installs the certificate issued by the CA (using the web). (For a CA certificate)

Perform steps 1 through 3 of this procedure to display the encryption (SSL/TLS) setup screen.

Paste the part of the generated certificate from "----- BEGIN CERTIFICATE -----" to "----- END CERTIFICATE -----" into the text box, and then click **Send**.

This completes CA certificate creation.

Settings are saved on the printer and the network function is restarted.

- d. Perform steps 1 through 3 of this procedure to display the encryption (SSL/TLS) setup screen, and then configure protocol settings to enable encryption.
- e. Click Submit.

Usage Method

1. Start up the web browser, and then enter "https://<printer IP address>" as the address to connect.

Printing with IPP

Printing can be performed using IPP.

To enable IPP printing

- 1. Access the printer web page and log in as an administrator.
- 2. Select Admin Setup.
- 3. Select the following: Network Setup > IPP > Setup.
- 4. Follow the instructions that appear on the display to configure the setup.
- 5. Click Submit.

To set up the printer as an IPP printer (Windows)

- 1. Click Start and select Control Panel in Windows.
- 2. Select View devices and printers > Add a printer.
- 3. On the Add a device wizard, select Add a network, wireless or Bluetooth printer.

P Add a device	-		×
Choose a device or printer to add to this PC Searching for devices			7
The printer that I want isn't listed			
1	Next	Car	ncel

- 4. From the list of usable printers, select **The printer that I want isn't listed**.
- 5. Select Select a shared printer by name.

🖶 Add Printer
Find a printer by other options
○ My printer is a little older. Help me find it.
Select a shared printer by name
http://192.168.0.2/ipp Browse
Example: \\computername\printername or http://computername/printers/printername/.printer
○ Add a printer using a TCP/IP address or hostname
○ Add a Bluetooth, wireless or network discoverable printer
Add a local printer or network printer with manual settings
Next Cancel

- 6. Enter "http://<printer IP address>/ipp" or "http://<printer IP address>/ipp/lp", and then click **Next**.
- 7. Click Have Disk.

Install	the printer driver			
~	Choose your printer f	rom th	e list. Click Windows Update to see more models.	
5			installation CD, click Have Disk.	
	To install the driver to	om an i	Installation CD, click Have Disk.	
Manufa	cturer	^	Printers	
Brother			Brother Color Leg Type1 Class Driver	
Canon			Brother Color Type3 Class Driver	
Dell			Rother Color Type4 Class Driver	
Eastma	n Kodak Company		Rother Generic Jpeg Type1 Class Driver	
FROM		~	m Deather Councils Inc. Traces Class Dataset	

- 8. Download the driver installation software. You can obtain the software from www.QuickLabel.com/downloads.
- 9. For **Copy manufacturer's files from**, browse to the appropriate folder, and then click **Find**.

PCL driver: \Drivers\PCLXL

- 10. Select the INF file, and then click **Open**.
- 11. Click OK.
- 12. Select the printer name, and then click **Next**.
- 13. Click Next.
- 14. Click Finish.
- 15. A test page is printed after installation is complete.

Encrypting Communication (IPsec)

You can configure the settings in this section to encrypt and prevent tampering with communication between the computer (client) and printer at the network layer level.

The IKE protocol supported by this printer is "IKEv1". The communication mode supported by this printer is "Transport Mode". It does not support "Tunnel Mode". Printer response may slow down while IPsec is enabled, depending on network communication conditions.

Note: IPsec does not operate with the mail send function or SNMP Trap function.

Setup Flow

Configure printer settings before configuring computer settings.

To configure the printer setup

The procedure below shows how to use the web to enable IPsec.

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click in the following sequence: Admin Setup > Network Setup > Security.

Admin Setup	Protocol	
Network Setup	TCP/IP	Enable
O General Network Settings	NetBIOS over TCP	Enable *
O TCP/IP	-	
O NBT	Service	
@ Email	Web (Port No. 1 80)	Enable • If "Disable", you can not access from your Web browser, and, you can not print with WSD-port.
@ SNMP	IPP (Port No. : 631)	Enable -
@ IPP	Telnet	Disable 👻
O IEEE802.1X	FTP	Disable 🔻
O Security	SNMP	Enable -
Protocol ON/OFF	SNTP	Disable 👻
O IP Filtering	Local Ports	Enable -
O MAC Address Filtering	hendersoder beiden einen son	Tenoroson .
O SSL/TLS	Port Number	
O IPSec	You can not set port num	ber that is already used.
Change Network	Web	80 (1-65535)
Password	SMTP	25 (1-65535)
Maintenance		
Print Setup		
S Setup		
CL Setup		

3. Click the **IPsec** tab.

Admin Setup	IPSec	1.4				
ONetwork Setup	STEP1.	IPSec				
General Network Settings O TCP/IP	IPSec Disable - When this feature is enabled, the printer will not go to sleep					
	STEP2.	IP Address Settings	(
O NBT	(Exampl	e: "192.168.0.2 ")				
@ Email	Complet		s only. Value of 0.0.0.0 i			
⊕ SNMP		IP Address		IP Address		
() IPP	1	0.0.0.0	26	0.0.0		
O IEEE802.1X	2	0.0.0.0	27	0.0.0.0		
O Security	3	0.0.0.0	28	0.0.0		
C Protocol ON/OFF	4	0.0.0	29	0.0.0		
© IP Filtering	5	0.0.0.0	30	0.0.00		
-	6	0.0.0.0	31	0.0.0.0		
MAC Address Filtering	7	0.0.0.0	32	0.0.0.0		
O SSL/TLS	8	0.0.0.0	33	0.0.0.0		
O IPSec	9	0.0.0.0	34	0.0.0.0		
Change Network Password	10	0.0.0.0	35	0.0.0.0		
Maintenance	11	0.0.0	36	0.0.0.0		
O Print Setup	12	0.0.0.0	37	0.0.0.0		
D PS Setup	13	0.0.0.0	38	0.0.0		
D PCL Setup	14	0.0.0	39	0.0.0		
Color Setup	15	0.0.0.0	40	0.0.0.0		
T Management	16	0.0.0.0	41	0.0.0.0		

- 4. Under **STEP1**, enable **IPsec**.
 - Set Enable for IPsec to encrypt communications from the computer with the IP address you specify in STEP2.
 - The web page will not open if IPsec setup fails because the configured parameters do not match the computer, or because of some other reason. If this happens, use

the control panel Network Setup item to disable IPsec, or perform network initialization to disable IPsec.

Admin Setup	IPSec				
ONetwork Setup	STEP1. IPSec				
General Network Settings	IPSec		Enable •		
O TCP/IP	1000000			abled, the printer will not go to slee	
O NBT		IP Address Settings e: "192.168.0.2 ")			
@ Email	Complet	e / valid IP Addresse	s only. Value of 0.0.0.0 is	an invalid address.	
(B) SNMP		IP Address		IP Address	
() IPP	1	0.0.0.0	26	0.0.0	
O JEEE802.1X	2	0.0.0.0	27	0.0.0.0	
O Security	3	0.0.0.0	28	0.0.0.0	
© Protocol ON/OFF	4	0.0.0.0	29	0.0.0.0	
© IP Filtering	5	0.0.0.0	30	0.0.00	
	6	0.0.0.0	31	0.0.0.0	
MAC Address Filtering	7	0.0.0.0	32	0.0.0	
O SSL/TLS	8	0.0.0.0	33	0.0.0	
IPSec	9	0.0.0.0	34	0.0.0.0	
O Change Network Password	10	0.0.0.0	35	0.0.0.0	
Maintenance	11	0.0.0.0	36	0.0.00	
D Print Setup	12	0.0.0.0	37	0.0.0.0	
0 PS Setup	13	0.0.0.0	38	0.0.0.0	
	14	0.0.0.0	39	0.0.0.0	
D Color Setup	15	0.0.0.0	40	0.0.0.0	
© Management	16	0.0.0.0	41	0.0.0.0	

- 5. Under **STEP2**, enter the host IP address.
 - Use an IP address to specify a host that is allowed to print and configure settings.
 - For the IPv4 address, use single-byte numerals separated by periods (.).
 - For the IPv6 address, use single-byte alphanumeric characters separated by colons (:). Abbreviated notation is not supported.
 - Entry of IP address 0.0.0.0. is invalid.

Admin Setup	IPSec	1. A				
Network Setup	STEP1. IPSec					
General Network Settings	IPSec		Enable •			
O TCP/IP	When this feature is enabled, the printer will not go to slee STEP2. IP Address Settings (Example: '192.168.0.2 ') Complete / valid IP Addresses only. Value of 0.0.0.0 is an invalid address.					
O NBT						
@ Email						
⊕ SNMP		IP Address		IP Address		
() IPP	1	192.168.0.0	26	0.0.0		
O IEEE802.1X	2	0.0.0.0	27	0.0.0.0		
O Security	3	0.0.0	28	0.0.0.0		
© Protocol ON/OFF	4	0.0.0	29	0.0.0		
© IP Filtering	5	0.0.0.0	30	0.0.0.0		
	6	0.0.0.0	31	0.0.0.0		
MAC Address Filtering	7	0.0.0.0	32	0.0.0.0		
O SSL/TLS	8	0.0.0.0	33	0.0.0.0		
IPSec	9	0.0.0.0	34	0.0.0.0		
Change Network Password	10	0.0.0.0	35	0.0.0		
Maintenance	11	0.0.0	36	0.0.0		
O Print Setup	12	0.0.0.0	37	0.0.0.0		
D PS Setup	13	0.0.0.0	38	0.0.0.0		
	14	0.0.0	39	0.0.0		
Color Setup	15	0.0.0.0	40	0.0.0.0		
© Management	16	0.0.0.0	41	0.0.0.0		

- 6. Under **STEP3**, configure the settings of the Phase1 Proposal parameters.
 - For IKE Encryption Algorithm, select one of the following settings: AES-CBC 256, AES-CBC 192, AES-CBC 128, 3DES-CBC, DES-CBC.

- For IKE Hash Algorithm, select SHA-1 or MD5.
- For Diffie-Hellman Group, select Group2 or Group1.
- For Lifetime, enter and set a value in the range of 600 (seconds) to 86,400 (seconds).

View Information Print Information	Printer Me	nu <u>Admin Setup</u> <u>Calibrat</u>	tion Links	1		
Admin Setup	18	0.0.0.0		43	0.0.0.0	
Network Setup	19 0.0.0.0			44	0.0.0.0	
General Network Settings	20 0.0.0.0			45	0.0.00	
O TCP/IP	21	0.0.0.0		46	0.0.0.0	
O NBT	22	0.0.0.0		47	0.0.0.0	
@ Email	23	0.0.00		48	0.0.00	
(I) SNMP	24	0.0.0.0		49	0.0.0.0	
⊕ IPP	25	0.0.0		50	0.0.0.0	
O IEEE802.1X	STEP3.	Phase1 Proposal Sett	ings			
O Security	IKE Encryption Algorithm		AES-CBC 128 -			
O Protocol ON/OFF	IKE Hash Algorithm Diffle-Hellman Group LifeTime		SHA-1 ·			
O IP Filtering			Group2 -			
O MAC Address Filtering						
O SSL/TLS	STEP4. Pre-Shared Key Setti		ngs			
IPSec	Dra Cha	and Kay				
O Change Network	Pre-Shared Key		(Max.64 Characters)			
Password	STEP5. Key PFS Settings					
Maintenance	Key PFS		NOPFS -			
9 Print Setup	Key PFS Diffie-Hellman Group		None -			
D PS Setup	STEP6. Phase2 Proposal Set		ings			
D PCL Setup	ESP		Enable			
O Color Setup	ESP Encryption Algorithm		AES-CBC 128 ·			
@ Management	ESP Authentication Algorithm		SHA-1 .			

7. Under **STEP4**, set the pre-shared key.

For **Pre-Shared Key**, enter at least one and no more than 64 single-byte alphanumeric characters. Here, we will show an example where "ipsec" is entered for the character string.

Admin Setup	18	0.0.0.0	_	43	0.0.0.0	-	
ONetwork Setup				1.000		-	
General Network Settings				44	0.0.0.0	-	
O TCP/IP	20	0.0.0.0		45	0.0.0	_	
	21	0.0.0.0		46	0.0.0		
O NBT	22	0.0.0.0		47	0.0.0		
@ Email	23	0.0.0.0		48	0.0.00	1	
(B SNMP	24	0.0.0.0		49	0.0.0.0	1	
⊕ IPP	25	0.0.0.0		50	0.0.0.0	1	
O IEEE802.1X	STEP3	Phase1 Proposal Sett	tings	0			
O Security	20120121	ryption Algorithm	AES-CBC	128 -			
Protocol ON/OFF	IKE Hash Algorithm SHA-1 •						
O IP Filtering	Diffie-Hellman Group		Group2 * 28800 sec (600-86400)				
O MAC Address Filtering							
O SSL/TLS	STEP4. Pre-Shared Key Set		Territe and second				
O IPSes	Dec Ch	and Kass	ipsed				
O Change Network	Pre-Shared Key		(Max.64 Characters)				
Password	STEP5. Key PFS Settings						
Maintenance	Key PFS		NOPFS -				
) Print Setup	Key PFS Diffle-Hellman Group		None -				
D PS Setup	STEP6. Phase2 Proposal Set		ttings				
D PCL Setup	ESP		Enable				
🗆 Color Setup	ESP Encryption Algorithm		AES-CBC 128 -				
T Management	ESP Authentication Algorithm		SHA-1 -				

- 8. Under **STEP5**, set the Key PFS.
 - a. For **Key PFS**, select KEYPFS or NOPFS.

ew Information Print Information Admin Setup				hand	a construction of the second se	
Network Setup	18	0.0.0.0		43	0.0.0.0	
O General Network Settings	19 0.0.0.0 20 0.0.0.0			44	0.0.0.0	
				45	0.0.0	
O TCP/IP	21	0.0.0.0		46	0.0.0.0	
O NBT	22 0.0.0.0			47	0.0.0.0	
⊕ Email	23	0.0.0		48	0.0.0.0	
③ SNMP	24	0.0.0		49	0.0.0.0	
(B) IPP	25	0.0.0		50	0.0.0.0	
O IEEE802.1X	STEP3.	Phase1 Proposal Set	tings			
O Security	IKE Encryption Algorithm		AES-CBC	128 -		
O Protocol ON/OFF	IKE Hash Algorithm Diffie-Hellman Group LifeTime		SHA-1 ·			
O IP Filtering			Group2 * 28800 sec (600-86400)			
MAC Address Filtering						
O SSL/TLS	STEP4. Pre-Shared Key Setti		ings			
O IPSec	Pre-Shared Kev Ipsec					
O Change Network	Pre-Sna	ored key	(Max.64 Characters)			
Password	STEP5. Key PFS Settings					
Maintenance	Key PFS		KEYPFS -			
🛛 Print Setup	Key PFS Diffie-Hellman Group		None -			
O PS Setup	STEP6. Phase2 Proposal Set		tings			
O PCL Setup	ESP		Enable			
Color Setup	ESP Encryption Algorithm		AES-CBC 128 ·			
Management	ESP Authentication Algorithm		C1110 0			

- b. If **Key PFS** is selected, select one of the following settings for **Key PFS Diffie-Hellman Group**: Group 2, Group 1, None.
- 9. Under **STEP6**, configure Phase2 Proposal settings.

