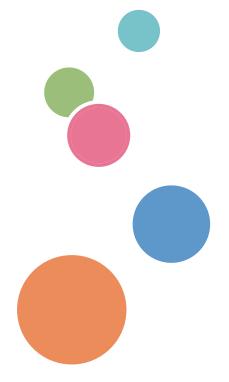
User's Guide

2. Introduction to Your Machine
3. Paper Handling
4. Print
5. Network
6. Security
7. Mobile
8. iPrint&Scan for Mac
9. Troubleshooting
10. Routine Maintenance

1. Before You Use Your Machine



13. Appendix

11. Machine Settings

12. Information for This Machine

▲ Home > Table of Contents

Table of Contents

Before You Use Your Machine	1
Definitions of Notes	2
Trademarks	3
Important Note	4
Introduction to Your Machine	5
Control Panel Overview	6
Access RICOH Utilities (Windows®)	8
Uninstall the Software and Drivers (Windows®)	10
Paper Handling	
Load Paper	
Load and Print Using the Paper Tray	
Load and Print Paper in the Manual Feed Slot	
Paper Settings	22
Change the Paper Size and Paper Type	23
Change the Check Paper Size Setting	24
Unprintable Area	25
Supported Paper	26
Specifications of Paper Sizes	27
Specifications of Paper Types	28
Non-Recommended Paper Types	29
Paper Storage	30
Using Special Paper	31
Print	32
Print from Your Computer (Windows®)	33
Print a Document (Windows®)	34
Print Settings (Windows®)	36
Change the Default Print Settings (Windows®)	
Monitor the Status of the Machine from Your Computer (Windows®)	
Print from Your Computer (Mac)	
Print a Document (Mac)	
Print Options (Mac)	
Monitor the Status of the Machine from Your Computer (Mac)	
Cancel a Print Job	
Test Print	51
Network	52
Supported Basic Network Features	
Network Management Software and Utilities	
Learn about Network Management Software and Utilities	
Additional Methods of Configuring Your Machine for a Wireless Network	
Before Configuring Your Machine for a Wireless Network	
Configure Your Machine for a Wireless Network	
Configure Your Machine for a Wireless Network Using the One Push Method of Wi-F	
Setup [™] (WPS)	EC

▲ Home > Table of Contents

Configure Your Machine for a Wireless Network Using the PIN Method of Wi-Fi Protected Setup™ (WPS)	60
Configure Your Machine for a Wireless Network Using the Machine's Control Panel Setup Wizard	
Configure Your Machine for a Wireless Network When the SSID Is Not Broadcast	
Use Wi-Fi Direct®	67
Advanced Network Features	
Print the Network Configuration Report	
Print the WLAN Report	
Technical Information for Advanced Users	
Reset the Network Settings to the Factory Settings	83
Security	. 84
Lock the Machine Settings	
Setting Lock Overview	
Network Security Features	
Before Using Network Security Features	91
Manage Your Network Machine Securely Using SSL/TLS	92
Send an Email Securely	
Mobile	129
Google Cloud Print	130
Google Cloud Print Overview	131
Before Using Google Cloud Print	132
Print from Google Chrome [™] or Chrome OS [™]	136
Print from Google Drive [™] for Mobile	
Print from Gmail [™] Webmail Service for Mobile	
AirPrint	
AirPrint Overview	
Before Using AirPrint	
Print Using AirPrint	
Mobile Printing for Windows [®]	
Mopria [®] Print Service	
iPrint&Scan for Mac	
iPrint&Scan Overview	
Troubleshooting	
Error and Maintenance Messages	
Paper Jams Paper is Jammed in the Paper Tray	
Paper is Jammed in the Back of the Machine Paper is Jammed inside the Machine	
Paper is Jammed in the 2-sided Tray	
Printing Problems	
Improve the Print Quality	
Network Problems	
Error Messages	
Where Can I Find My Machine's Network Settings?	
I Cannot Complete the Wireless Network Setup Configuration	
My Machine Cannot Print over the Network	

▲ Home > Table of Contents

I Want to Check that My Network Devices are Working Correctly	178
Google Cloud Print Problems	179
AirPrint Problems	180
Other Problems	181
Machine Information	182
Check the Serial Number	183
Check the Firmware Version	184
Reset Functions Overview	185
Reset Your Machine	186
Routine Maintenance	187
Replace Supplies	
Replace the Toner Cartridge	
Replace the Drum Unit	
Clean the Machine	195
Clean the Corona Wire	197
Clean the Drum Unit Using Drum Dot Print	198
Clean the Paper Pick-up Rollers	
Check the Remaining Part Life	
Machine Settings	203
Change Machine Settings from the Control Panel	
General Settings	
Menu Table	
Change Machine Settings from Your Computer	
Change Machine Settings Using Web Based Management	
Information for This Machine	
Information on Environmental Regulations	
ENERGY STAR Program	
Energy Saving Functions	
User Information on Electrical and Electronic Equipment (mainly Europe)	
Note for the Battery and/or Accumulator Symbol (For EU countries only)	
Environmental Advice for Users (mainly Europe)	
Appendix	
Specifications	
How to Enter Text on Your Machine	
Supplies	
Information Regarding Recycled Paper	
Contacting Us	
Contacting Community and the second contact a	

▲ Home > Before You Use Your Machine

Before You Use Your Machine

- Definitions of Notes
- Trademarks
- Important Note

▲ Home > Before You Use Your Machine > Definitions of Notes

Definitions of Notes

We use the following symbols and conventions throughout this User's Guide:

A WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injuries.
▲ CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injuries.
IMPORTANT	IMPORTANT indicates a potentially hazardous situation which, if not avoided, may result in damage to property or loss of product functionality.
NOTE	NOTE specifies the operating environment, conditions for installation, or special conditions of use.
	Tips icons indicate helpful hints and supplementary information.
A	Electrical Hazard icons alert you to possible electrical shock.
	Fire Hazard icons alert you to the possibility of a fire.
	Hot Surface icons warn you not to touch hot machine parts.
8	Keep out of reach of children.
8	Do not use the cleaner.
8	Do not throw into the fire.
8	Do not touch.
®	Do not use flammable substances or any type of spray.
&	Do not use flammable liquids.
Bold	Bold style identifies buttons on the machine's control panel or computer screen.
Italics	Italicised style emphasises an important point or refers you to a related topic.
Courier New	Courier New font identifies messages shown on the machine's LCD.

Related Information

• Before You Use Your Machine

▲ Home > Before You Use Your Machine > Trademarks

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Related Information

· Before You Use Your Machine

▲ Home > Before You Use Your Machine > Important Note

Important Note

- Do not use this product outside the country of purchase as it may violate the wireless telecommunication and power regulations of that country.
- Windows® 10 in this document represents Windows® 10 Home, Windows® 10 Pro, Windows® 10 Education and Windows® 10 Enterprise.
- Windows Server[®] 2008 in this document represents Windows Server[®] 2008 and Windows Server[®] 2008 R2.
- The screens in this User's Guide are for illustration purposes only and may differ from the actual screens.
- Unless otherwise specified, the screens in this manual are from Windows® 7 and macOS v10.11.x. Screens on your computer may vary depending on your operating system.
- The contents of this guide and the specifications of this product are subject to change without notice.
- Not all features are available in countries subject to applicable export restrictions.

Related Information

· Before You Use Your Machine

▲ Home > Introduction to Your Machine

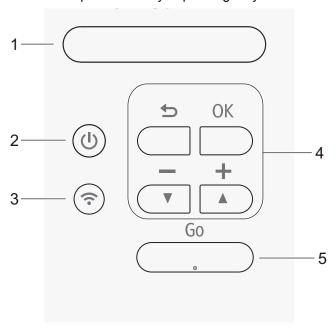
Introduction to Your Machine

- Control Panel Overview
- Access RICOH Utilities (Windows[®])

▲ Home > Introduction to Your Machine > Control Panel Overview

Control Panel Overview

The control panel will vary depending on your model.



1. LCD (Liquid Crystal Display)

Displays messages to help you set up and use your machine.

A four-level indicator shows the wireless signal strength if you are using a wireless connection.



2. (b) Power On/Off Button

- Turn on the machine by pressing (山).
- Turn off the machine by pressing and holding (b). The LCD displays [Shutting Down] for a few seconds before going off.

3. (🖘 WiFi Button

• Press the **WiFi** button and launch the wireless installer on your computer. Follow the on-screen instructions to set up a wireless connection between your machine and your network.

When the **WiFi** light is on, your machine is connected to a wireless access point. When the **WiFi** light blinks, the wireless connection is down, or your machine is in the process of connecting to a wireless access point.

4. Menu Buttons

OK Button

Press to store your machine settings. After you change a setting, the machine returns to the previous menu level.

★ Back Button

- Press to go back one level in the menu.
- Press to select the previous digit when setting numbers.

▲ or **▼** (+ or -)

Press to scroll through menus and options.

• Press to enter a number or to increase or decrease the number. Press and hold down ▲ or ▼ to scroll faster. When you see the number you want, press **OK**.

5. Go Button

- Press to clear certain error messages. To clear all other errors, follow the control panel instructions.
- · Press to print any data remaining in the machine's memory.
- Press to select the displayed option. After you change a setting, the machine returns to Ready mode.
- Press and hold Go for about two seconds to cancel a print job.

Related Information

· Introduction to Your Machine

▲ Home > Introduction to Your Machine > Access RICOH Utilities (Windows®)

Access RICOH Utilities (Windows®)

RICOH Utilities is an application launcher that offers convenient access to all applications of this product installed on your computer.

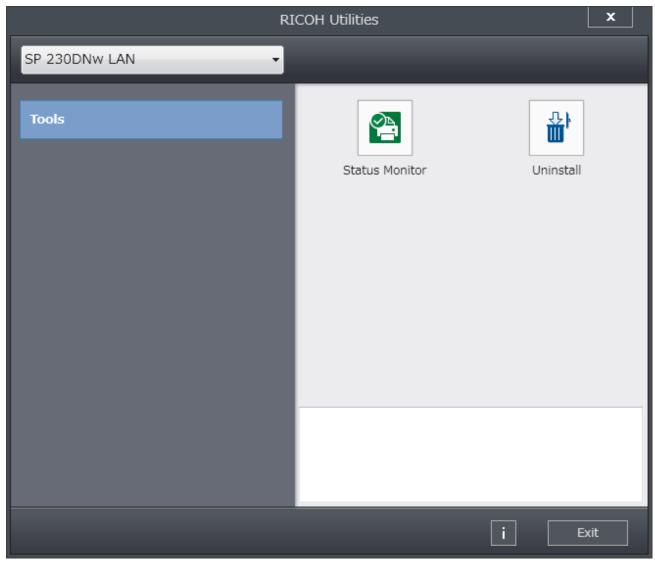
- 1. Do one of the following:
 - (Windows[®] 7, Windows Server[®] 2008 and Windows Server[®] 2008 R2)
 - Click (Start) > All Programs > RICOH > RICOH Utilities.
 - (Windows Server[®] 2012)

Tap or click [RICOH Utilities] either on the Start screen or the desktop.

• (Windows® 8.1 and Windows Server® 2012 R2)

Move your mouse to the lower left corner of the **Start** screen and click (if you are using a touch-based device, swipe up from the bottom of the **Start** screen to bring up the **Apps** screen).

- (Windows[®] 10 and Windows Server[®] 2016)
 - Click = > RICOH > RICOH Utilities.
- 2. Select your machine.



3. Choose the operation you want to use.

4

Related Information

- Introduction to Your Machine
 - Uninstall the Software and Drivers (Windows®)

▲ Home > Introduction to Your Machine > Access RICOH Utilities (Windows®) > Uninstall the Software and Drivers (Windows®)

Uninstall the Software and Drivers (Windows®)

- 1. Do one of the following:
 - (Windows® 7, Windows Server® 2008 and Windows Server® 2008 R2)
 - Click (Start) > All Programs > RICOH > RICOH Utilities.
 - (Windows Server[®] 2012)
 - Tap or click (RICOH Utilities) either on the Start screen or the desktop.
 - (Windows[®] 8.1 and Windows Server[®] 2012 R2)
 - Move your mouse to the lower left corner of the **Start** screen and click (if you are using a touch-based device, swipe up from the bottom of the **Start** screen to bring up the **Apps** screen).
 - When the **Apps** screen appears, tap or click **RICOH Utilities**).
 - (Windows® 10 and Windows Server® 2016)
 - Click = > RICOH > RICOH Utilities.
- 2. Click the drop-down list, and then select your model name (if not already selected). Click **Tools** in the left navigation bar, and then click **Uninstall**.
 - Follow the instructions in the dialog box to uninstall the software and drivers.