To configure ESP settings

- a. For **ESP Encryption Algorithm**, select one of the following settings: AES-CBC 256, AES-CBC 192, AES-CBC 128, 3DES-CBC, DES-CBC.
- b. For **ESP Authentication Algorithm**, select SHA-1, MD5, or OFF. If you select **OFF**, the ESP verification algorithm will not be applied.

To configure AH settings

- a. For **AH Authentication Algorithm**, select SHA-1 or MD5.
- b. For **LifeTime**, enter and set a value in the range of 600 (seconds) to 86,400 (seconds).
- 10. Click Submit.
- 11. Settings are saved on the printer and the network function is restarted.

To configure computer settings

- 1. Click **Start**, and then select **Control panel** in Windows.
- 2. Click System and Security.
- 3. Click Administrative Tools.
4. Double-click Local Security Policy.

→ * ↑ 銜 > !	Control Panel > System and Security > Administra	tive Tools	ΥÖ	Search Administrative Tools	p
	Name	Date modified	Type	Size	
🖈 Quick access	Component Services	3/19/2017 3:18 AM	Shortcut	2 KB	
ConeDrive	S Computer Management	3/19/2017 3:18 AM	Shortcut	2 KB	
	Defragment and Optimize Drives	3/19/2017 3:18 AM	Shortcut	2 KB	
This PC	Jan Disk Cleanup	3/19/2017 3:19 AM	Shortcut	2 KB	
Desktop	Event Viewer	3/19/2017 3:18 AM	Shortcut	2 KB	
Documents	A iSCSI Initiator	3/19/2017 3:18 AM	Shortcut	2.KB	
🕹 Downloads	Local Security Policy	3/19/2017 3:19 AM	Shortcut	2 KB	
1 Music	DOBC Data Sources	3/19/2017 3:18 AM	Shortcut	2 KB	
E Pictures	Performance Monitor	3/19/2017 3:18 AM	Shortcut	2 KB	
Videos	Print Management	3/19/2017 3:19 AM	Shortcut	2 KB	
Local Disk (C:)	Sesource Monitor	3/19/2017 3:18 AM	Shortcut	2 KB	
Eucar Disk (ci)	A Services	3/19/2017 3:18 AM	Shortcut	2 KB	
Local Disk (C:)	System Configuration	3/19/2017 3:18 AM	Shortcut	2 KB	
Network	5 System Information	3/19/2017 3:18 AM	Shortcut	2 KB	
- INCOMENT	💬 Task Scheduler	3/19/2017 3:18 AM	Shortcut	2 KB	
	🔗 Windows Firewall with Advanced Security	3/19/2017 3:19 AM	Shortcut	2 KB	
	Windows Memory Diagnostic	3/19/2017 3:18 AM	Shortcut	2 KB	

5. Select Windows Firewall with Advanced Security - Windows Firewall with Advanced Security - Local Group Policy Object, right-click Connection Security Rules, and then select New Rule.

Security Settings Account Policies Count Policies Vindows Firewall with Adva Windows Firewall with A Mill Inbound Rules Cutbound Rules Cutbound Rules	inced Seci idvanced	Name	~	There are no item	Enabled is to show i	Endpoint 1 n this view.	Endpoi	int 2	Authe
Connection Security Network List Manager Pc	New Rul	le							
Public Key Policies Software Restriction Polic Application Control Polic	Filter by Filter by		2						
S IP Security Policies on Lo Advanced Audit Policy C	View		>						
	Refresh Export L	ist							
	Help								
-		<							

6. Select **Custom**, and then click **Next**.

P New Connection Security	Rule Wizard	×
Rule Type		
elect the type of connection p	ecurity rule to create.	
Region Contraction of the Stepse in Contraction of the Stepse in Registrements in Registrem	What type of connection security rule would you like to create? Market type of connections based on authomication criteria, such as domain membership or health status. Authomication connections from the specified computers. Authomicate connections from the specified computers. Authomicate connections between two computers. Cauroal Custom rule. Note: Connections security rules specify how and when authomication occurs, but they do not allow connections. To allow a connection, create an inboand or ourboand rule.	
	do not allow connections." To allow a connection, create an inbound or outbound rule."	

7. Select Endpoint 1 and 2. Configure as required, and then click **Next**.

New Connection Security	Kule wizard	
Endpoints		
Specify the computers between	which secured connections will be established using IPsec.	
Steps		
Bule Type	Greate a secured connection between computers in Endpoint 1	and Endpoint 2.
Endpoints	Which computers are in Endpoint 1?	
Requirements	Any IE address	
Authentication Method	O These IP addresses:	
Protocol and Ports		Bas
Profile		h_dit
a Nome		Bennive
	Customize the interface types to which this rule applies:	Customize
	Which computers are in Endpoint 2?	
	Any IP address	
	O These IP addresses:	
		Add.
		.Edjt
		Fergure

8. Select Require authentication for inbound connections and request authentication for outbound connections, and then click Next.

Mew Connection Security P	Rule Wizard	×
Requirements		
Specify the authentication requi	rements for connections that match this rule.	
Steps Rub Type Endpoints Populaments Authenticities Method Protect and Ports Profile Name	When do you want authentication to accur? Procurst authentication for indocend and outboand connections. Authenticate whenever possible but authentication is not required. Procurse authentication for indocend connections and request authentication for authenticate whenever possible but authentication is not required. Indoced connections must be authenticated to be allowed. Outboard connections are authenticated whenever possible but authentications in or request. Program authentication for inboard and outboard connections Both inboard and outboard connections must be authenticated to be allowed. Do not authenticate No connections will be authenticated.	
	< Back Next > Cancel	

9. Select **Advanced**, and then click **Customize**.

Mew Connection Security	Rule Wizard	×
Authentication Method		
Specify how authentication is p	erformed for connections that match this rule.	
Steps: a Rule Type b Endpoints a Requirements a Authentication Method b Protocal and Ports b Profile b Name	What authentication method would you like to use? Default Use the subhentication methods specified in IPsec settings. Restrict communications to corrections from doman-joined us Provide Venitity information for authencine specific users are reboard and autourd rules. Concuter (Mathema Vs) Restrict communications to corrections from domani-joined of dentity information for authencine specific occurs in tobust Basticit communications to corrections from domani-joined of dentity information for authencines from domani-joined of dentity information for authencines from domain-joined of	d computers in imputers. Provides
	Public • Advanced Specify custom first and second authentication settings. (Back	Castomice

10. In the **First authentication** section, click **Add**.

First authentication Specify computer authentication methods to use due negotiations. Those higher in the list are tried first.	ring IPsec	Second authentical Specify user auth to use during IPs	1999 C	ethods or a health ce ns. Those higher in t	rtificate he list are
First authentication methods		tried first. Second authentic			
Method Additional Information		Method	Addi	lional Information	
Add_ Edit Remove		Add_	Lán	Resove	
		Second auther		ptional at be specified when uthentication method	20

11. Select **Preshared Key** and enter the key, and then click **OK**.

lect the credential to use	for first authentication	n.	
Computer (Kerberos V5)			
Computer (NTLMv2)			
Computer certificate from t	this certification authority	(CA):	
Signing algorithms	RSA (default)		
Certificate store typ	Root CA (defauit)		
		Barren	
Accept only bealth o	sertificates:	Advanced.	
Enable certificate to	account mapping	Interesting and	
Preshared key inot recom	mended).		
ipsec			1
Prechared key authentic	Preshared keys are s	han other tored in is used, Second	

12. Click OK.

First authentication			Second authentica	tion	
Specify computer aut negotiations Those I	thentication methods to use during IF higher in the list are tried first.	Panc	Specify user auth to use during IPs tried first.	entication methods or a health cert ec negotiations. Those higher in th	tificate e list are
Eirst authentication r	nethods		Second authentic	ation methods:	
Method	Additional Information		Method	Additional Information	
Prechared key	ipsec				
					100
		_			10000
Add. I	EditRemove		Add.	Edit. Renova	
First authenticati	on is optional		Second autho	ntication is optional	
			A second authen	tication cannot be specified when a	
				in the first authentication methods	

13. Click Next.

14. Click Next.

a Rule Type	To which ports and protoc	ols does this rule apply?		
Endpoints	Protocol type	Anv	~	
Requirements	Protocol number:	0.0		
Authentication Method		All Ports		
Protocol and Ports	Endpoint 1 port	All Ports		
Profile		Example: 80, 445, 5000-501	10	
a Name	Endpoint 2 port	All Ports	×	
		Example: 80, 445, 5000-501	10	
		Example: 60, 440, 0000-001	10	

15. After confirming that all of the check boxes are selected, click Next.

Mew Connection Security	Rule Wizard	×
Profile		
Specify the profiles for which th	nis rule applies.	
Steps		
 Bule Type 	When does this rule apply?	
 Endpoints Requirements Authentication Method 	Domain Applies when a computer is connected to its corporate domain.	
Protocol and Ports	Private Applies when a computer is connected to a private network location, such as a	
Profile	home or work place.	
a Namo	Public Applies when a computer is connected to a public network location.	
	< Back Next> Cancel	

16. Enter a name, and then click **Finish**.

Mew Connection Security R	Rule Wizard	×
Name		
Specify the name and description	n of this rule.	
Steps		
Rule Type		
Endpoints		
Bequirements	Name	
a Authentication Method	New Connection Security	
Protocol and Ports		
a Profile	Description (optional)	-
a Name		
	C Back Finish	

17. Open the Local Security Policy of the Administrative Tools.



18. Select **Windows Firewall with Advanced Security**, right-click, and then select **Properties**.

Local Security Policy File Action View Help		- ¤ ×
Security Settings		A with Advanced Security provides network security for Windows comput
Methods & Manager Multi-Recent Methods & Manager Policies Software Restriction Policies Software Restriction Policies Software Restriction Policies Advanced Audit Policy Configure	Import Policy Export Policy Clear Policy Diagnose / Repair View > Refresh	No is not configured. No is not configured. No is not configured.
	Properties Help	perties
(Authenticate comm Create connection secur and protected by using 1 Connection Security View and create fit	

19. Select the IPsec Settings tab. Next, in the IPsec defaults section, click Customize.

Contraint 1 1 Contra	Private Profile	Public Profile	IPseo Settings	
IPsec det	aults			
	Specify settings establish secure			mize .
IPpec exe	amptions			
	simplify troubles		c requirements ca lwork connectivity	
100	issuns.			
	issues. <u>E</u> xempt ICMP fro	im IPsec	Not configured	~
			Not configured	×
IPsec tur	Exempt XOMP fro	s and comput	ers that are autho	v
IPsec tur	Exempt IOMP for nel authorization Specify the user to establish IPse	s and comput	ers that are autho	

20. In the **Key exchange (Main Mode)** section, select **Advanced**, and then click **Customize**.

Customize IPsec Defaults	
IPsec will use these settings to establish set when there are active connection security rul	
When you use the default options, any settine higher precedence are used.	ts in a GPO with a
Key exchange (Main Mode)	
O Default (recommended)	
Advanced	Qustomize_
Data protection (Quick Mode)	
O Default (recommended)	
Adyanced	Customize_
Authentication method	
O Computer and user (Kerberos V5)	
O Computer (Kerberos V5)	
O Liser (Kerberos V5)	
Advagced	Customize.

21. Change the **Security Methods** as required, and then click **OK**.

ecurity meth	Contraction of the second		
	ing security methods in the list are tried fin		
Security metho	oda:		
Integrity	Encryption	Key exchange algorit	hm
SHA-1	AES-CBC 1	Diffie-Hellman Group	2 (default)
SHA-1	3DES	Diffie-Hellman Group	2
			14
Add.	Edit	Bendun	
ey lifetimes			Key exchange options
specify when oth options, inst threshold	a new key is gene	rated. If you select rated when the	Lise Diffie-Hellman for enhanced security
			Compatible with Windows Vista and later.
Minutes:		480 -	
		0 0	
Sessions			

22. In the **Data protection (Quick Mode)** section, select **Advanced**, and then click **Customize**.

Customize IPsec Defaults			×
IPsec will use these settings to establish when there are active connection security	secured rules.	connections	
When you use the default options, any set higher precedence are used.	tines in	a GPO with a	
Key exchange (Main Mode)			
O Default (recommended)			
Advanced		Qustomize_	
Data protection (Quick Mode)			
O Default (recommended)			
Adganced		Customize_	
Authentication method			
Computer and user (Kerberos V5)			
Computer (Kerberos V5)			
O Liser (Kerberos V5)			
Advagced		Customize.	
	OK	Gancel	
	UK	Gancer	

23. Configure the settings you want, and then click **OK**.

Nata integri Protect da integrity al first.	ty ta from modif gorithms. The	all connection security rules that lication on the network with these see higher in the list are tried	use thes	Data integrit Protect dat the network Those high	a from mod with these er in the list	fication and pr integrity and t are tried first		. 01
Protocol ESP AH	integrity SHA-1 SHA-1	a: Key Lifetime (minutes/KD) 60/100,000 80/100,000		Protocol ESP ESP	Integrity SHA-1 SHA-1 SHA-1	yption algorith Encryption AES-CBC 3DES	ms: Key Lifetime (m. 60/100,000 60/100,000	and and
Add	Edi	t		Agid	Ed	Re Re	gióne	

Note: Support is provided only for time indicated by the key lifetime. To disable session-specific (IPsec communication data size) conditions, set the maximum value.

24. In the Authentication method section, select Advanced, and then click Customize.

Phone will use those settings to establish security rules when there are active connection security rules when you use the default potion. any settines have precedence are used. Key exchange (Man Mode) O Default (recommended) (© Granced	in a GPO with a
hipher precedence are used. Key exchange (Main Mode) O Default (recommended)	
O Default (recommended)	
Advanced	
	Qustomize_
Data protection (Quick Mode)	
O Default (recommended)	
Advanced	Customize_
Authentication method	
O Default	
O Computer and user (Kerberos V5)	
Computer (Kerberos V6)	
O User (Kerberos V5)	
Advagced	Customize.

25. In the First authentication section, click Add.

irst authentication Specify computer authentication methods to use during IPsec negotiations. Those higher in the list are tried first.	Second authentication Specify user authentication methods or a health certificate to use during IPsoc negotiations. Those higher in the list are tried first.
Eirst authentication methods:	Second authentication methods:
Method Additional Information Prechanel key gose	Method Additional Information
Add_ Edit. Persove	Add. Edit. Report
First authentication is optional	Second authentication is optional A second authentication cannot be specified when a preshared key is in the first authentication methods list.