Related Information

Access RICOH Utilities (Windows[®])

▲ Home > Paper Handling

Paper Handling

- Load Paper
- Paper Settings
- Unprintable Area
- Supported Paper
- Using Special Paper

▲ Home > Paper Handling > Load Paper

Load Paper

- Load and Print Using the Paper Tray
- Load and Print Paper in the Manual Feed Slot

▲ Home > Paper Handling > Load Paper > Load and Print Using the Paper Tray

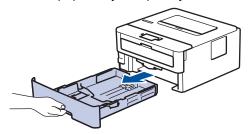
Load and Print Using the Paper Tray

• Load Paper in the Paper Tray

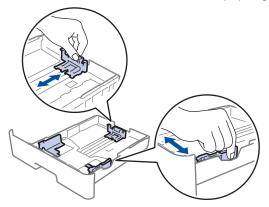
■ Home > Paper Handling > Load Paper > Load and Print Using the Paper Tray > Load Paper in the Paper Tray

Load Paper in the Paper Tray

- If the Check Size setting is set to On and you pull the paper tray out of the machine, a message appears on the LCD asking if you want to change the paper size and paper type. Change the paper size and paper type settings if needed, following the LCD instructions.
- When you load a different size and type of paper in the tray, you must also change the Paper Size and Paper Type settings in the machine, or on your computer.
- 1. Pull the paper tray completely out of the machine.



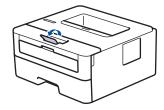
Press and slide the paper guides to fit the paper.Press the release levers to slide the paper guides.



- 3. Fan the stack of paper well.
- 4. Load paper in the paper tray with the printing surface face down.
- Make sure the paper is below the maximum paper mark (▼ ▼ ▼).
 Overfilling the paper tray will cause paper jams.



- 6. Slowly push the paper tray completely into the machine.
- 7. Lift the support flap to prevent paper from sliding off the output tray.



4

Related Information

• Load and Print Using the Paper Tray

▲ Home > Paper Handling > Load Paper > Load and Print Paper in the Manual Feed Slot

Load and Print Paper in the Manual Feed Slot

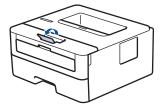
- Load and Print Plain Paper, Thin Paper, Recycled Paper and Bond Paper in the Manual Feed Slot
- Load and Print on Thick Paper and Labels in the Manual Feed Slot
- · Load and Print on Envelopes in the Manual Feed Slot

▲ Home > Paper Handling > Load Paper > Load and Print Paper in the Manual Feed Slot > Load and Print Plain Paper, Thin Paper, Recycled Paper and Bond Paper in the Manual Feed Slot

Load and Print Plain Paper, Thin Paper, Recycled Paper and Bond Paper in the Manual Feed Slot

When you load a different paper size in the tray, you must change the Paper Size setting in the machine or on your computer at the same time.

1. Lift the support flap to prevent paper from sliding off the face down output tray.



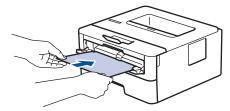
2. Open the manual feed slot cover.



3. Use both hands to slide the manual feed slot paper guides to fit the width of the paper you are using.



4. Using both hands, put one full sheet of paper in the manual feed slot until the front edge touches the paper feed roller. When you feel the machine pull it in, let go.





- Load paper into the manual feed slot with the printing surface facing up.
- Make sure the paper is straight and in the correct position in the manual feed slot. If it is not, the paper may not be fed correctly, resulting in a skewed printout or a paper jam.
- 5. Send your print job to the machine.



Change your print preferences in the Print screen before sending the print job from your computer.

6. After the printed page comes out from the machine, load the next sheet of paper in the manual feed slot. Repeat for each page that you want to print.

✓

Related Information

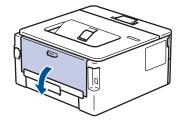
· Load and Print Paper in the Manual Feed Slot

▲ Home > Paper Handling > Load Paper > Load and Print Paper in the Manual Feed Slot > Load and Print on Thick Paper and Labels in the Manual Feed Slot

Load and Print on Thick Paper and Labels in the Manual Feed Slot

When you load a different paper size in the tray, you must change the Paper Size setting in the machine or on your computer at the same time.

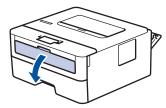
1. Open the machine's back cover (the face up output tray).





The machine automatically turns on Manual Feed mode when you load paper in the manual feed slot.

2. On the front of the machine, open the manual feed slot cover.



3. Use both hands to slide the manual feed slot paper guides to fit the width of the paper that you are using.



4. Using both hands, put one full sheet of paper in the manual feed slot until the front edge touches the paper feed roller. When you feel the machine pull it in, let go.





- · Load paper into the manual feed slot with the printing surface facing up.
- Pull the paper out completely if you must reload the paper into the manual feed slot.
- Do not put more than one sheet of paper in the manual feed slot at one time, as it may cause a jam.
- Make sure the paper is straight and in the correct position in the manual feed slot. If it is not, the paper may not be fed correctly, resulting in a skewed printout or a paper jam.
- 5. Send your print job to the machine.



Change your print preferences in the Print screen before sending the print job from your computer.

- 6. After the printed page comes out from the back of the machine, load the next sheet of paper in the manual feed slot. Repeat for each page that you want to print.
- 7. Close the back cover (the face up output tray) until it locks in the closed position.



Related Information

• Load and Print Paper in the Manual Feed Slot

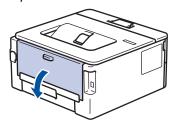
▲ Home > Paper Handling > Load Paper > Load and Print Paper in the Manual Feed Slot > Load and Print on Envelopes in the Manual Feed Slot

Load and Print on Envelopes in the Manual Feed Slot

Before loading, press the corners and sides of the envelopes to make them as flat as possible.

When you load a different paper size in the tray, you must change the Paper Size setting in the machine or on your computer at the same time.

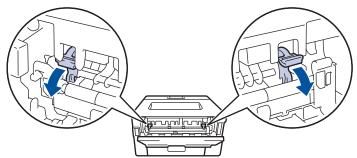
1. Open the machine's back cover (the face up output tray).





The machine automatically turns on Manual Feed mode when you load paper in the manual feed slot.

2. Pull down the two levers, one on the left side and one on the right side, as shown in the illustration.



3. On the front of the machine, open the manual feed slot cover.



4. Use both hands to slide the manual feed slot paper guides to fit the width of the paper that you are using.



5. Using both hands, put one envelope in the manual feed slot until the front edge touches the paper feed roller. When you feel the machine pull it in, let go.





- Load the envelope into the manual feed slot with the printing surface facing up.
- Pull the envelope out completely when you reload the envelope into the manual feed slot.
- Do not put more than one envelope in the manual feed slot at one time, as it may cause a jam.
- Make sure the envelope is straight and in the correct position on the manual feed slot. If it is not, the envelope may not be fed correctly, resulting in a skewed printout or a paper jam.
- 6. Send your print job to the machine.



Change your print preferences in the Print dialog box before sending the print job from your computer.

Settings	Options for Envelopes	
Paper Size	Com-10 DL C5	
	Monarch	
Media Type	Envelopes Env. Thick	
	Env. Thin	

- 7. After the printed envelope comes out of the machine, put in the next envelope. Repeat for each envelope that you want to print.
- 8. When you have finished printing, return the two levers you adjusted in the earlier step back to their original positions.
- 9. Close the back cover (the face up output tray) until it locks in the closed position.



Related Information

· Load and Print Paper in the Manual Feed Slot

▲ Home > Paper Handling > Paper Settings

Paper Settings

- Change the Paper Size and Paper Type
- Change the Check Paper Size Setting

▲ Home > Paper Handling > Paper Settings > Change the Paper Size and Paper Type

Change the Paper Size and Paper Type

When you change the size and type of the paper you load in the tray, you must change the Paper Size and Paper Type settings on the LCD at the same time.

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to display the [Tray Setting] option, and then press OK.
- 3. Press ▲ or ▼ to display the [Paper Type] option, and then press OK.
- 4. Press **△** or **▼** to select the paper type you want, and then press **OK**.
- 5. Press ▲ or ▼ to display the [Paper Size] option, and then press OK.
- 6. Press ▲ or ▼ to select the paper size you want, and then press Go.

Re

Related Information

Paper Settings

▲ Home > Paper Handling > Paper Settings > Change the Check Paper Size Setting

Change the Check Paper Size Setting

When you turn on your machine's Check Size setting, the machine displays a message when you remove a paper tray, asking if you changed the paper size and paper type.

The default setting is On.

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Tray Setting] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Check Size] option, and then press OK.
- 4. Press ▲ or ▼ to select the [On] or [Off] option, and then press Go.

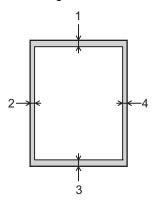
Related Information

Paper Settings

▲ Home > Paper Handling > Unprintable Area

Unprintable Area

The measurements in the table below show maximum unprintable areas from the edges of the most commonlyused paper sizes. The measurements may vary depending on the paper size or settings in the application you are using.





Do not attempt to print into these areas; your output will not reflect anything in these areas.

Usage		Top (1) Bottom (3)	Left (2) Right (4)
Print	Letter	4.23 mm	4.23 mm
	A4	4.23 mm	4.23 mm
	Legal	4.23 mm	4.23 mm

Related Information

· Paper Handling

▲ Home > Paper Handling > Supported Paper

Supported Paper

When loading custom size paper, specify the width and length using the control panel and the printer driver.

- Specifications of Paper Sizes
- · Specifications of Paper Types
- Non-Recommended Paper Types
- Paper Storage

▲ Home > Paper Handling > Supported Paper > Specifications of Paper Sizes

Specifications of Paper Sizes

	Size
Printable from Paper Tray	A4, Letter, Executive, A5, A5 (Long Edge), A6
Printable from Manual Feed Slot	A4, Letter, Legal, Executive, A5, A5 (Long Edge), A6, B5 (ISO), Folio, Mexico Legal, India Legal, 3 x 5
Printable from Manual Feed Slot (Envelope)	Com-10, DL, C5, Monarch
Printable from Manual Feed Slot (Custom Size)	Custom size: 76.2 to 216 mm in width, 127 to 355.6 mm in length

✓

Related Information

• Supported Paper

▲ Home > Paper Handling > Supported Paper > Specifications of Paper Types

Specifications of Paper Types

The following tables describe the types of paper that can be used with this machine.

- Depending on the paper type, the toner may take a while to dry. Before handling printed sheets, make sure that they have fully dried. Otherwise, the toner may smudge.
- Print quality can be guaranteed only if recommended paper is used. For more information about the recommended paper, contact your sales or service representative.

Туре	Paper Thickness (Weight)	Supported paper tray	Supported Duplex
Plain Paper	75 to 105 g/m ²	Paper Tray and Manual Feed Slot	Duplex Print
Thin Paper	60 to 75 g/m ²	Paper Tray and Manual Feed Slot	Duplex Print
Thick Paper	105 to 163 g/m ²	Paper Tray and Manual Feed Slot	N/A
Thicker Paper	163 to 230 g/m ²	Manual Feed Slot	N/A
Recycled		Paper Tray and Manual Feed Slot	Duplex Print
Bond Paper		Manual Feed Slot	N/A
Label		Manual Feed Slot	N/A
Envelope		Manual Feed Slot	N/A
Env.Thick		Manual Feed Slot	N/A
Env.Thin		Manual Feed Slot	N/A



Related Information

Supported Paper

▲ Home > Paper Handling > Supported Paper > Non-Recommended Paper Types

Non-Recommended Paper Types

Do not use the following types of paper:

- Ink-jet printer paper
- Bent, folded, or creased paper
- Curled or twisted paper
- · Torn paper
- Wrinkled paper
- · Damp paper
- · Dirty or damaged paper
- · Paper that is dry enough to emit static electricity
- Paper that has already been printed onto, except a preprinted letterhead paper. Malfunctions are especially likely when using paper printed on by other than a laser printer (e.g.monochrome and colour copiers, ink-jet printers, etc.)
- Special paper, such as thermal paper and carbon paper
- Paper weighing heavier or lighter than the limit
- · Paper with windows, holes, perforations, cutouts, or embossing
- Adhesive label paper on which glue or base paper is exposed
- · Paper with clips or staples
- When loading paper, take care not to touch the surface of the paper.
- Even if paper is adequate for the machine, poorly stored paper can cause paper misfeeds, print quality degradation, or malfunctions.

✓

Related Information

Supported Paper

▲ Home > Paper Handling > Supported Paper > Paper Storage

Paper Storage

Store paper appropriately. If the paper is stored incorrectly, misfeeds, lower printing quality, or malfunctions may result.

When storing paper:

- Do not store paper in a humid place.
- · Do not store paper in direct sunlight.
- Do not stand paper on its edge.
- Store any leftover paper in a wrapping or box supplied with the paper.

Related Information

Supported Paper

▲ Home > Paper Handling > Using Special Paper

Using Special Paper

Always test paper samples before purchasing them to ensure desirable performance.

- DO NOT use inkjet paper; it may cause a paper jam or damage your machine.
- If you use bond paper, paper with a rough surface, or paper that is wrinkled or creased, the paper may exhibit degraded performance.

Store paper in its original packaging and keep it sealed. Keep the paper flat and away from moisture, direct sunlight and heat.

IMPORTANT

Some types of paper may not perform well or may cause damage to your machine.