26. Select **Preshared Key** and enter the key, and then click **OK**.



27. Click OK.

first authentication Specify computer authentication methods to use du	ring IParc	Second authentica Specify user auth	tion entication methods or a health cer	rtificate
negotiations. Those higher in the list are tried first		to use during IPs tried first.	ec negotiations. Those higher in th	he list are
Eirst authentication methods:		Second authentic	ation methods:	
Method Additional Information	1	Method	Additional Information	
Preshared key ipsec	-			
				1
		-	and a second sec	
Add_ Edit. Remove				
AddEditEmerged		and the second s	Edit. Remove ntication is optional	

28. Click OK to exit Customize IPsec Settings.





Controlling Access by IP Address (IP Filter)

Access to the printer can be managed using IP addresses.

Note: IP Filtering is set to Disable under the printer initial default settings.

Note: Take care to enter the IP address correctly. An incorrectly entered IP address can make it impossible to access the printer using IP protocol.

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click in the following sequence: Admin Setup > Network Setup > Security.

QuickLabel QL-30		
iew Information Print Information	Printer Menu Admin Setup C	alibration Links
Admin Setup	Protocol	
ONetwork Setup	TCP/IP	Enable
General Network Settings	NetBIOS over TCP	Enable +
O TCP/IP		
O NBT	Service	
@ Email	Web (Port No. 1 80)	Enable - If "Disable", you can not access from your Web browser, and, you can not print with WSD-port.
⊕ SNMP	IPP (Port No. : 631)	Enable -
⊕ IPP	Telnet	Disable 🔻
O IEEE802.1X	FTP	Disable 🔻
O Security	SNMP	Enable -
Protocol ON/OFF	SNTP	Disable 👻
O IP Filtering	Local Ports	Enable -
O MAC Address Filtering		
O SSL/TLS	Port Number	5. 1939. Phil
O IPSec	You can not set port num	ber that is already used.
O Change Network	Web	80 (1-65535)
Password	SMTP	25 (1-65535)
Maintenance		
Print Setup		
PS Setup		
PCL Setup		
) Color Setup		
Management		

3. Click IP Filtering.

liew Information Print Information	Printer Me	nu Admin Setup 9	Calibration Links			
Admin Setup	IP Filte	rina				
Network Setup	and the second second	Select IP Filter	ng Settings.			
General Network Settings	IP Filte	ring	Disable •			
O TCP/IP				ou set IP Filtering to Er		
O NBT			in STEP2.	nter only from hosts at	IP Address	es set
@ Email	errea	Set IP Address				
B SNMP				permissions to print to	or copies	mo the
1 IPP	printer.					ure the
O IEEE802.1X		s can be given to		0.0.0 is an invalid addr when overlapping rai		dresse
	are use	u.				
O Security	CONTRO	NH11				
Security O Protocol ON/OFF	(CAUTIC When d		g"is not marked, you	can not print with WSD	-port.	
a second s	When d	heckbox of "Confi		can not print with WSD I configuration settings		tion.
C Protocol ON/OFF	When d	heckbox of "Confi P Address, if set i Address Range	n STEP 3, overrides a IP Add	I configuration settings ress Range		1
© Protocol ON/OFF © IP Filtering	When d Admin I Priority	heckbox of "Confi P Address, if set i Address Range No.	n STEP 3, overrides al IP Add Start Address	I configuration settings ress Range End Address	in this sed	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS	When d	heckbox of "Confi P Address, if set in Address Range No. 1	n STEP 3, overrides a IP Add Start Address 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0	in this sed	1
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS © IPSec	When d Admin I Priority	heckbox of "Confi P Address, if set i Address Range No.	n STEP 3, overrides al IP Add Start Address	I configuration settings ress Range End Address	in this sed	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS	When d Admin I Priority	heckbox of "Confi P Address, if set in Address Range No. 1	n STEP 3, overrides a IP Add Start Address 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0	in this sed	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS © IPSec © Change Network	When d Admin I Priority	heckbox of "Confi P Address, if set in Address Range No. 1 2	n STEP 3, overrides a IP Add Start Address 0.0.0.0 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0 0.0.0.0	in this sed Printing	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS © IPSec © Change Network Password ® Maintenance	When d Admin I Priority	heckbox of "Confi P Address, if set i Address Range No. 1 2 3	n STEP 3, overrides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0 0.0.0.0 0.0.0.0	In this sector	Config
Protocol ON/OFF P Fittering AC Address Filtering SSL/LS PSec Change Network Password Maintenance Print Setup	When d Admin I Priority	heckbox of "Confi P Address, if set in Address Range No. 1 2 3 4	n STEP 3, overnides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	I configuration settings ress Range 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	In this sector	Config
Protocol ON/OFF Protocol ON/OFF Protocol ON/OFF Acc Address Filtering SSL/TLS Prose Change Network Password Maintenance Print Setup DS Setup	When d Admin I Priority	heckbox of "Confi P Address, if set i Address Range No. 1 2 3 4 5	n STEP 3, overrides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Loorfiguration settings ress Range End Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	in this sed Printing	
© Protocol ON/OFF © IP Fittering © MAC Address Filtering © SSL/TLS © IPSec © Change Network Password	When d Admin I Priority	heckbox of "Confi P Address, if set i Address Range No. 1 2 3 4 5 6	n STEP 3, overrides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Configuration settings End Address 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	in this sed Printing	

4. Under **STEP1**, select **Enable** for **IP Filtering**.

View Information Print Information	Printer Me	enu Admin Setup 9	Calibration Links			
Admin Setup	IP Filte	ring				
Network Setup	STEP1.	Select IP Filter	ing Settings.			
General Network Settings	IP Filte	ring	Enable •			
O TCP/IP				ou set IP Filtering to Er		
O NBT			in STEP2.	nter only from hosts at	IP Address	es set
@ Email	STEP2.	Set IP Address	range. 😵			
⊕ SNMP ■		ne ranges of the h	ost IP Addresses and	permissions to print to	o, or configu	are the
(1) IPP				0.0.0 is an invalid addr		
O IEEE802.1X			determine precedence	e when overlapping rai	nges of add	fresse
	are use	d.		en meneral a construction of the second s		
O Security						
© Security © Protocol ON/OFF	(CAUTIO	DNII)	g"is not marked, you	can not print with WSD	-port.	
1	(CAUTIC When d	DNII) heckbox of "Confi		can not print with WSD I configuration settings		tion.
C Protocol ON/OFF	(CAUTIC When d	DNII) heckbox of "Confi P Address, if set i Address Range	n STEP 3, overrides a IP Add	l configuration settings ress Range		
© Protocol ON/OFF © IP Filtering	(CAUTIC When d Admin I Priority	DNII) heckbox of "Confi P Address, if set i Address Range No.	n STEP 3, overrides al IP Add Start Address	I configuration settings ress Range End Address	in this sec Printing	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS	(CAUTIC When d	DNII) heckbox of "Confi P Address, if set in Address Range No. 1	n STEP 3, overrides a IP Add Start Address 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0	n this sect	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS © IPSec	(CAUTIC When d Admin I Priority	DNII) heckbox of "Confi P Address, if set i Address Range No.	n STEP 3, overrides al IP Add Start Address	I configuration settings ress Range End Address	in this sec Printing	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS	(CAUTIC When d Admin I Priority	DNII) heckbox of "Confi P Address, if set in Address Range No. 1	n STEP 3, overrides a IP Add Start Address 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0	n this sect	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS © IPSec © Change Network	(CAUTIC When d Admin I Priority	DNII) heckbox of "Confi P Address, if set i Address Range No. 1 2	n STEP 3, overrides a IP Add Start Address 0.0.0.0 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0 0.0.0.0	Printing	Config
© Protocol ON/OFF © IP Filtering © MAC Address Filtering © SSL/TLS © IPSec © Change Network Password ® Maintenance	(CAUTIC When d Admin I Priority	DNII) heckbox of "Confi P Address, if set i Address Range No. 1 2 3	STEP 3, overrides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0	I configuration settings ress Range 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Printing	Config Config
Protocol ON/OFF Pritering MAC Address Filtering SSL/TLS Pisec Change Network Password Maintenance Print Setup	(CAUTIC When d Admin I Priority	DNII) heckbox of "Confi P Address, if set ii Address Range No. 1 2 3 4	n STEP 3, overrides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	I configuration settings ress Range 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Printing	Config
Protocol ON/OFF Protocol ON/OFF Acc Address Filtering SSL/ILS Change Network Password Maintenance Print Setup SStup	(CAUTIC When d Admin I Priority	NII) heckbox of "Confi Address, if set i Address Range No. 1 2 3 4 5	n STEP 3, overrides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Printing	
O Protocol ON/OFF O IP Filtering O MAC Address Filtering O SSL/TLS O IPSec O Change Network Password	(CAUTIC When d Admin I Priority	NII) heckbox of "Confi Address, if set ii Address Range No. 1 2 3 4 5 6	n STEP 3, overrides al IP Add Start Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	I configuration settings ress Range End Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Printing	

Note: Enabling IP filtering disables all access from hosts that are outside the range of IP addresses specified in STEP2.

- 5. Under **STEP2**, specify the IP address range.
 - Using IP addresses, enter the range of hosts that are allowed to print and configure settings.
 - For the IP addresses, use single-byte numerals separated by periods (.).
 - Entry of IP address 0.0.0.0. is invalid.
 - When there is overlap of IP addresses, the address range with the highest level set in Priority is given priority.
 - Regardless of what is specified in **STEP2**, you can use **STEP3** to specify administrator addresses for which printing and setting configuration are enabled.

Admin Setup		Address Range	IP Add	Drinting	Canto	
3 Network Setup	Priority	No.	Start Address	End Address	Printing	Config
General Network Settings	Low	1	0.0.0.0	0.0.0.0	121	- 123
O TCP/IP		2	0.0.0.0	0.0.0.0		10
ONBT		3	0.0.0.0	0.0.0	1	1
@ Email		4	0.0.0.0	0.0.0.0	E	12
@ SNMP		5	0.0.0.0	0.0.0.0	1	13
		6	0.0.0.0	0.0.0.0		0
IPP (7	0.0.0.0	0.0.0.0		E
O IEEE802.1X		8	0.0.0.0	0.0.0.0	123	- 123
O Security		9	0.0.0.0	0.0.0.0		10
Protocol ON/OFF	High	10	0.0.0.0	0.0.0.0		0
O IP Filtering	Addre	ee Dange Bar	Display/Refresh		Hide	
MAC Address Filtering SSL/TLS IPSec Change Network Password	Printing Enable Enable Disable	Config Color	nge Bar Color relation			
Maintenance ■ Maintenance ■	STEP3.	Save Administr	ator IP Address.			
0 Print Setup 0 PS Setup 0 PCL Setup	object f Only on If a pro	or configuration s e IP Address can	et in STEP2. be registered as adm ss this printer, the pr	ch takes priority over a inistrator IP Address. oxy address will appear		
Color Setup		o not wish to reg setting" field bla		's IP Address, leave "Ad	Iministrato	r's IP

6. Click Address Range Bar Display/Refresh.

If you want to modify an IP address range, re-enter the applicable IP addresses, and click **Address Range Bar Display/Refresh** again.

7. Under STEP3, specify the Administrator's IP Address setting.

Even if the wrong settings are configured in **STEP2** due to administrator IP address entry in **Administrator's IP Address setting**, the administrator can re-configure the setting from a host with the IP address specified with **Administrator's IP Address setting**.

- If the printer is being accessed via a proxy, the intermediate device's address will be displayed as Your Current Local Host/Proxy IP Address. Consequently, the address shown by Your Host IP Address may be different from your actual host address.
- If nothing is registered for the administrator IP address, the setting in **STEP2** may make the printer completely inaccessible.
- If you do not want to register an administrator IP address, leave Administrator's IP Address setting blank.
- 8. Click Submit.
- 9. Settings are saved on the printer and the network function is restarted.

Controlling Access by MAC Address

Access to the printer can be managed using MAC addresses.

Note: Incorrectly entering a MAC address can make it impossible to access the printer using a network. Exercise caution when entering an address.

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click in the following sequence: Admin Setup > Network Setup > Security.

ew Information Print Information	Printer Menu Admin Setup C	alibration Lin	iks
Admin Setup	Protocol		
ONetwork Setup	TCP/IP	Enabl	e
General Network Settings	NetBIOS over TCP	Enab	le 👻
O TCP/IP			
O NBT	Service		
@ Email	Web (Port No. 1 80)	If "Dis	Ile • sable", you can not access from your Web browser. you can not print with WSD-port.
⊕ SNMP	IPP (Port No. : 631)	Enab	le 👻
⊕ IPP	Teinet	Disat	ble 🔹
O IEEE802.1X	FTP	Disat	ble 🔻
O Security	SNMP	Enab	ile 👻
Protocol ON/OFF	SNTP	Disat	ble 👻
O IP Filtering	Local Ports	Enab	de -
O MAC Address Filtering		1,55,84	
O SSL/TLS	Port Number		
O IPSec	You can not set port num	ber that is a	already used.
O Change Network	Web	80	(1-65535)
Password	SMTP	25	(1-65535)
Maintenance			
Print Setup			
PS Setup			
PCL Setup			
Color Setup			
Management			

3. Click MAC Address Filtering.

🕈 Admin Setup	MACA	address Filtering					
Network Setup		. Select MAC Address	Filtering Se	ettinas			
General Network Settings			Disable	*			
O TCP/IP	MAC A	ddress Filtering		UTION!! If you set MAC Address Filtering to Enab			
O NBT			you will only be able to access the printer from dev with MAC Addresses set in STEP2 and STEP3.				
@ Email	STEP2	. Set Filtering MAC Ad	dress				
() SNMP		unication from the ing MAC Addresses	Accept	•			
(1) IPP		MAC Address			MAC Address		
O IEEE802.1X	1	00:00:00:00:00:00		26	00:00:00:00:00:00		
O Security	2	00:00:00:00:00:00	F	27	00:00:00:00:00:00		
Protocol ON/OFF	3	00:00:00:00:00:00		28	00:00:00:00:00:00		
IP Filtering	4	00:00:00:00:00:00		29	00:00:00:00:00:00		
MAC Address Filtering	5	00:00:00:00:00:00	E III	30	00:00:00:00:00		
O SSL/TLS	6	00:00:00:00:00:00		31	00:00:00:00:00:00		
O IPSec	7	00:00:00:00:00:00		32	00:00:00:00:00		
O Change Network	8	00:00:00:00:00:00		33	00:00:00:00:00		
Password	9	00:00:00:00:00:00	F	34	00:00:00:00:00:00		
Maintenance	10	00:00:00:00:00:00		35	00:00:00:00:00:00		
9 Print Setup	11	00:00:00:00:00:00		36	00:00:00:00:00		
D PS Setup	12	00:00:00:00:00:00	E C	37	00:00:00:00:00:00		
D PCL Setup	13	00:00:00:00:00:00		38	00:00:00:00:00		
🗆 Color Setup	14	00:00:00:00:00:00		39	00:00:00:00:00:00		
() Management	15	00-00-00-00-00-00		40	00-00-00-00-00-00		