DO NOT use paper:

- · that is highly textured
- · that is extremely smooth or shiny
- · that is curled or warped
- · that is coated or has a chemical finish
- that is damaged, creased or folded
- · that exceeds the recommended weight specification in this guide
- with tabs and staples
- with letterheads using low temperature dyes or thermography
- · that is multipart or carbonless
- · that is designed for inkjet printing

If you use any of the types of paper listed above, they may damage your machine. This damage is not covered under any warranty or service agreement.

4

Related Information

Paper Handling

▲ Home > Print

Print

- Print from Your Computer (Windows®)
- Print from Your Computer (Mac)
- Cancel a Print Job
- Test Print

▲ Home > Print > Print from Your Computer (Windows®)

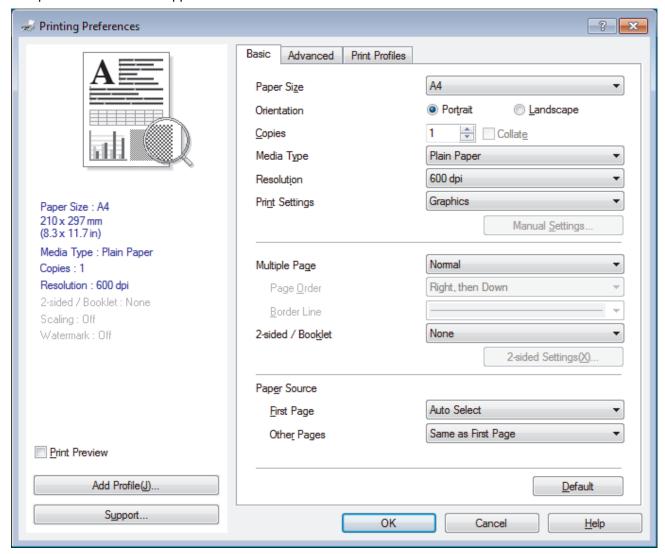
Print from Your Computer (Windows®)

- Print a Document (Windows[®])
- Print Settings (Windows®)
- Change the Default Print Settings (Windows®)
- Monitor the Status of the Machine from Your Computer (Windows®)

▲ Home > Print > Print from Your Computer (Windows®) > Print a Document (Windows®)

Print a Document (Windows®)

- 1. Select the print command in your application.
- 2. Select **RICOH SP 230DNw**, and then click the printing properties or preferences button. The printer driver window appears.



- 3. Make sure you have loaded the correct size paper in the paper tray.
- 4. Click the Paper Size drop-down list, and then select your paper size.
- 5. In the **Orientation** field, select the **Portrait** or **Landscape** option to set the orientation of your printout.



If your application contains a similar setting, we recommend that you set the orientation using the application.

- 6. Type the number of copies (1-999) you want in the **Copies** field.
- 7. Click the **Media Type** drop-down list, and then select the type of paper you are using.
- 8. To print multiple pages on a single sheet of paper or print one page of your document on multiple sheets, click the **Multiple Page** drop-down list, and then select your options.
- 9. Change other printer settings if needed.
- 10. Click **OK**.
- 11. Complete your print operation.

Rel

Related Information

- Print from Your Computer (Windows $^{\!(\!n\!)}\!$

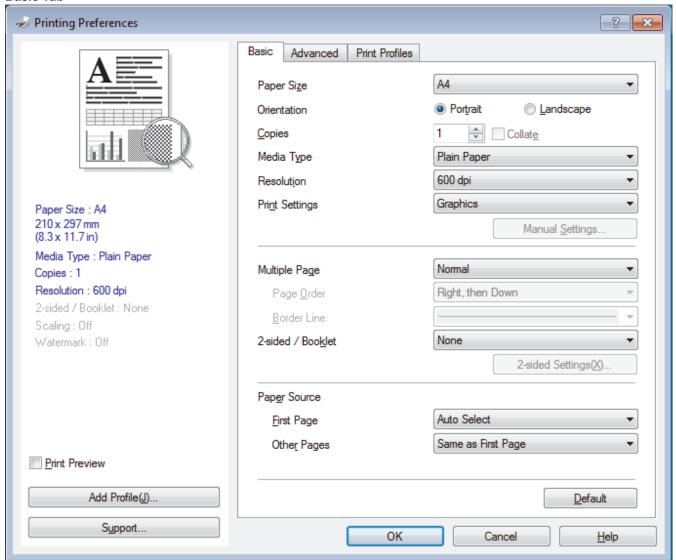
Related Topics

• Print Settings (Windows®)

▲ Home > Print > Print from Your Computer (Windows®) > Print Settings (Windows®)

Print Settings (Windows®)

Basic Tab



1. Paper Size

Select the size of the paper you want to use. You can either choose from standard paper sizes or create a custom paper size.

2. Orientation

Select the orientation (portrait or landscape) of your printout.

If your application contains a similar setting, we recommend that you set the orientation using the application.

3. Copies

Type the number of copies (1-999) that you want to print in this field.

Collate

Select this option to print sets of multi-page documents in the original page order. When this option is selected, one complete copy of your document will print, and then reprint according to the number of copies you choose. If this option is not selected, then each page will print according to the number of copies chosen before the next page of the document is printed.

4. Media Type

Select the type of media you want to use. To achieve the best print results, the machine automatically adjusts its print settings according to the selected media type.

5. Resolution

Select the print resolution. As print resolution and speed are related, the higher the resolution, the longer it will take to print the document.

6. Print Settings

Select the type of document you want to print.

Manual Settings...

Specify advanced settings such as brightness, contrast, and other settings.

Graphics

Use Printer Halftone

Select this option to use the printer driver to express halftones.

Brightness

Specify the brightness.

Contrast

Specify the contrast.

Graphics Quality

Select either Graphics or Text for the best print quality, based on the type of document you are printing.

Improve Grey Printing

Select this option to improve the image quality of shaded areas.

Improve Pattern Printing

Select this option to improve the pattern printing if printed fills and patterns are different from the fills and patterns you see on your computer screen.

Improve Thin Line

Select this option to improve the image quality of thin lines.

Use System Halftone

Select this option to use Windows® to express halftones.

7. Multiple Page

Select this option to print multiple pages on a single sheet of paper or print one page of your document on multiple sheets.

Page Order

Select the page order when printing multiple pages on a single sheet of paper.

Border Line

Select the type of border to use when printing multiple pages on a single sheet of paper.

8. 2-sided / Booklet

Select this option to print on both sides of the paper or print a document in booklet format using 2-sided printing.

2-sided Settings button

Click this button to select the type of 2-sided binding. Four types of 2-sided bindings are available for each orientation.

9. Paper Source

Select the paper source setting according to your print conditions or purpose.

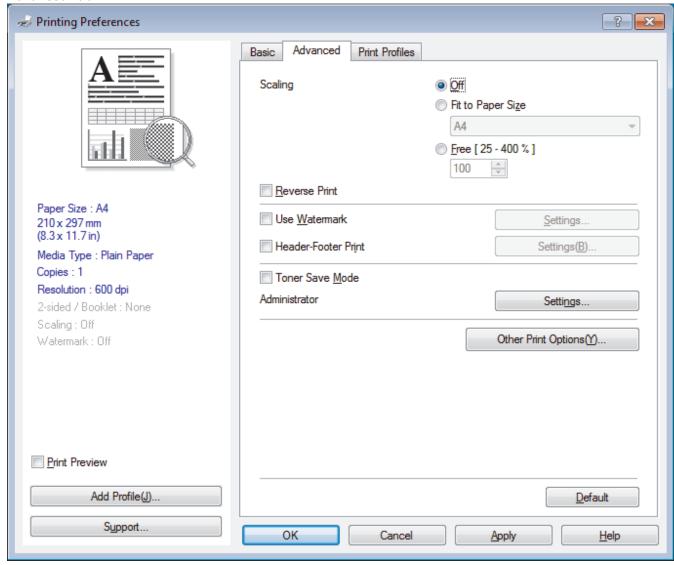
First Page

Select the paper source to use for printing the first page.

Other Pages

Select the paper source to use for printing the second and subsequent pages.

Advanced Tab



1. Scaling

Select these options to enlarge or reduce the size of the pages in your document.

Fit to Paper Size

Select this option to enlarge or reduce the document pages to fit a specified paper size. When you select this option, select the paper size you want from the drop-down list.

Free [25 - 400%]

Select this option to enlarge or reduce the document pages manually. When you select this option, type a value into the field.

2. Reverse Print

Select this option to rotate the printed image 180 degrees.

3. Use Watermark

Select this option to print a logo or text on your document as a watermark. Select one of the preset watermarks, add a new watermark, or use an image file you have created.

4. Header-Footer Print

Select this option to print the date, time and PC login user name on the document.

5. Toner Save Mode

Select this feature to conserve toner by using less toner to print documents; printouts appear lighter, but are still legible.

6. Administrator

This feature allows you to change the administrator password and restrict various printing functions.

7. Other Print Options button

Sleep Time

Select this option to set the machine to enter sleep mode immediately after printing.

Density Adjustment

Specify the print density.

Improve Print Output

Select this option to reduce the amount of paper curling and improve the toner fixing.

Skip Blank Page

Select this option to allow the printer driver to automatically detect blank pages and exclude them from printing.

Print Text in Black

Select this option when you want to print colour text in black.

Print Archive

Select this option to save the print data as a PDF file to your computer.

Eco settings

Select this option to reduce printing noise.

Related Information

Print from Your Computer (Windows[®])

Related Topics

Print a Document (Windows[®])

▲ Home > Print > Print from Your Computer (Windows®) > Change the Default Print Settings (Windows®)

Change the Default Print Settings (Windows®)

When you change an application's print settings, the changes only apply to documents printed with that application. To change print settings for all Windows[®] applications, you must configure the printer driver properties.

- 1. Do one of the following:
 - For Windows Server[®] 2008
 - Click (Start) > Control Panel > Hardware and Sound > Printers.
 - For Windows[®] 7 and Windows Server[®] 2008 R2
 - Click (Start) > Devices and Printers.
 - For Windows[®] 8.1

Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings**, and then click **Control Panel**. In the **Hardware and Sound** group, click **View devices and printers**.

- For Windows[®] 10 and Windows Server[®] 2016
 - Click > Windows System > Control Panel. In the Hardware and Sound group, click View devices and printers.
- For Windows Server[®] 2012
 - Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings**, and then click **Control Panel**. In the **Hardware** group, click **View devices and printers**.
- For Windows Server[®] 2012 R2
 Click Control Panel on the Start screen. In the Hardware group, click View devices and printers.
- 2. Right-click the **RICOH SP 230DNw** icon, and then select **Printer properties**. If printer driver options appear, select your printer driver.
- 3. Click the **General** tab, and then click the **Printing Preferences...** or **Preferences...** button. The printer driver dialog box appears.



- To configure the tray settings, click the Device Settings tab(Available only for certain models).
- To change the printer port, click the Ports tab.
- 4. Select the print settings you want to use as defaults for all of your Windows® programs.
- 5. Click OK.
- 6. Close the printer properties dialog box.



Related Information

• Print from Your Computer (Windows®)

■ Home > Print > Print from Your Computer (Windows[®]) > Monitor the Status of the Machine from Your Computer (Windows[®])

Monitor the Status of the Machine from Your Computer (Windows®)

The Status Monitor utility is a configurable software tool for monitoring the status of one or more devices, allowing you to get immediate notification of errors.

- · Do one of the following:
 - Double-click the icon in the task tray.
 - (Windows[®] 7, Windows Server[®] 2008 and Windows Server[®] 2008 R2)
 Click (Start) > All Programs > RICOH > RICOH Utilities.

Click the drop-down list and select your model name (if not already selected). Click **Tools** in the left navigation bar, and then click **Status Monitor**.

- (Windows Server® 2012)

 Click (RICOH Utilities), and then click the drop-down list and select your model name (if not already selected). Click Tools in the left navigation bar, and then click Status Monitor.
- (Windows® 8.1 and Windows Server® 2012 R2)
 - Move your mouse to the lower left corner of the **Start** screen and click (if you are using a touch-based device, swipe up from bottom of the **Start** screen to bring up the **Apps** screen). When the **Apps** screen appears, tap or click (RICOH Utilities), and then click the drop-down list and select your model name (if not already selected). Click **Tools** in the left navigation bar, and then click **Status Monitor**.
- (Windows[®] 10 and Windows Server[®] 2016)
 Click > RICOH > RICOH Utilities.

Click the drop-down list and select your model name (if not already selected). Click **Tools** in the left navigation bar, and then click **Status Monitor**.

Related Information

Print from Your Computer (Windows®)

Related Topics

· Printing Problems

▲ Home > Print > Print from Your Computer (Mac)

Print from Your Computer (Mac)

- Print a Document (Mac)
- Print Options (Mac)
- Monitor the Status of the Machine from Your Computer (Mac)

▲ Home > Print > Print from Your Computer (Mac) > Print a Document (Mac)

Print a Document (Mac)

- 1. Make sure you have loaded the correct size paper in the paper tray.
- 2. From an application, such as Apple TextEdit, click the File menu, and then select Print.
- 3. Select RICOH SP 230DNw.