4. Under STEP1, select Enable for MAC Address Filtering.

Admin Setup	MACA	ddress Filtering			
O Network Setup		Select MAC Address	Filtering Sett	inas	
General Network Settings	MAC Address Filtering		Enable *		
O TCP/IP O NBT			CAUTION! If you set MAC Address Filtering to Enal you will only be able to access the printer from dev with MAC Addresses set in STEP2 and STEP3.		
@ Email	STEP2	. Set Filtering MAC Ad	dress		
@ SNMP		unication from the ing MAC Addresses	Accept -		
⊕ IPP		MAC Address			MAC Address
O IEEE802.1X	1	00:00:00:00:00:00	• 1 1	26	00:00:00:00:00
O Security	2	00:00:00:00:00:00		27	00:00:00:00:00
Protocol ON/OFF	3	00:00:00:00:00:00		28	00:00:00:00:00
O IP Filtering	4	00:00:00:00:00:00		29	00:00:00:00:00
MAC Address Filtering	5	00:00:00:00:00:00	E C	30	00:00:00:00:00
O SSL/TLS	6	00:00:00:00:00:00		31	00:00:00:00:00
O IPSec	7	00:00:00:00:00:00		32	00:00:00:00:00
O Change Network	8	00:00:00:00:00:00		33	00:00:00:00:00
Password	9	00:00:00:00:00:00		34	00:00:00:00:00
Maintenance	10	00:00:00:00:00:00		35	00:00:00:00:00
9 Print Setup	11	00:00:00:00:00:00		36	00:00:00:00:00
D PS Setup	12	00:00:00:00:00:00		37	00:00:00:00:00
D PCL Setup	13	00:00:00:00:00:00		38	00:00:00:00:00
🗅 Color Setup	14	00:00:00:00:00:00		39	00:00:00:00:00
Ti Management	15	00-00-00-00-00-00		40	00-00-00-00-00-00

5. Under **STEP2**, You can select **Accept** or **Deny** for communication from specific MAC addresses.

Admin Setup	MACA	ddress Filtering			
Network Setup		Select MAC Address	Filtering Setti	nas	
O General Network Settings			Enable *		
O TCP/IP		ddress Filtering			MAC Address Filtering to Enabl
O NBT					to access the printer from devic set in STEP2 and STEP3.
@ Email	STEP2	Set Filtering MAC Ad	dress		
(B SNMP		inication from the mg MAC Addresses	Accept		
1 IPP		MAC Address	Deny		MAC Address
O IEEE802.1X	1	00:00:00:00:00:00		26	00:00:00:00:00
O Security	2	00:00:00:00:00:00		27	00:00:00:00:00:00
O Protocol ON/OFF	3	00:00:00:00:00:00		28	00:00:00:00:00
O IP Filtering	4	00:00:00:00:00:00		29	00:00:00:00:00
MAC Address Filtering	5	00:00:00:00:00:00		30	00:00:00:00:00
O SSL/TLS	6	00:00:00:00:00:00		31	00:00:00:00:00
O IPSec	7	00:00:00:00:00:00		32	00:00:00:00:00
O Change Network	8	00:00:00:00:00:00		33	00:00:00:00:00
Password	9	00:00:00:00:00:00		34	00:00:00:00:00
Maintenance	10	00:00:00:00:00:00		35	00:00:00:00:00
Print Setup	11	00:00:00:00:00:00		36	00:00:00:00:00
PS Setup	12	00:00:00:00:00:00		37	00:00:00:00:00:00
PCL Setup	13	00:00:00:00:00:00		38	00:00:00:00:00
Color Setup	14	00:00:00:00:00:00		39	00:00:00:00:00:00

- Using MAC addresses, enter the range of hosts whose communications are allowed or rejected.
- For the MAC addresses, use single-byte numerals separated by periods (.).
- Regardless of what is specified in **STEP2**, you can use **STEP3** to specify administrator addresses for which communication is enabled.



6. Under STEP3, specify the Administrator's MAC Address setting.

Even if the wrong settings are configured in **STEP2** due to administrator MAC address entry in **Administrator's MAC Address setting**, the administrator can re-configure the setting from a host with the MAC address specified with **Administrator's MAC Address setting**.

- If the printer is being accessed via a proxy, the intermediate device's address will be displayed as **Your Host MAC Address**. Consequently, the address shown by **Your Host MAC Address** may be different from your actual host address.
- If nothing is registered for the administrator MAC address, the setting in **STEP2** may make the printer completely inaccessible.
- If you do not want to register an administrator MAC address, specify 00:00:00:00:00:00 for Administrator's MAC Address setting.
- 7. Click **Submit**.
- 8. Settings are saved on the printer and the network function is restarted.

Sending Error Notifications by Mail

The printer comes with a mail sending function (SMTP) built-in. It can be configured to send a mail message whenever an error occurs. You can select whether to send a periodic mail message about errors, or to send a mail message as soon as an error occurs.

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click: Admin Setup > Network Setup.

Admin Setup	Protocol Options	
Network Setup	TCP/IP	Enable
General Network Settings	NetBIOS over TCP	Enable -
O TCP/IP		
O NBT	Hub Link	to de enciente de crea
@ Email	Hub Link Status	OK(100Base-TX Full)
	Gigabit Network	Disable 🔻
@ SNMP	Hub Link Setting	Auto Negotiate 👻
(1) IPP		
O IEEE802.1X	Energy Efficient Ethernet	
Security	Energy Efficient Ethernet	Enable -
Maintenance		
Print Setup		
PS Setup		
PCL Setup		
Color Setup		
Management		

3. Click: **Email > Send Settings**.

New Information Print Information Admin Setup	Printer mene (Normal Second 1 Sec	HALGHAN I LINKS				
	Email Send Settings					
Network Setup	STEP1. SMTP send setting	15				
General Network Settings	Set the protocol for the pri	nter to send Email.				
O TCP/IP	If Disable is selected, skip the rest of the STEPs.					
O NBT	SMTP Send	Disable -				
OEmail	STEP2. Send Address Settings					
Send Settings	Set the SMTP Server Addre	ss where the printer will send Email.				
O Alert Settings	SMTP Server	Enter Email Server. (Max. (4 characters)				
I SNMP	Send Test	Test				
@ IPP	Set the sender Address (th	is printer's Address).				
IEEE802.1X Security	Printer Email Address	May be required to validate Email transmissions. (Max.64 characters)				
⊕ Maintenance						
🖸 Print Setup						
D PS Setup						
O PCL Setup						
🖸 Color Setup						
Management						

4. Under **STEP1**, select **Enable** for **SMTP Send**.



- 5. Under STEP2, specify the required addresses.
 - a. For SMTP Server, specify the mail server domain name or IP address.
 - b. For Printer Email Address, specify the mail address assigned to the printer.
 - To configure SMTP server settings with a domain name, you need to configure DNS server settings with the **TCP/IP** setup.
 - The mail server needs to be configured to allow the printer to send mail. For information about mail server settings, consult with your network administrator.
 - Internet Explorer 7 configured with its initial default setup will not perform a send test.

To perform a send test, you need to change the setup of Internet Explorer 7.

Select **Tools > Security Level Customization**, and then enable **Allow websites to prompt for information using scripted windows**.

6. To configure more advanced settings from this point, click **Set detail of the SMTP Protocol.** for **STEP3**.



Otherwise, jump to step 16 of this procedure.

7. Click Security Settings.

Set security of the SMTP F	Protocol. 📴
SMTP Port Number	25 (1-65535)
SMTP-Auth	Disable V

- 8. For SMTP Port Number, specify the mail server port number.
- 9. Select Enable for SMTP-Auth.
 - a. For User ID, specify the user ID for connection to the mail server.
 - b. For **Password**, specify the password for connection to the mail server.
- 10. Click **OK**.
- 11. Click Configure attached information.

Printer Model		QuickLabel QL-300s
V Network Interface	4	OkiLAN 9400g
👿 Serial Number		BETA200003
C Asset Number		
🔄 Printer Name	1	QuidtLabelQL-300s-91F5F9
Printer Location	3	
IP Address	3	172.16.2.236
MAC Address	4	00253691F5F9
Short Printer Name		QL-300s-91F5F9
Printer URL	1	http://172.16.2.236
ment (Max.63 characte	rs per li	ne)

- 12. Select or enter the information you want to add to the end of the message text.
- 13. Click **OK**.
- 14. Click Others.
- 15. For **Reply-To Address**, specify the return address for the mail sent from the printer. Normally, specify the mail address of the printer administrator.

Others		
Set the address	to send the e	rror notification Email to, in case of transmission error.
Reply-To Add	ress	(Max.78 characters)
OK	Cancel	

- 16. Click OK.
- 17. Click Submit.
- 18. Settings are saved on the printer and the network function is restarted.

Note: The authentication method is automatically selected from among authentication methods supported by the mail server.

Sending Error Notifications by Periodic Mail

For periodic notification, disable the sleep mode setting.

To send periodic notifications about problems

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click: Admin Setup > Network Setup.



3. Click: **Email > Alert Settings**.

/iew Information Print Information	Printer Menu Adm	in Setup	Calibration Links				
🛛 Admin Setup	Alert Setting	10					
Network Setup	and the second sec		rinter to send Em	all alerte for uar			
General Network Settings O TCP/IP		tings mu			Receive Settings have n		
O ICP/IP	Setting Events Used for Sending Email Alerts						
O NBT	You can set up to five addresses to which Email messages are sent upon prin						
OEmail	status changes	•					
O Send Settings	Address1:				etting Copy		
Alert Settings	Address2:			s	etting Copy		
@ SNMP	Address3:			5	etting Copy		
@ IPP	Address4:			3	etting Copy		
O IEEE802.1X	Address5:			3	etting Copy		
Security	(Max.78 characte	rs)Exemp	leijsmith@abc_co.co	im .			
@ Securicy	View a summa	ry of cu	rent events and	enabled Email al	erts		
Maintenance	View a Summa	ry of Curr	ent Configuration				
Print Setup	The selections	below all	ow custom event	s to be set for the	e 5 addresses above.		
O PS Setup			Default •	Address1 -			
			ooroune				
PCL Setup	Condition	Alert	Default Upon occurrence	Address1	Description		
🖸 Color Setup		Level	of an event	of an event			
	Consumable	Warning	Immediate	Immediate	Toner, Image Drums		
Management		Error	Immediate 2Hours after	Immediate 2Hours after			
	Maintenance Unit	Error	Immediate	Immediate	Belt Unit, Fuser Unit		
	10000	Warning	15Minutes after	13Minutes after			
	Paper Supply	Error	Immediate	Immediate	Paper, Transparencies		
	Libert en alternet	Warning	Disable	Disable			
	Printing Paper	Error	2Hours after	2Hours after	Cover Open, Paper Jam		
	Storage Device	Warning	Disable	Dizable			

4. Enter the mail address of the malfunction notification recipient.

Admin Setup	1.2.		Calibration Links		
Network Setup	Alert Setting	•			
SHEWORK SELUP	You can configu	ure this p	rinter to send Em	ail alerts for var.	
General Network Settings TCP/IP	Email Send Set affect on this s		st be configured t	o use this service	(Receive Settings have no
O TCP/IP	Setting Events	Used for	r Sending Email	Alerts	
O NBT	You can set up	to five a	ddresses to which	Email messages	are sent upon printer
OEmail	status changes				
O Send Settings	Address1:	user@a	aabbb	5	etting Copy
Alert Settings	Address2:			S	etting Copy
@ SNMP	Address3:			5	etting Copy
() IPP	Address4:	C		3	etting Copy
O IEEE802.1X	Address5:			5	etting Copy
Gecurity	(Max.78 sharaste	ers)Exampl	leijsmith@abc_co.co	um .	
	View a summa	ry of cur	rent events and	enabled Email al	erts
Maintenance	View a Summa	ry of Curr	ent Configuration		
Print Setup	The selections	below all	ow custom event	s to be set for the	5 addresses above.
PS Setup			Default -	Address1 -	
PCL Setup			Default	Address1	
Color Setup	Condition	Alert	Upon occurrence of an event	Upon occurrence of an event	Description
	Consumable	Warning	Immediate	Immediate	Toner, Image Drums
Management		Error	Immediate	Immediate	
	Maintenance	Warning	2Hours after Immediate	2Hours after Immediate	Belt Unit, Fuser Unit
	Unit	Warning	Immediate ISMinutes after	Immediate 15Minutes after	5. 1985 5852 - 19
	Paper Supply	Error	Iominutes after	Immediate	Paper, Transparencies
		Warning	Disable	Disable	
	Printing Paper		2Hours after	2Hours after	Cover Open, Paper Jam
		Error			

5. Click **Setting** of the mail address you want to specify.

Malfunction notification condition settings can be copied to another addressee by clicking **Copy**. This is useful when sending malfunction notifications to multiple recipients with similar mail addresses.

6. Select the **Periodically** check box, and then click **To STEP2**.



7. For Email Alert Interval, specify the mail send interval.



Mail is not sent if there are no reportable errors within the period.

- 8. Under Setting Events Used for Sending Email Alerts, select the check boxes of the error types for you to be notified of.
- 9. Click **OK**.
- 10. Check the configuration of the malfunction notification conditions.
 - To display as a list, click **Show current settings table**. Check the configuration, and then close the window.
 - To compare the setting conditions of two recipients, use the list box to select each
 of the recipients you want to compare. Check the displayed configuration.

You can change notification condition settings by clicking inside the setting condition comparison table.

- 11. Click **Submit**.
- 12. Settings are saved on the printer and the network function is restarted.