For more page setup options, click the **Show Details** button.

- 4. Type the number of copies you want in the Copies field.
- 5. Click the Paper Size pop-up menu, and then select your paper size.
- 6. Select the Orientation option that matches the way you want the document to print.
- 7. Click the application pop-up menu, and then select ${\bf Print\ Settings}.$

The **Print Settings** options appear.

- 8. Click the Media Type pop-up menu, and then select the type of paper you are using.
- 9. Change other printer settings, if needed.
- 10. Click Print.

✓

Related Information

Print from Your Computer (Mac)

Related Topics

• Print Options (Mac)

▲ Home > Print > Print from Your Computer (Mac) > Print Options (Mac)

Print Options (Mac)

1. Paper Size

Select the size of the paper you want to use. You can either choose from standard paper sizes or create a custom paper size.

2. Orientation

Select the orientation (portrait or landscape) of your printout.

If your application contains a similar setting, we recommend that you set the orientation using the application.

3. Scale

Type a value into the field to enlarge or reduce the pages in your document to fit the selected paper size.

Layout Printer: **RICOH SP 230DNw** Presets: **Default Settings** Copies: 1 Two-Sided Pages: O All From: 1 to: 1 Paper Size: **A4** 210 by 297 mm Orientation: Layout Pages per Sheet: **Layout Direction:** 1 of 1 Border: None Two-Sided: Off Reverse page orientation Flip horizontally ? PDF V **Hide Details** Print Cancel

1. Pages per Sheet

Select the number of pages to print on a single sheet of paper.

2. Layout Direction

Select the page order when printing multiple pages on a single sheet of paper.

3. Border

Select the type of border to use when printing multiple pages on a single sheet of paper.

4. Two-Sided

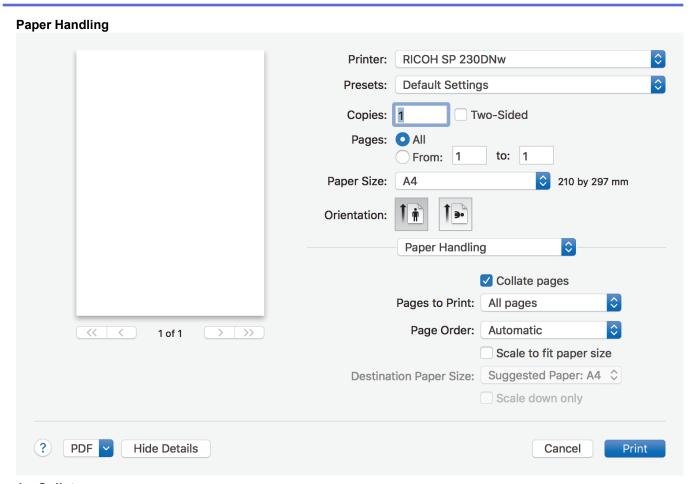
Select whether to print on both sides of the paper.

5. Reverse page orientation

Select this option to rotate the printed image 180 degrees.

6. Flip horizontally

Select this option to reverse the printed image on the page horizontally from left to right.



1. Collate pages

Select this option to print sets of multi-page documents in the original page order. When this option is selected, one complete copy of your document will print, and then reprint according to the number of copies you choose. If this option is not selected, then each page will print according to the number of copies chosen before the next page of the document is printed.

2. Pages to Print

Select which pages you want to print (even pages or odd pages).

3. Page Order

Select the page order.

4. Scale to fit paper size

Select this option to enlarge or reduce the pages in your document to fit the selected paper size.

5. Destination Paper Size

Select the paper size to print on.

6. Scale down only

Select this option if you want to reduce the pages in your document when they are too large for the selected paper size. If this option is selected and the document is formatted for a paper size that is smaller than the paper size you are using, the document will be printed at its original size.

Print Settings **RICOH SP 230DNw** Printer: Presets: **Default Settings** Two-Sided Copies: O All Pages: to: 1 From: 1 Paper Size: 210 by 297 mm **A4** Orientation: \$ **Print Settings \$** Media Type: Plain Paper Print Quality: 600 dpi 1 of 1 Paper Source: Auto Select Advanced PDF 🔽 **Hide Details** Cancel **Print**

1. Media Type

Select the type of media you want to use. To achieve the best print results, the machine automatically adjusts its print settings according to the selected media type.

2. Print Quality

Select the print resolution you want. Because print quality and speed are related, the higher the quality, the longer it will take to print the document.

3. Paper Source

Select the paper source setting according to your print conditions or purpose.

4. Advanced

Toner Save Mode

Select this feature to conserve toner by using less toner to print documents; printouts appear lighter, but are still legible.

Graphics Quality

Select either Graphics or Text for the best print quality, based on the type of document you are printing.

Improve Print Output

Select this option to reduce the amount of paper curling and improve the toner fixing.

Density Adjustment

Specify the print density.

Sleep Time

Specify the amount of time that passes before the machine enters Sleep Mode.

Quiet Mode

Select this option to reduce printing noise.

Other Print Options

Skip Blank Page

Select this option to allow the printer driver to automatically detect blank pages and exclude them from printing.

Related Information

• Print from Your Computer (Mac)

Related Topics

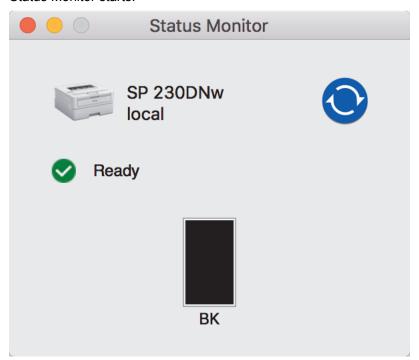
• Print a Document (Mac)

■ Home > Print > Print from Your Computer (Mac) > Monitor the Status of the Machine from Your Computer (Mac)

Monitor the Status of the Machine from Your Computer (Mac)

The Status Monitor utility is a configurable software tool for monitoring the status of a device, allowing you to get immediate notification of error messages, such as paper empty or paper jam, at preset update intervals. You can also access Web Based Management.

- Click the System Preferences menu, select Print & Scan or Printers & Scanners, and then select your machine.
- 2. Click the Options & Supplies button.
- Click the **Utility** tab, and then click the **Open Printer Utility** button.Status Monitor starts.



Updating the machine's status

To view the latest machine status while the **Status Monitor** window is open, click the oicon. You can set the interval at which the software updates machine status information. Click **Status Monitor** in the menu bar, and then select **Preferences**.