To send alerts when problems occur

1. Click: **Email > Alert Settings**.

View Information Print Information	Printer Menu 17401	nin Setup	Calibration Links				
Admin Setup	Alert Setting	83.					
Network Setup	You can configure this printer to send Email alerts for var.						
O General Network Settings	Email Send Settings must be configured to use this service (Receive Settings have no						
O TCP/IP	affect on this s	ervice).					
	Setting Events	Setting Events Used for Sending Email Alerts					
O NBT			ddresses to which	Email messages	are sent upon printer		
OEmail	status changes	i.					
O Send Settings	Address1:			Se	tting Copy		
Alert Settings	Address2:			Se	tting Copy		
(B SNMP	Address3:	tting Copy					
() IPP	Address4:	ting Copy					
O IEEE802.1X	Address5:	tting Copy					
Security	(Max.78 characters)Example.jsmith@abc_co.com						
@ Securicy	View a summary of current events and enabled Email alerts View a Summary of Current Configuration						
Maintenance							
D Print Setup				s to be set for the	5 addresses above.		
D PS Setup	THE DEPENDING		Default -	Address1 -	o our costa oporte:		
D PS Setup			oordare				
3 PCL Setup	Condition	Alert	Default	Address1	Description		
Color Setup	Constition	Level	Upon occurrence of an event	Upon occurrence of an event	Description		
	Consumable	Warning	Immediate	Immediate	Toner, Image Drums		
Management		Error	Immediate	Immediate			
	Maintenance	Warning	2Hours after Immediate	2Hours after Immediate	Belt Unit, Fuser Unit		
	Unit	Error	Immediate ISMinutes after	Immediate ISMinutes after	1045 5472 N		
	Paper Supply	Error	Iominutes after	Immediate	Paper, Transparencies		
		Warning	Disable	Disable			
	Printing Paper	Error	2Hours after	2Hours after	Cover Open, Paper Jam		
	-						
	Storage Device.	Warning	Disable	Disable			

2. Enter the mail address of the malfunction notification recipient.

New Information Print Information	Printer Menu Adr	nin Setup	Calibration Links				
Admin Setup							
Network Setup	Alert Setting	s -					
Swetwork Setup	You can configure this printer to send Email alerts for var.						
General Network Settings	Email Send Settings must be configured to use this service (Receive Settings have no affect on this service).						
O TCP/IP	Setting Events	Used for	r Sending Email	Alerts			
O NBT	You can set up	to five a	dresses to which	Email message	s are sent upon printer		
OEmail	status changes			n chinan message.	vere sere aport printer		
O Send Settings	Address1:	user@a	aabbb		Setting Copy		
O Alert Settings	Address2:	10000000			Setting Copy		
(F) SNMP	Address3:	-			Setting Copy		
	Address4:				Setting Copy		
@ IPP	Hudresser.						
O IEEE802.1X	Address5:				etting Copy		
Security	(Max.78 characters)Example.jsmith@abc_co.com						
e securicy	View a summary of current events and enabled Email alerts View a Summary of Current Configuration The selections below allow cistom events to be set for the 5 addresses above.						
Maintenance							
D Print Setup							
	1110 0000000000	octon an			e o oboreo oporei		
D PS Setup			Default 🝷	Address1 -			
D PCL Setup	Condition	Alert	Default	Address1			
Color Setup	Condition	Level	Upon occurrence of an event	Upon occurrence of an event	Description		
	Consumable	Warning	Immediate	Immediate			
B Management	Consumable	Error	Immediate	Immediate	Toner, Image Drums		
	Maintenance	Warning	2Hours after	2Hours after	Belt Unit, Fuser Unit		
	Unit	Error	Immediate	Immediate	2010 Story - See 50105		
			15Minutes after	15Minutes after	Paper, Transparencies		
	Paper Supply	Warning					
	Paper Supply	Error	Immediate	Immediate	Papar, manaparancias		
	Paper Supply Printing Paper	Error Warning	Immediate Disable	Disable	Cover Open, Paper Jam		
		Error	Immediate				

3. Click **Setting** of the mail address you want to specify.

Malfunction notification condition settings can be copied to another addressee by clicking **Copy**. This is useful when sending malfunction notifications to multiple recipients with similar mail addresses.

4. Select the **Upon occurrence of an event** check box, and then click **To STEP2**.



5. Under **Setting Events Used for Sending Email Alerts**, select the check boxes of the error types for you to be notified of.

ting Events Use			
k the checkbox(e	s) beside	ever	nt(s) to be included in Email alerts.
marked event(s) a	are not inc	dude	d in Email alerts.
Condition			Description
Consumable	Warning	¥	Included in Email alerts for a printer when the printer has reported a warning or error about its consumables such as
Consumable	Error		image drums or toner cartridges . Example:Drum Life Warning.Drum Life Error
Maintenance Unit	Warning	•	Included in Email alerts for a printer when the printer has reported a warning or error about its maintenance units suc
Contraction of the	Error	•	as fuser or belt unit. Example:Fuser Life Warning;Fuser Life Error
Paper Supply	Warning	V	Included in Limail alerts for a printer when the printer has reported a warning or error about pages that can still be
Paper Supply	Error		printed on it. Example:Paper Out Warning.Paper Out
Printing Paper	Warning		Included in Email alerts for a printer when the printer has reported a warning or error about its printing paper.
success experi-	Error		Example:Size Mismatch, Paper Feed Jam
Storage Device	Warning		Included in Email alerts for a printer when the printer has reported a warning about flash memory. Example:Mass Storage Error
Print Result	Warning		Included in Email alerts for a printer when the printer has reported a warning or error about its print result.
Print, Mesun,	Error		Example:Invalid Data, Memory Over Flow
Interface	Warning		Included in Email alerts for a printer when the printer has preported a warning or error about its interfaces.
anter Table	Error	•	Example:USB Hub Unsupported
Security	Warning		Included in Email alerts for a printer when the printer has reported a warning or error about its security. Example: Invalid Secure Data
Other	Error		Included in Email alerts for a printer when the printer has issued a service call.

6. Specify the delay after an error occurs until the message is sent, and then click **OK**.

Detail (C	onsumable Error)	
You can co	nfigure parameters used for sen	ding Email alerts.
(the time e	entered in "Hours" field is any po	sitive integer value of 0 to 48)
	Setting time	
	lours 0 Minutes + of OHour and OMinute, Email is sent 	
ОК	Close	

- Setting a delay time makes it possible to send notifications only of errors that are generated only over a long period of time.
- Setting "0 hours, 0 minutes" for the delay time causes the message to be sent immediately after an error occurs.
- 7. Click OK.
- 8. Check the configuration of the malfunction notification conditions.
 - To display as a list, click **Show current settings table**. Check the configuration, and then close the window.
 - To compare the setting conditions of two recipients, use the list box to select each of the recipients you want to compare. Check the displayed configuration.

You can change notification condition settings by clicking inside the setting condition comparison table.

- 9. Click Submit.
- 10. Settings are saved on the printer and the network function is restarted.

Using SNMPv3

This printer implements an SNMPv3 compatible agent.

You can use an SNMPv3 compatible SNMP manager to encrypt printer administration with SNMP for greater security.

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click: Admin Setup > Network Setup.

QuickLabel QL-30	0s	
View Information Print Information	Printer Menu Admin Setup Calil	bration Links
Admin Setup	Protocol Options	
O Network Setup	TCP/IP	Enable
General Network Settings	NetBIOS over TCP	Enable *
O TCP/IP		
O NBT	Hub Link	
@ Email	Hub Link Status	OK(100Base-TX Full)
	Gigabit Network	Disable 🔻
⊕ SNMP	Hub Link Setting	Auto Negotiate 👻
(1) IPP		
O IEEE802.1X	Energy Efficient Ethernet	
() Security	Energy Efficient Ethernet	Enable -
Maintenance		
Print Setup		
O PS Setup		
O PCL Setup		
O Color Setup		
⊕ Management		

3. Click **SNMP > Settings**.



4. Select the check box of the SNMP version to be used in **STEP1**, and then click **To STEP2**.

If **SNMPv3** is selected, you will not be able to view or configure settings with SNMPv1. If **SNMPv3+v1** is selected, you will be able to view settings with either SNMPv1 or SNMPv3, but you can configure settings using SNMPv3 only.

5. In STEP2, enter an SNMPv3 user name for User Name.

Admin Setup	SNMPv3+v1 Settings				
Network Setup	STEP2. SNMPv3 Detail				
General Network Settings	User Name	root	(Max.32 characters)		
O TCP/IP	Context Name	v3context			
O NBT	Authentication Settings				
@ Email	Passphrase		(0-32 characters)		
O'SNMP	Algorithm	MD5 -			
 Settings 	Privacy(Encription) Settin	ngs			
OTrap	Passphrase		(0-32 characters)		
() IPP	Algorithm	DES -			
O IEEE802.1X	STEP3. SNMPv1 Detail				
	SNMP Community Configur				
⊕ Security ⊕ Maintenance	New SNMP Read Community	•••••	(Max.15 characters)		
D Print Setup D PS Setup D PCL Setup	Confirm New SNMP Read Community	"SNMP Read Community" is needed when printer by SNMP, The default value is "public", You can limit the browsing printer settings is changed.			
3 Color Setup B Management					

6. Enter the passphrase for verification in **Passphrase** for **Authentication Settings**.

lew Information Print Information Admin Setup					
ONetwork Setup	SNMPv3+v1 Settings				
	STEP2. SNMPv3 Detail				
General Network Settings	User Name	root	(Max.32 characters)		
O TCP/IP	Context Name	v3context			
O NBT	Authentication Settings				
@ Email	Passphrase	•••••	(0-32 characters)		
O SNMP	Algorithm	MD5 🔻			
Settings	Privacy(Encryption) Settin	ngs			
O Trap	Passphrase		(0-32 characters)		
@ IPP	Algorithm	DES -			
O IEEE802.1X	STEP3. SNMPv1 Detail SNMP Community Configuration				
Security					
Maintenance	New SNMP Read Community	•••••	(Max-15 characters)		
D Print Setup			(Max.15 characters)		
DPS Setup	Confirm New SNMP Read Community	"SNMP Read Community" is needed when printer by SNMP, The default value is "public". You can limit the browsing printer setting:			
D PCL Setup		is changed.			
🛛 Color Setup					

- 7. Select Algorithm.
- Enter the passphrase for encryption in Passphrase for Privacy (Encryption) Settings.
 You can select DES only for the encryption algorithm.
- 9. Click **Submit**.

10. Settings are saved on the printer and the network function is restarted. **Note:** For the context key of the SNMP manager to be used, specify "v3context".

Using IEEE802.1X

Authentication is in accordance with IEEE802.1X.

IEEE802.1X Setup Flow

To configure IEEE802.1X settings on the printer, first connect the printer and computer via a normal hub for setup. After completing the IEEE802.1X setting configuration procedure, connect the printer to the authentication switch.

- 1. Connect the printer to a computer.
- 2. On the computer, specify an IP address for setting up.
- 3. On the printer, specify an IP address for setting up.
- 4. On the printer, configure IEEE802.1 settings.
- 5. Connect the printer to the authentication switch.

To configure IEEE802.1 settings

- 1. Log in as an administrator. See "Logging in as an Administrator" on page 414.
- 2. Click: Admin Setup > Network Setup.



3. Click **IEEE802.1X**.



If PEAP is to be used, proceed to "To use PEAP". If EAP-TLS is to be used, proceed to "To use EAP-TLS".

To use PEAP

- 1. For the **IEEE802.1X** setting, select **Enable**.
- 2. For EAP Type, select PEAP.



- 3. In **EAP User**, enter the user name.
- 4. In **EAP Password**, enter the password.
- 5. Select the Authenticate Server check box.

6. Click Import of CA Certificate.

Note: If the **Not authenticate Server** check box is selected, import of a CA certificate is not required. If the **Not authenticate Server** check box is selected, there is no confirmation to determine if the connection is to a properly authenticated server.

This displays the "Import of CA Certificate" screen.

- 7. Enter the file name of the CA certificate, and then click **OK**.
 - The imported CA certificate is a certificate of the server certificate issuing authority of the RADIUS server.
 - Supported import file formats are PEM, DER, and PKCS#7.

Please c	hoose	Certificate to import.	DER/PKCS#7)
			Browse

The CA certificate is imported by the printer.

- 8. Click **Submit**.
- Settings are saved on the printer and the network function is restarted.
 When the standby screen appears on the control panel, turn off the printer.
 Advance to "To connect the printer to an authentication switch".

To use EAP-TLS

- 1. For the **IEEE802.1X** setting, select **Enable**.
- 2. For EAP Type, select EAP-TLS.



- 3. In **EAP User**, enter the user name.
- 4. Select the **Not use SSL/TLS Certificate for EAP authentication** check box.

5. Click Import of Client Certificate.

This displays the "Import of Client Certificate" screen.

- 6. Enter the file name of the client certificate.
 - The importable certificate file format is PKCS#12.
- 7. Enter the client certificate password, and then click **OK**.

	tificate to import. mported:PKCS#12)	
		Browse
certificate.		

The client certificate is imported by the printer.

- 8. Select the Authenticate Server check box.
- 9. Click Import of CA Certificate.

Note: If the **Not authenticate Server** check box is selected, import of a CA certificate is not required. If the **Not authenticate Server** check box is selected, there is no confirmation to determine if the connection is to the correct authenticated server.

This displays the "Import of CA Certificate" screen.

- 10. Enter the file name of the CA certificate, and then click **OK**.
 - The imported CA certificate is a certificate of the server certificate issuing authority of the RADIUS server.
 - Supported import file formats are PEM, DER, and PKCS#7.

se Certificate to i	mport. rtsd:PEM/DER/PKCS#7)	
	Brow	/se

The CA certificate is imported by the printer.

- 11. Click Submit.
- 12. Settings are saved on the printer and the network function is restarted.

When the standby screen appears on the control panel, turn off the printer. Advance to "To connect the printer to an authentication switch".

To connect the printer to an authentication switch

Note: Confirm that the printer is turned off.

- 1. Plug a LAN cable into the printer's LAN (network) interface connector.
- 2. Plug the LAN cable into the authentication switch's authentication port.
- 3. Turn on the power supply of the printer.
- 4. Confirm that the standby screen is displayed on the control panel.
- 5. Configure settings in accordance with the operating environment, such as the printer's IP address, etc.

16

Color Correct Utility

Changing Palette Colors

The Color Correct Utility can be used to specify palette colors selected with Microsoft Excel, Word, and other applications within the adjustment range.

- To print using the sample print function or the test print function of the Color Correct Utility, load 130-mm wide Continuous Paper in the printer's unwinder.
- Configure settings for each of the printer drivers.
- For test printing, use paper that is a size supported by the printer being used.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility.

Note: This utility requires the latest versions of the QL-300 PostScript and PCL drivers.

Use the Color Correct Utility to Perform Color Adjustment

Perform the following operation to start up the Color Correct Utility: Start > QL-300 > Color Correct Utility.

ì				Select a function and click Next.
			10.04	
				Function
				Office Palette Tuning(C)
			5 0	
			1.114	Hue & Saturation Tuning(G)
			~~	Import/Export Color Settings(E)
			4	
				Description
				Description
				Pick specific printer colors to adjust colors commonly used by business applications.
				used by business applications.

2. Select Office Palette Tuning, and then click Next.

3. On the "Select Printer" screen that appears, select the printer to be used, and then click **Next**.

Select printe		
	1. Select a printer.	
6 36 35 AS 46	1.1.1	
1 1 1 1 1 1 1 1 1	5314	
	QL-300	
	er i e	
	1 m	
	22.2	
and the second se		
	< Back Next > C	Cancel Help

Note: This displays a list of installed printer drivers. Configure settings for each of the printer drivers

4. On the "Select setting" screen that appears, select a setup, and then click **Print Sample**.

Select New to create a custom palette, or select an existing palette to modify.	Sel	ect	set	ting	9		
New 3. Click "Print Sample" button to print the sample file. (A sample file is needed with subsequent procedures.)							
3. Click "Print Sample" button to print the sample file. (A sample file is needed with subsequent procedures.)					1.00	existing palette to modify.	
3. Click "Print Sample" button to print the sample file. (A sample file is needed with subsequent procedures.)							
3. Click "Print Sample" button to print the sample file. (A sample file is needed with subsequent procedures.)					1. 1	New	
(A sample file is needed with subsequent procedures.)							
(A sample file is needed with subsequent procedures.)					1.12		
(A sample file is needed with subsequent procedures.)							
(A sample file is needed with subsequent procedures.)					17.60		
(A sample file is needed with subsequent procedures.)					12 2		
(A sample file is needed with subsequent procedures.)							
(A sample file is needed with subsequent procedures.)					\leq_{a}		
(A sample file is needed with subsequent procedures.)					Æ	3. Click "Print Sample" button to print the sample file.	
Print Sample							
						Deat Counts	
						Print Sample	
					11	Print Sample	
					11	Print Sample	
					11	Print Sample	
< Back Next > Cancel Help					1	Print Sample	

This prints the "Color Sample".



5. Click Next.



This displays the "Office Palette Tuning" screen.

6. Click **Print Palette**.

0	1	2	3	4	5	6	X
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	\mathbf{X}
24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39
5. Compare vant to adj	the palett ust, and cl	" button to e colors in ick an unm the instruct	the screen atched co	and samp lor. An inst	le colors y ruction app		rint Palette
alette". Co		ljusting all t the colors				Print	Reset

This prints the "Palette Color Sample".



Note: Items that are crossed out (x) cannot be adjusted.

7. Compare the palette (screen colors) of the "Office Palette Tuning" screen with the printed "Palette Color Sample". If the colors are different, adjust them. The example below shows palette color adjustment of the color circled.

Palette Color Sample:



Office Palette Tuning Screen

<u>_0</u>	1	2	3	4	5	6	X
	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24.	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39
Click "Print F Compare the nt to adjust, he screen. F When you fit	e palette and clic Follow th nish adju	colors in t k an unm le instructi usting all t	the screen atched co ion and ad he unmatc	and samp lor. An inst just the co	le colors y ruction app lors. es, click "l	pears P	rint Palette Reset
Compare the nt to adjust, he screen. F When you fii	e palette and clic Follow th nish adju	colors in t k an unm le instructi usting all t	the screen atched co ion and ad he unmatc	and samp lor. An inst just the co hed palette	le colors y ruction app lors. es, click "l	pears P	

8. On the "Office Palette Tuning" screen, click the color to be adjusted (screen color).



This displays the "Adjustment values input" screen.

9. Use the X-value and Y-value pull-down menus to check their allowable setting ranges, and then click **CANCEL**.



Note: In order to preserve overall balance, the allowable adjustment ranges depend on the color.

10. For the adjustment color (screen color) of the "Office Palette Tuning" screen, search the "COLOR SELECTION SAMPLE" for the desired color within the adjustment range, and note the X-direction (hue) and Y-direction (brightness) values (X-value and Y-value).





11. On the "Office Palette Tuning" screen, click the color to be adjusted (screen color).

This displays the "Adjustment values input" screen.

12. On the "Adjustment values input" screen, select the X-value and Y-value you found in step (10) of this procedure, and then click **OK**.



The display will return to the "Office Palette Tuning" screen.

13. Click **Print Palette** to print the "Palette Color Sample". After confirming that the changed "Palette Color Sample" color is closer to the color sample color for the configured settings, click **Next**.

For other colors you want to adjust, repeat steps (8) through (13) of this procedure.

	1	2	3	4	5	6	X
8	9	10	11	12	13	14	
16	17	18	19	20	21	22	
24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39
4. Click "Pri 5. Compare want to adju in the scree 6. When yo	the palett ust, and cl n. Follow t	e colors in ick an unn he instruct	the screer atched co ion and ac	and samp lor. An inst ljust the co	ble colors y truction ap blors.	pears r	rint Palette
Palette". Co specified, a	onfirm that	the colors					Reset
	-	< Back	-		Cance	- P P	

14. Enter the setting name, and then click Save.

				7. Save the modi				
			-	appear as a colo	r setting in y	our printer drive	er.	
				Save Setting				
				Please input sav	e name.			
				Sotting Name:	now modi	£.,		1
				Setting Name:	new modi	iy		
							Save	
							Save	
			E					
			-					
			-					

15. Click OK.



Note: If you update or re-install the printer driver, created color adjustment names will be re-imported when you start up the Color Correct Utility. After confirming that the Color Adjustment name is shown for Select Setup, click **Exit**.
16. Click **Finish** to exit the Color Correct Utility.

Use a Printer Driver to Select a Setup Name and then Print

Windows PCL Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the **Color** tab, click **Detail**, and then select **Simple Adjustment**.
- 5. Select the **Color Correct Utility Settings** check box, select the settings you created with the Color Correct Utility, and then click **OK**.

Color Mode	RGB Color Setting Color matching options	1
This color setting is optimum for every	Monitor - Auto	mar My 12
document.	Color Correct Utility Settings	1-1-1 BE (1)
Simple Adjustment	new modify v	ELEV/ NOR I
This color setting is for office documents.	Black Finish Auto Composite Black (CMVR) Trave Black (0)	
O Graphic Pro This color setting is for graphic documents.	Adjust Darkness Brightness: 0 0	
	Saturation: O O	•
No Color Matching This color setting is for color matching in an application.		
epplication.	OK Cancel	Help Defayit

6. Print.

Changing the Gamma Value and Hue

You can use the Color Correct Utility to adjust the gamma value and/or hue for color matching.

- To print using the sample print function or the test print function of the Color Correct Utility, load 130-mm wide Continuous Paper in the printer's unwinder.
- Configure settings for each of the printer drivers.
- For test printing, use paper that is a size supported by the printer being used.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility.

Use the Color Correct Utility to Change the Gamma Value, Hue, and Other Settings

- Perform the following operation to start up the Color Correct Utility: Start > QL-300 > Color Correct Utility.
- 2. Select Hue & Saturation Tuning, and then click Next.



3. On the "Select printer" screen that appears, select the printer to be adjusted, and then click **Next**.

			 Select New to create a custom palette, or select an existing palette to modify. 	
		24		
			200	
		1	New	
		1 1		
		10.0		
		1		
				_
		44	Click "Print Sample" button to print the sample file.	
			(A sample file is needed with subsequent procedures.)	
		1000	Print Sample	
			the carpe	

Note: This displays a list of installed printer drivers. Configure settings for each of the printer drivers

4. On the "Select setting" screen that appears, select the mode you want to use as the standard, and then click **Next**.

		_	2. Select one of the printer's color settings as a starting	
		201	point for additional adjustments.	
		1. 1	Monitor - Perceptual	
			Monitor - Vivid	
		1.12	Monitor - light	
		1.112	Adobe RGB	
		12.60	sRGB	
		15.2		
		2		
		12		

5. To adjust, move the Gamma, Hue, and Saturation sliders.

-		Gamma		
		2.2		
Selec	t a color and adjust	Hue and Saturation	on to tune the printer's output	t.
Printer	Colors Red(R) Yellow(Y)	Hue		Googlasie
	Green(G)		Use printer's unadjust	ed color.
0	Cyan(C)	Saturation		
	Blue(L)			C C E
	Magenta(M)	1		
. Click ettings		view your change	s. Click ""Reset"" to restore	the origin
oturiya	Print Test		Reset	

The **Gamma** slider can be used to adjust overall brightness, while the **Brightness/Satu**ration slider adjusts the output color.

Brightness is increased by sliding the Gamma slider to the left.

The **Hue** slider adjusts each color in the color wheel forward (+) direction or reverse (-) direction. For example, moving the slider in the plus (+) direction while Y (Yellow) is



selected will move towards G (Green), while moving in the minus (-) direction moves towards R (Red).

The **Use printer's unadjusted color** option adjusts based on use of colors that are 100% toner primary colors. Selecting the check box for this option fixes the **Gamma** slider for the selected color and performs adjustment so printing uses the toner blends shown below.

Printer Color	Result
Cyan (C)	Cyan toner 100%
Magenta (M)	Magenta toner 100%
Yellow (Y)	Yellow toner 100%
Red (R)	Magenta toner 100% + Yellow toner 100%
Green (G)	Cyan toner 100% + Yellow toner 100%
Blue (B)	Cyan toner 100% + Magenta toner 100%

6. Click Print Test.



This prints the "Test Printing Sample".

7. Check the color adjustment result.

If adjustment results are not what you expected, repeat steps (5) and (6) of this procedure.

- 8. Click Next.
- 9. Enter the setting name, and then click **Save**.

			6. Save your cha	nang	es. Th	e name	vou en	ter will appear a	as a
		1. 1	color setting in y	your	printer	driver.	-		
			Save Setting						
			Please input sa	ave r	name.				
		* *	and an and an and	F					4
		1.	Setting Name:	C	ontras	t value	modify		
		1.5							_
								Save	
		<_							-
		16							
		-							
		-							

10. Click **OK**.



Note: If you update or re-install the printer driver, created color adjustment names will be re-imported when you start up the Color Correct Utility. After confirming that the Color Adjustment name is shown for Select Setup, click **Finish**.

11. Click **Finish** to exit the Color Correct Utility.

Use a Printer Driver to Select a Setup Name and then Print

Windows PCL Printer Driver

- 1. Open the file to be printed.
- 2. Select **Print** in the **File** menu.
- 3. Click **Preferences** (or **Properties**).
- 4. On the Color tab, click Detail, and then select Simple Adjustment.
- 5. Select the **Color Correct Utility Settings** check box, select the settings you created with the Color Correct Utility, and then click **OK**.

Color Mode O Augomatic This color setting is optimum for every document.	RGB Color Setting Color matching options Monitor - Auto ⊡Color Correct Ukley Settingol contrast value modify	12
Single Adjuttment This color setting is for This color setting is for graphic Pro This color setting is for graphic documents. O to Color Matching This color setting is no application.	Black Finds @ Ada Data Thue Black (CM1K) D Thue Black (N Adjust Dukiness Brightness Seturation: 0 @	† 44
Color Swatch	OK Cancel	Help Default

6. Print.

Saving a Color Adjustment Setup

You can use the Color Correct Utility to save a setup to a file.

- Configure settings for each of the printer drivers.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility.

- 1. Perform the following operation to start up the Color Correct Utility: **Start > QL-300 > Color Correct Utility**.
- 2. Select Import/Export Color Settings, and then click Next.

		-	Select a function and click Next.	
			Function	
		12.16	Office Palette Tuning(C)	
			O Hue & Saturation Tuning(G)	
		~~ <u>}</u>	Import/Export Color Settings(E)	
		44		
			Description	
		-	Share Color Correct adjustments with other users.	
		_		

3. Select the printer whose setup you want to save, and then click **Next**.

			Select a printer driver for Importing, Exporting or deleting	
		202	color settings.	
		1	QL-300	1
		84		
		1.00		
		1.0.4		
		1000		
		/		
		2		
		10		
		-		
		_		

This displays the "Import/Export Color Settings" screen.

				Import/Export		
				Export	Export custom color settings to a file.	
				Import	Import custom color settings from a file.	
				-		
				Delete		
				Select the se	tting you want to delete.	
				contrast val	ue modify	
				new modify		
				Delete	Deletes the selected setting.	
-			15			

4. Click **Export**.

			Import/Export	
			Export Export custom color settings to a file	20
			Import Import custom color settings from a fi	le.
			Delete	
			Select the setting you want to delete.	
			contrast value modify	_
			new modify	
				_
			Delete Deletes the selected setting.	

5. On the "Export Settings" screen, select the settings you want to export, and then click **Export**.

xport Settings		
Select one or mor	e settings and cl	ick Export.
contrast value mo new modify	dify	
Select all	Export	Cancel

Note: You can select multiple setups by holding down your computer's Ctrl or Shift key as you select.

6. Select the save location, enter the name of folder for storing the setup, and then click **Save**.

03	Save As				×
	Save in	: 🔮 Documents	~	🎯 🤌 📂 🛄 -	
	Quick access		No items match your	search.	
	Desktop				
	Libraries				
	Land This PC				
	Network		[
		File <u>n</u> ame:		~	<u>S</u> ave
			Folder	~	Cancel

Export Se	ttings		×
ĺ	A setting was store "C:\Users\SE23\Doo	ed in cuments\MyColorData".	
		ОК	

8. Click **Finish** to exit the Color Correct Utility.

Importing a Color Adjustment Setup

7.

You can use the procedure below to import a color adjustment setup from a file.

- Configure settings for each of the printer drivers.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility.

- 1. Perform the following operation to start up the Color Correct Utility: **Start > QL-300 > Color Correct Utility**.
- 2. Select Import/Export Color Settings, and then click Next.

				k Next.	
		3	Function		
		100			
		12.16	Office	Palette Tuning(<u>C</u>)	
			BOCCOBEC		
		1.1			
			O Hue &	Saturation Tuning(G)	
			Import/	Export Color Settings	(E)
		144			
		-	Description		
		-	Share Color Correct adjus	stments with other use	ers.
		~			

3. Select the printer whose setup you want to import, and then click **Next**.

			Select a printer driver for Importing, Exporting or deleting color settings.	
		3053	color seturigs.	
			QL-300	1
			42.000	
		1. 1		
		1.14		
		1.10		
		\leq_{\leq}		
		4		-
		-		

This displays the "Import/Export Color Settings" screen.

			Import/Export	
		3	Export Export custom color settings to a fi	le.
		-	Import Import custom color settings from a	file.
		11.1	1201 C	
		80 e	Delete	
		0.5	Select the setting you want to delete.	
			contrast value modify	
			new modify	
		6		
			Delete Deletes the selected setting.	

4. Click **Import**.

			Import/Export	
		33	Export Export custom color sett	ings to a file.
		-	Import Import custom color setti	ings from a file.
		1. 1		
		(1, 1)	2.1.	
		80 e	Delete	
		1. 1	Select the setting you want to delete.	
			contrast value modify	
			new modify	
		6		
			Delete Deletes the selected se	tting.
		1		

5. In the folder where the setup you want to import is stored, select the appropriate CCM file, and then click **Open**.

🔮 Open				×
Look in:	MyColorDa	ta ~	G 🗊 📁 🗔 •	
4	Name	^	Date modified	Туре
Quick access	MyColorE	lata.ccm	6/8/2018 11:09 AM	CCM File
Desktop				
Libraries				
LINIS PC				
Network	<			>
Network	File game:	MyColorData.com	~ [Open
	Files of type:	CCM Files(".com)	~	Cancel

6. On the "Import Settings" screen that appears, select the setup you want to import, and then click **Import**.

Select a setting ye ""Import"" button		t and click
contrast value mo new modify	dify	
Select all	Import	Cancel

Note: You can select multiple setups by holding down your computer's Ctrl or Shift key as you select.

7. After confirming that the setup has been imported, click **Finish**.

ì			- Ť	Import/Expo	rt		
			100	Export	Export cus	tom color settings to	a file.
			30	Import	Import cus	tom color settings fr	om a file.
			100	buuuu	uud ·		
			10.2	Delete			
			10 20	Select the s	setting you wa	nt to delete	
				0.0000000000000000000000000000000000000	9-9 0. 2 3 9 9 9 9 1		
			4	contrast va			
			LE.	new modify	/		
			1000				
				14 A			
				Delete	Deletes th	e selected setting.	
-	 	 					

Deleting a Color Adjustment Setup

You can use the procedure below to delete color adjustment setups you no longer need.

- Perform the following operation to start up the Color Correct Utility: Start > QL-300 > Color Correct Utility.
- 2. Select Import/Export Color Settings, and then click Next.

		-		Select a function and click Next.
				Function
				Office Palette Tuning(C)
				O Hue & Saturation Tuning(G)
				Import/Export Color Settings(E)
			-	Description
			-	Share Color Correct adjustments with other users.
			·	

3. Select the printer whose setup you want to delete, and then click Next.

			Select a printer driver for Importing, Exporting or deleting	
		2.5	color settings.	
		1	QL-300	
		8.7		
		1000		
		1.0.4		
		11.13		
		. /		
		- je		
		44		

4. From the list, select the setup you want to delete, and then click **Delete**.

Import/Export	
Export Export custom color settings to a file.	
Import Import custom color settings from a fil	le.
Delete	
Select the setting you want to delete.	
contrast value modify	
new modify	
Delete Deletes the selected setting.	
< Back Finish Cancel I	Help

5. Click **Yes** to delete the setup.



6. After confirming that the setup has been deleted, click **Finish**.

		Import/Expor	t		
		Export	Export cus	tom color settings to	a file.
		Import	Import cust	om color settings fr	om a file.
			-		
		Delate			
		Delete			
		Select the se	etting you wa	nt to delete.	
		contrast va	lue modify		
		Contrast va	ide modily		-
		Delete	Deletes th	e selected setting.	



Color Swatch Utility

Operating Environment

The Color Swatch Utility prints RGB color samples for the printer. Printed color samples can be used to determine the RGB value settings that need to be specified with an application in order to obtain desired printed colors.

Note: The Color Swatch Utility is installed along with the printer drivers.

Note: The results of the color test print are printed according to the paper settings in the printer driver, so use paper that allows for the largest printout.

Note: This utility requires the latest versions of the QL-300 PostScript and PCL drivers.

Printing RGB Color Samples

- Perform the following operation to start up the Color Swatch Utility: Start > QL-300 > Color Swatch Utility.
- 2. Click Print.
- 3. Select this printer.
- 4. Click **OK** or **Print**. This prints a three-page color sample.



Note: The RGB values below each color block show the component quantity (0 to 255) of R (red), G (green), B (blue) in the block.

5. Find the color in the color sample that you want to print, and make a note of its RGB values.

Note: If you cannot find the color you want in the color sample, perform the procedure below to customize the color sample manually.

6. Click **Switch** to switch to the custom color sample.

7. Click **Detail** to display the **Edit Custom Color Swatch** dialog box.

Edit Custom	Color Swatch	×
<u>H</u> ue:	0	
<u>S</u> aturation:	100	•
Lightness:	50	
	<u>D</u> efault	Close

8. Adjust the positions of the three bars until the desired color is shown on the monitor screen, and then click **Close**.

Hue: Changes the hue. 0 displays red, while a higher value moves on the color wheel towards green.



Saturation: Changes the vividness. A higher value increases vividness, while a lower value makes the color more cloudy (gray).







- 9. Click Print.
- 10. Select this printer.
- 11. Click **OK** or **Print**. This causes a single page to be printed by the printer.
- 12. If you cannot find the color you want in the color sample, repeat this procedure.

Use the Application to Print the Desired Color

- 1. Open the file to be printed.
- 2. Use the application to select text or graphics, and change the RGB values to those of the color sample block that is the color you want.

Note: For information about how to specify colors with an application, see the application's user documentation.

3. Print.

Note: When printing a desired color from an application, use the same printer driver settings as those that were used when printing the color sample.

Upgrades

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Upgrading the Printer Firmware

Use the following instructions to upgrade the QL-300 printer firmware.

- Download the QL-300 firmware upgrade package from the QuickLabel website (www.quicklabel.com). The file will be named QuickLabel_QL-300_Firmware-x.xx.zip (where x.xx indicates the firmware version number).
- Unzip the firmware upgrade package file. A self-extracting executable file named QuickLabel QL-300 Firmware-x.xx.exe (where x.xx indicates the firmware version number) will be saved to your PC.
- 3. Launch the self-extracting executable file and save its contents to a folder on your PC.
- 4. Launch the **FWUpdateTool.exe** file.
- 5. At the language prompt, select your desired language. Then choose **OK**.

Firmware update tool	
English	~
ОК	Cancel

- 6. In the software license agreement screen, accept the agreement and choose Next.
- 7. In the precautions screen, observe the warnings and precautions. Then choose **Next**.



8. In the next screen, select **Specifies and updates the downloaded firmware**.

🖶 Firmware upda	ite tool				×
Specify 1	the update method.				
() Spe	ecifies and updates the do	wnloaded firmware			
C:	\Users\Matt\Desktop\FW_	Test\QuickLabel QL	-300 Firmware-1.03_0	_4.bin Refere	nces
	e sure there are no errors disable the updates.	in selecting the de	vice to be updated. Se	nding to the incorrect d	evice
	Implement data checks				
I	MD5 hash value				
Help			Back	Next	Cancel

Select **References**. Browse to and select the file **QuickLabel QL-300 Firm**ware-B0x.xx_x_s.bin (where x.xx indicates the firmware version number). Then choose Next.

9. In the next screen, you will search for the printer you want to upgrade.

Firmware update to Click the "Start search" outton.		evice, and th	en enable the check b	ox for the device to	be updated. Click the "Next"
Start Search			Access Point	⊡ USB	Environmental setting
Device name	No. of devices s	searched	Latest firmware		
Update histor	у				
		MACA	ddress	Update	
Serial No.	Access Point	nos a	ddi C35	opulate	
Serial No.	Access Point		001035	opublic	
Serial No.	Access Point			opune	
Serial No.	Access Point			opula	
Serial No. Select Device>					Device 0 has been selected
					Device 0 has been selected

Select whether your printer is connected with a **Network** or **USB** interface. Then choose **Start Search**.

Note: Any printers listed after a canceled search may not upgrade properly. Please run the search again if a search has been canceled

10. After the search completes, the installed QL-300 printers will be displayed. Select the printer you want to upgrade.

<table-of-contents> Firmware update tool</table-of-contents>					×
Click the "Start search" butt button.	ton to search for a devic	e, and the	n enable the check b	oox for the device to	be updated. Click the "Next"
Start Search			Access Point	USB	Environmental setting
Device name	No. of devices sea	rched	Latest firmware		
QuickLabel QL-300s	1		-		
Update history					
Serial No.	Access Point	MAC Ac	ldress	Update	
AG92001386	USB002	-		Applicable	
Select Device>>					Device 1 has been selected

From the top list, select the printer model. From the bottom list, select the printers you want to upgrade. Then choose **Next**.

11. In the next screen, you will be prompted to enter the administrator password for the printers.

🖶 Firmware update tool	×
Specify the device administrator pass	word.
Administrator password	•••••• Environmental setting
The specified administrator password	will be used for all devices to be updated.
Help	Start update Cancel

Enter the administrator password. The factory default setting is 999999. See "Changing the Administrator Password" on page 265.

Choose Start update.

12. The firmware upgrade process will begin. The upgrade status will be indicated by progress bars and informational messages.

If an error occurs, you will be notified of the failure. In this situation, you can access the help system for assistance resolving the error.

13. When the firmware update is complete, choose **Next** to close the firmware update program.

Firmware upda	te tool				×			
Overall progress Firmware update complete for 1 of 1 devices (0 remaining)								
	Individual progress Firmware update complete.							
Device name QuickLabel QL	Serial No. AG92001386	Access Point USB002	MAC Address -	State Succeeded				
Help				Next				





Be sure to carefully read and follow the instructions in this manual before installing the machine.

Cautions Related to Safety



Residual Risk Map

The numbers shown in the diagrams indicate the numbers for the residual risk associated with the relevant locations, as described in the "List of Risks" for the product. For details about the various risks, refer to the "List of Risks".





List of Risks

The letters shown under "Locations on machine" indicate the locations on the machine as indicated by the letters on the "Residual Risk Map" for the product. Refer to the "Residual Risk Map" for the specific location on the machine.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
1	Installation / transportatio n	Carefully read User Guide	A	CAUTION	Because the machine (the printer alone) weighs 43 kg, there is a risk of injury while lifting it.	Two or more people are required to lift the machine.
2	Installation / transportatio n	Carefully read User Guide	A	CAUTION	Because the machine (the printer alone) weighs 43 kg, there is a risk of injury if it falls while workers are holding the OP-Assy.	Workers must hold the machine at the specified handholds while working.
3	Installation / transportatio n	Carefully read User Guide	A	CAUTION	Because the machine (the printer and unwinder) weighs up to 62 kg, there is a risk of injury if the machine is installed on a table that is unstable or unable to bear the load, such that the table overturns or breaks.	The machine must be installed so that the table on which it is installed is stable.The machine must be installed on a table capable of bearing the weight of the machine.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
4	Installation / transportatio n	Carefully read User Guide	A	CAUTION	There is a risk of injury if the machine (printer and unwinder) extend past the edge of the table, such that it could catch on a person and fall off.	The machine must be installed on a table that is large enough to leave empty space around the machine.
5	Usage / maintenance	Carefully read User Guide	В	CAUTION	There is a risk of injury from fingers or hair being twisted into the rollers on the fuser and exit unit.	Workers must not touch the output roller area on the fuser and exit unit with their hands while the printer is operating. Workers must not put their faces close to or look into the output roller area on the fuser and exit unit while the printer is operating.
6	Electrical connections	Carefully read User Guide	С	CAUTION	There is a risk of electric shock from the electric power cord.	Workers must not touch the power plug or power cord if their hands are wet.
7	Electrical connections	Carefully read User Guide	С	CAUTION	There is a risk of electric shock from the electric power connectors.	Workers must not insert any metal objects, such as a screwdriver, into the power connectors.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
8	Usage / maintenance	Carefully read User Guide	D	CAUTION	Workers could pinch their hands if they grip the LED head while closing the top cover.	Workers must press on the top of the top cover.
9	Usage / maintenance	Carefully read User Guide	E	CAUTION	Workers could pinch their fingers or hands in the top cover or the top cover's support while closing the top cover.	Workers must press on the top of the top cover.
10	Usage / maintenance	Carefully read User Guide	F	CAUTION	There is a risk of injury if the fuser and exit unit falls while it is being pulled out.	Workers must grip the handle on the fuser unit when lifting the fuser and exit unit.
11	Usage / maintenance	Carefully read User Guide	G	CAUTION	There is a risk of injury if the print cartridge set falls while it is being pulled out.	Workers must grip the handles on the toner cartridge basket for the print cartridge set when lifting it.
12	Installation / transportatio n	Carefully read User Guide	Н	CAUTION	There is a risk of injury if the unwinder falls while it is being lifted.	Workers must hold the machine at the specified handholds while working.
13	Usage / maintenance	Carefully read User Guide	I	CAUTION	There is a risk of injury if the belt unit falls while it is being removed.	Workers must grasp the handle on the belt unit when removing the belt unit.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
14	Installation / transportatio n	Carefully read User Guide	J	CAUTION	There is a risk that fingers or hands could be pinched between the unwinder and the printer while installing the unwinder.	Workers must hold the machine at the specified handholds while working.
15	Usage / maintenance	Carefully read User Guide	1	CAUTION	There is a risk that hands or fingers could be pinched between the handle and the machine while removing or installing a belt unit.	Confirm the procedures for removing and installing the belt unit.
16	Usage / maintenance	Carefully read User Guide	к	CAUTION	There is a risk that hands could be pinched in the cover of the unwinder.	Workers must press on the cover of the unwinder.
17	Usage / maintenance	Carefully read User Guide	к	CAUTION	There is a risk that hands or fingers could be pinched while removing the cutter unit of the unwinder.	Workers must confirm the procedure for installing and removing the cutter unit.
18	Usage / maintenance	Carefully read User Guide	К	CAUTION	There is a risk of injury if the cutter unit of the unwinder falls while it is being removed.	Workers must confirm the procedure for installing and removing the cutter unit.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
19	Maintenance	Carefully read User Guide	L	CAUTION	There is a risk that hands may touch the cutter blade and be cut while dismantling the cutter unit of the unwinder and washing the cutter blade.	Confirm the procedure for cleaning before you dismantle the cutter unit and wash the cutter blade.
20	Usage	Carefully read User Guide	Μ	CAUTION	There is a risk of injury if the roll paper is dropped or overturned.	Workers must wear rubber gloves or similar gloves while installing or removing roll paper. Workers must confirm the storage and installation procedures so they do not drop or overturn the roll paper.
21	Usage	Carefully read User Guide	М	CAUTION	There is a risk that hands could be cut on the edge of roll paper.	Workers must wear rubber gloves or similar gloves while handling roll paper.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
22	Usage	Carefully read User Guide	М	CAUTION	There is a risk that hands or fingers could be pinched by the roll paper and the roll paper holder while loading roll paper onto the roll paper holder.	Workers must confirm the procedure for attaching and removing roll paper. Workers must turn the knob on the roll paper holder so it is sufficiently loose when loading roll paper.
23	Usage / maintenance	Carefully read User Guide	М	CAUTION	There is a risk of injury from fingers or hair being twisted into the roll paper or roll paper holder while the machine is operating.	Workers must not touch the shaft of the roll paper holder while the printer is operating. Workers must not put their faces close to or look into the shaft of the roll paper holder while the printer is operating.
24	Usage	Carefully read User Guide	Ν	CAUTION	There is a risk of injury if the roll paper falls off because the roll paper could not be secured to the roll paper holder.	Workers must confirm the procedure for attaching and removing roll paper. Workers must turn the knob on the roll paper holder so it is sufficiently loose when loading roll paper.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
25	Maintenance	Maintenance technology	0	WARNING	There is a risk of injury, accident, or reduced performance of the product if it is dismantled or assembled by a person who does not have the tools or maintenance technology.	Workers must request repairs from Technical Support.
26	Usage	Carefully read User Guide	0	WARNING	There is a risk of electric shock when printing on metal foil or electrically conductive paper if the paper is touched while printing.	Workers must not use metal foil or electrically conductive paper.
27	Usage	Carefully read User Guide	Ρ	CAUTION	There is a risk of injury by stepping on the cores of roll paper or on rolls of paper that are left on the floor.	Workers must confirm the storage and installation procedures so they do not drop or overturn the roll paper.
28	Installation / transportatio n	Carefully read User Guide	P	CAUTION	There is a risk of injury from the silica gel used in the packing materials.	Workers must be careful when handling the silica gel used in the packing materials.
29	Installation / transportatio n	Carefully read User Guide	Ρ	CAUTION	There is a risk of injury from the plastic bags used in the packing materials.	Workers must be careful when handling the plastic bags used in the packing materials.

No	Job	Qualifications and training needed for job	Location on machine	Extent of hazard	Description of hazard	Protective measures implemented by machine installer and user
30	Installation / transportatio n	Carefully read User Guide	Ρ	CAUTION	There is a risk of injury to fingers and hands from the cardboard used in the packing material.	Workers must be careful when handling the cardboard used in the packing materials.
31	Installation / transportatio n	Carefully read User Guide	Ρ	CAUTION	There is a risk of injury from dropping the printer while removing the plastic bags and cushioning used in the packing materials.	Workers must confirm the procedure for unpacking the machine.
32	Usage	Carefully read User Guide	Ρ	CAUTION	Smoke or fire could occur if the air vents are blocked.	The air vents must not be blocked.

General Warnings and Cautions

Symbol	Warning
	Do not touch the safety switch inside this machine. High voltage may occur, resulting in electric shock. Also, a gear may rotate, resulting in injury.
	Do not use a highly combustible spray near this machine. Some parts inside the machine become very hot, possibly resulting in fire.
8	If the cover becomes extremely hot, the machine emits smoke or odor, or you hear a strange sound, unplug the power plug from the outlet, and contact your dealer. Fire may result.
8	If liquid such as water gets inside the machine, unplug the power plug from the outlet, and contact your dealer. Fire may result.
8	If you drop a clip or other foreign objects into the machine, unplug the power plug from the outlet, and take the foreign objects out. Electric shock, fire, or injury may result.
	Do not perform any operation or disassembly other than instructed in manuals. Electric shock, fire, or injury may result.
	There is a risk of explosion if the battery is replaced with the wrong type of battery. The battery in the machine does not need to be replaced. Do not touch the battery.
8-5-	If the machine is dropped or the cover is damaged, unplug the power plug from the outlet, and contact your dealer. Electric shock, fire, or injury may result.
0=5	Unplug the power plug regularly, and clean the bases of and in between the plug blades. If the power plug is left plugged into the outlet for an extended period of time, dust adheres on the bases of the plug blades, and a short may occur, possibly resulting in fire.
\bigcirc	Do not connect the power cord, cables, or the ground wire in any way other than instructed in manuals. Fire may result.
\bigcirc	Do not put a cup with liquids such as water on the machine. Doing so may cause electric shock and/or fire leading to personal injuries.
\bigcirc	Do not let liquid get inside this machine, or allow this machine to get wet. Electric shock or fire may result.

Symbol	Warning		
\bigcirc	Do not insert any object into a vent hole. Electric shock, fire, or injury may result.		
	Do not throw print cartridges or waste toner boxes into a fire. The toner may ignite, resulting in burns.		
\bigcirc	Do not vacuum spilled toner with an electric vacuum cleaner. Vacuuming spilled toner with an electric vacuum cleaner may result in ignition due to sparks from electric contacts or other reasons. If toner spills on the floor or other places, wipe the toner gently with a damp rag or other cloth while using care not to scatter the toner.		
	When the machine cover is opened, do not touch the fuser unit. Burns may result.		
\bigcirc	Operation using an UPS (uninterruptible power supply) or inverter is not guaranteed. Do not use an uninterruptible power supply or inverter. Fire may result.		

Symbol	Caution
Do not go near the paper output part when you turn the por when printing is in progress. Injury may result.	
	Do not disassemble the print cartridge, or force it open. You may inhale the scattered toner, or the toner may land on your hands or clothes, making them dirty.

Emergency First Aid

Take care with toner powder:

0	If you inhale it	Move to an area with fresh air and rest in a posture that allows you to breath freely.	
	If it gets on your skin	Wash with plenty of soap and water.	
	If it gets in your eyes	Very carefully wash with water for several minutes. Next, if you are wearing contact lenses and can easily remove them, then remove them. Then, continue washing.	
	lf you drink it	If you feel bad, contact a physician.	
Major Specifications

Item	Specification
Model Number	QL-300 QL-300s
RAM (standard/maximum)	2GB/2GB
Weight	Approx. 62 kg (including unwinder)
Power	110 - 127 VAC (Range 99 - 140 VAC), 50/60 Hz ± 2% 220 - 240 VAC (Range 198 - 264 VAC), 50/60 Hz ± 2%
Power consumption	When operating: Maximum 1200 W/Average 710 W
	In standby: Average 27 W
	In power conservation modes Power save mode: 25 W or less Auto power off: 1 W or less *This product does not consume power if the main power switch is turned off, even if it is plugged into an electric outlet.
Operating environment	Temperature: 10 to 30 °C, humidity: 20 to 70% RH Maximum wet-bulb temperature is 25 °C (to assure high-quality full color printing, temperature should be 17 to 27 °C, and humidity at 50 to 70% RH)
Network connections	1000BASE-T/100BASE-TX/10BASE-T (Network Factory Defaults: 100BASE-TX/10BASE-T)
Local connections	USB 2.0 interface (suitable for Hi-Speed USB)
Supported operating systems	Windows 8.1/Windows 8/Windows 7/Windows Server 2012 R2/Windows Server 2012/Windows Server 2008 R2/Windows Server 2008 Refer to the operating environment for details.

	ltem	Specification
Printing method		QL-300: Full-color dry-type electrophotographic method using 4 consecutive digital LED heads QL-300s: Full-color dry-type electrophotographic method using 5 consecutive digital LED heads
Printable width	Paper width	Roll paper: 25.4 mm (1 inch) - 130 mm (5.1 inches), including liner
	Printable width	Roll paper: 21.16 mm (0.83 inches) - 125.76 mm (4.95 inches)
	Reference position	Right edge facing feed direction
Resolution	Print resolution	1200 × 1200 dpi (2-tone)/600 × 600 dpi (2-tone)
	LED dot-pitch	1200dpi
Print colors		Yellow, magenta, cyan, black, and white*1
Print languages		PCL5c, PCL6(PCLXL), PostScript
Print speed	Color	QL-300 (CMYK) roll paper: 6 ips QL-300 (CMYK+W) roll paper: 6 ips
Media Type		Standard Media, die-cut label paper
Feed capacity		Roll diameter: 203.2 mm (8 inches) Core size: 3 inches
Assured print range		2.12 mm from edge of paper. 2.12 mm from edge of label for label paper
Print accuracy		± 0.5 mm accuracy at leading edge print start point (2σ N ≥20 When using recommended media and recommended operating conditions) ± 0.5 mm accuracy at right edge print start point (When using recommended media and recommended operating conditions) Image stretching: Less than 0.5% of length of paper (When using recommended media and recommended operating conditions)
Warmup time		Approx. (within) 50 seconds after turning power on (at room temperature of 25 °C and rated voltage)* ²
Wear items and maintenance parts		Wear items: Print cartridge, belt unit (3-piece set of belt, waste toner box, and 2nd transfer roller), waste toner box, fuser and exit unit Maintenance products: Cutter unit, F0 roller unit, paper guide, feed unit

Item	Specification
Service life of equipment* ³	5 years or 500 km
Storage environment	Temperature: -10 to 43 °C Relative humidity: 10 to 90%

*1: QL-300s only.

*2: Not including correction operations.

*3: Equipment service life varies depending on your operating environment.

Roll Paper Specifications

Continuous paper (normal printing)



Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)

Ite	em	Specification
Roll core		Inner diameter: 76.2 mm (3 inches)
Outer diameter		203.2 mm (8 inches) or less
Other	W2: Paper width	25.4 to 130 mm (1 to 5.12 inches)
	L2: Paper length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	2.12 mm (0.0835 inches)
	L6: Lower edge cutting margin	2.12 mm (0.0835 inches)
	A: Top margin	2.12 mm (0.0835 inches) or more
	B: Bottom margin	2.12 mm (0.0835 inches) or more
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more



Continuous paper (printing on large size paper)

Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)
Roll core	Inner diameter: 76.2 mm (3 inches)
Outer diameter	203.2 mm (8 inches) or less

lte	em	Specification
Other	W2: Paper width	25.4 to 130 mm (1 to 5.12 inches)
	L2: Paper length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	2.12 mm (0.0835 inches)
	L6: Lower edge cutting margin	1.5 mm (0.0591 inches)
	A: Top margin	0 mm (0 inches)
	B: Bottom margin	0 mm (0 inches)
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more



Continuous paper (with black marks)

Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)
Roll core	Inner diameter: 76.2 mm (3 inches)
Outer diameter	203.2 mm (8 inches) or less

Ito	em	Specification
Other	W2: Paper width	25.4 to 130 mm (1 to 5.12 inches)
	L1: Black mark interval	15.9 to 1324.0 mm (0.626 to 52.126 inches) * The black marks contain carbon.
	L2: Paper length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	1.7 mm (0.067 inches)
	L5 ': Position of leading edge of paper	1.2 to 4.0 mm (0.0472 to 0.1575 inches) Length of leading margin when paper is loaded
	L6: Lower edge cutting margin	1.5 mm (0.059 inches)
	BW: Black mark width	More than 5 mm (0.197 inches) from edge of paper; maximum is width of paper W1 from edge of paper
	BL: Black mark length	3 mm (0.12 inches)
	A: Top margin	2.12 mm (0.0835 inches)
	B: Bottom margin	3.2 mm (0.126 inches) * In practice, it is the length of the gap
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more

Die-cut label paper



Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)
Roll core	Inner diameter: 76.2 mm (3 inches)
Outer diameter	203.2 mm (8 inches) or less

	Item	Specification
Other	W1: Liner width	29.4 to 130 mm (1.1575 to 5.12 inches)
	W2: Label width	25.4 to 126 mm (1 to 4.9606 inches)
	W3: Right liner width	2 to 25.4 mm (0.0787 to 1 inch)
	W4: Left liner width	2 to 25.4 mm (0.0787 to 1 inch)
	L1: Label pitch	15.7 to 1330.8 mm (0.618 to 52.3937 inches)
	L2: Label length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L3: Gap between labels	3 to 10 mm (0.12 to 0.3937 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	1.7 mm (0.067 inches)
	L5': Position of leading edge of paper	1.2 to 6.5 mm (0.0472 to 0.2559 inches) Length of leading liner when paper is loaded
	L6: Lower edge cutting margin	1.3 to 8.3 mm (0.051 to 0.3268 inches)
	A: Top margin	2.12 mm (0.0835 inches) or more
	B: Bottom margin	2.12 mm (0.0835 inches) or more
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more



Die-cut label paper (with black marks)

Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)
Roll core	Inner diameter: 76.2 mm (3 inches)
Outer diameter	203.2 mm (8 inches) or less

Item		Specification
Other	W1: Liner width	29.4 to 130 mm (1.1575 to 5.12 inches)
	W2: Label width	25.4 to 126 mm (1 to 4.9606 inches)
	W3: Right liner width	2 to 25.4 mm (0.0787 to 1 inch)
	W4: Left liner width	2 to 25.4 mm (0.0787 to 1 inch)
	L1: Black mark interval	15.7 to 1330.8 mm (0.618 to 52.3937 inches) * The black marks contain carbon.
	L2: Label length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L3: Gap between labels	3 to 10 mm (0.12 to 0.3937 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	1.7 mm (0.067 inches)
	L5': Position of leading edge of paper	1.2 to 4.0 mm (0.0472 to 0.1575 inches) Length of leading margin when paper is loaded
	L6: Lower edge cutting margin	1.3 to 8.3 mm (0.051 to 0.3268 inches)
	BW: Black mark width	More than 5 mm (0.197 inches) from edge of paper; maximum is width of paper W1 from edge of paper
	BL: Black mark length	3 mm (0.12 inches) or more Upper edge is the same as position of leading edge of label
	A: Top margin	2.12 mm (0.0835 inches) or more
	B: Bottom margin	2.12 mm (0.0835 inches) or more
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more

Full sheet labels (normal printing)



Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)
Roll core	Inner diameter: 76.2 mm (3 inches)
Outer diameter	203.2 mm (8 inches) or less

ltem		Specification
Other	W1: Liner width	29.4 to 130 mm (1.1575 to 5.12 inches)
	W2: Label width	25.4 to 126 mm (1 to 4.9606 inches)
	W5: Left liner area (dry edge)	2 to 25.4 mm (0.0787 to 1 inch)
	W6: Right liner area (dry edge)	2 to 25.4 mm (0.0787 to 1 inch)
	L2: Paper length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	2.12 mm (0.0835 inches)
	L6: Lower edge cutting margin	2.12 mm (0.0835 inches) or more
	A: Top margin	2.12 mm (0.0835 inches) or more
	B: Bottom margin	2.12 mm (0.0835 inches) or more
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more



Full-sheet labels (printing on large size paper)

Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)
Roll core	Inner diameter: 76.2 mm (3 inches)
Outer diameter	203.2 mm (8 inches) or less

ltem		Specification
Other	W1: Liner width	29.4 to 130 mm (1.1575 to 5.12 inches)
	W2: Label width	25.4 to 126 mm (1 to 4.9606 inches)
	W5: Left liner area (dry edge)	2 to 25.4 mm (0.0787 to 1 inch)
	W6: Right liner area (dry edge)	2 to 25.4 mm (0.0787 to 1 inch)
	L2: Paper length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	2.12 mm (0.0835 inches)
	L6: Lower edge cutting margin	1.5 mm (0.0591 inches)
	A: Top margin	0 mm (0 inches)
	B: Bottom margin	0 mm (0 inches)
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more



Full-sheet label paper (with black marks)

Item	Specification
Paper weight	0.07 to 0.25 mm (0.003 to 0.0098 inches)
Roll core	Inner diameter: 76.2 mm (3 inches)
Outer diameter	203.2 mm (8 inches) or less

Item		Specification
Other	W1: Liner width	29.4 to 130 mm (1.1575 to 5.12 inches)
	W2: Label width	25.4 to 126 mm (1 to 4.9606 inches)
	W5: Left liner area (dry edge)	2 to 25.4 mm (0.0787 to 1 inch)
	W6: Right liner area (dry edge)	2 to 25.4 mm (0.0787 to 1 inch)
	L1: Black mark interval	15.9 to 1324.0 mm (0.626 to 52.126 inches) * The black marks contain carbon.
	L2: Paper length	12.7 to 1320.8 mm (0.5 to 52 inches)
	L4: Cut size when in cut mode	101.6 mm (4 inches) or more However, if the length of one label is less than 101.6 mm (4 inches), then the shortest length is 101.6 mm (4 inches) as multiple sheets are cut
	L5: Upper edge cutting margin	1.7 mm (0.067 inches)
	L5': Position of leading edge of paper	1.2 to 4.0 mm (0.0472 to 0.1575 inches) Length of leading margin when paper is loaded
	L6: Lower edge cutting margin	1.5 mm (0.0591 inches)
	BW: Black mark width	More than 5 mm (0.197 inches) from edge of paper; maximum is width of paper W1 from edge of paper
	BL: Black mark length	3 mm (0.12 inches)
	A: Top margin	2.12 mm (0.0835 inches) or more
	B: Bottom margin	3.2 mm (0.126 inches) * In practice, it is the length of the gap
	C: Left margin	2.12 mm (0.0835 inches) or more
	D: Right margin	2.12 mm (0.0835 inches) or more