Web Based Management (Network Connection Only)

Access the Web Based Management System by clicking the machine icon on the **Status Monitor** screen. You can use a standard Web Browser to manage your machine using HTTP (Hyper Text Transfer Protocol).

Related Information

Print from Your Computer (Mac)

Related Topics

· Printing Problems

▲ Home > Print > Cancel a Print Job

Cancel a Print Job

1. On the machine's control panel, press and hold **Go** for about two seconds to cancel the current print job.



To cancel multiple print jobs, press and hold **Go** for six seconds.



Related Information

• Print

Related Topics

• Printing Problems

▲ Home > Print > Test Print

Test Print

If there are problems with print quality, follow these instructions to do a test print:

- 1. Press ▲ or ▼ to display the [Printer] option, and then press OK.
- 2. Press \blacktriangle or \blacktriangledown to display the [Test Print] option, and then press Go.

The machine prints the test page.



Related Information

• Print

Related Topics

• Improve the Print Quality

▲ Home > Network

Network

- Supported Basic Network Features
- Network Management Software and Utilities
- Additional Methods of Configuring Your Machine for a Wireless Network
- Advanced Network Features
- Technical Information for Advanced Users

▲ Home > Network > Supported Basic Network Features

Supported Basic Network Features

The print server supports various features depending on the operating system. Use this table to see which network features and connections are supported by each operating system.

Operating Systems	Windows [®] 7 Windows [®] 8.1 Windows [®] 10	Windows Server [®] 2008/2008 R2/2012/2012 R2/2016	macOS v10.11.x macOS v10.12.x macOS v10.13.x
Printing	Yes	Yes	Yes
BRAdmin Light	Yes	Yes	
Web Based Management	Yes	Yes	Yes
Status Monitor	Yes		Yes
Vertical Pairing	Yes		



• To download the latest version of BRAdmin Light, go to the website at www.ricoh.com/support/.



Related Information

Network

▲ Home > Network > Network Management Software and Utilities

Network Management Software and Utilities

Configure and change your machine's network settings using a management utility.

- · Learn about Network Management Software and Utilities
- Change Machine Settings from Your Computer
- · Change Machine Settings Using Web Based Management

▲ Home > Network > Network Management Software and Utilities > Learn about Network Management Software and Utilities

Learn about Network Management Software and Utilities

Web Based Management

Web Based Management is a utility that uses a standard web browser to manage your machine using the Hyper Text Transfer Protocol (HTTP) or Hyper Text Transfer Protocol over Secure Socket Layer (HTTPS). Type your machine's IP address into your web browser to access and change your print server settings.

BRAdmin Light (Windows®)

BRAdmin Light is a utility for the initial setup of network-connected devices. This utility can search for our products on your network, view the status and configure the basic network settings, such as IP address.

To download the BRAdmin Light, go to the website at www.ricoh.com/support/.



 If using Windows[®] Firewall, or the firewall function of an anti-spyware or antivirus application, temporarily disable them. When you are sure you can print, configure the software settings following the instructions.

Related Information

· Network Management Software and Utilities

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network

Additional Methods of Configuring Your Machine for a Wireless Network

To connect your machine to your wireless network, we recommend using the installation disc.

- Before Configuring Your Machine for a Wireless Network
- Configure Your Machine for a Wireless Network
- Configure Your Machine for a Wireless Network Using the One Push Method of Wi-Fi Protected Setup[™] (WPS)
- Configure Your Machine for a Wireless Network Using the PIN Method of Wi-Fi Protected Setup[™] (WPS)
- Configure Your Machine for a Wireless Network Using the Machine's Control Panel Setup Wizard
- Configure Your Machine for a Wireless Network When the SSID Is Not Broadcast
- Use Wi-Fi Direct[®]

■ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Before Configuring Your Machine for a Wireless Network

Before Configuring Your Machine for a Wireless Network

Before attempting to configure a wireless network, confirm the following:

- To achieve optimum results with normal everyday document printing, place the machine as close to the
 wireless LAN access point/router as possible with minimal obstructions. Large objects and walls between the
 two devices and interference from other electronic devices can affect the data transfer speed of your
 documents.
 - Due to these factors, wireless may not be the best method of connection for all types of documents and applications. If you are printing large files, such as multi-page documents with mixed text and large graphics, you may want to consider selecting wired Ethernet for faster data transfer (supported models only), or USB for the fastest throughput speed.
- Although the machine can be used in both a wired and wireless network, only one connection method can be used at a time. However, a wireless network connection and Wi-Fi Direct[®] connection, or a wired network connection and Wi-Fi Direct[®] connection can be used at the same time.



If you do not know the security information, please consult the router manufacturer, your system administrator, or your Internet provider.



Related Information

Additional Methods of Configuring Your Machine for a Wireless Network

■ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Configure Your Machine for a Wireless Network

Configure Your Machine for a Wireless Network

- 1. Turn on your computer and insert the installation disc into your computer.
 - For Windows[®], follow these instructions:
 - For Mac, click **Driver Download** to go to the website at www.ricoh.com/support/. Follow the on-screen instructions to install printer drivers.
- 2. The opening screen appears automatically.

Choose your language, and then follow the on-screen instructions.



If the opening screen does not appear, do the following:

- (Windows[®] 7)
 - Go to Computer. Double-click the CD/DVD icon, and then double-click start.exe.
- (Windows[®] 8.1 and Windows[®] 10)
 - Click the **[Second File Explorer**) icon on the taskbar, and then go to **Computer** (**This PC**). Double-click the CD/DVD icon, and then double-click **start.exe**.
- If the User Account Control screen appears, click Yes.
- 3. Choose Wireless Network Connection (Wi-Fi), and then click Next.
- 4. Follow the on-screen instructions.

You have completed the wireless network setup. To install **Full Driver & Software Package** necessary for operating your device, insert the installation disc into your computer or go to the website at www.ricoh.com/support/.



Related Information

Additional Methods of Configuring Your Machine for a Wireless Network

Configure Your Machine for a Wireless Network Using the One Push Method of Wi-Fi Protected Setup[™] (WPS)

If your wireless access point/router supports WPS (PBC: Push Button Configuration), you can use WPS from your machine's control panel menu to configure your wireless network settings.



Routers or access points that support WPS are marked with this symbol:



- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [WLAN] option, and then press OK.
- 3. Press ▲ or ▼ to select the [WPS] option, and then press **OK**.
- When [WLAN Enable?] appears, press ▼ to select On.
 This will start the wireless setup wizard. To cancel, press ▲.
- 5. When the LCD displays [Press Key on rtr], press the WPS button on your wireless access point/router. Press ▲ on the machine's control panel. Your machine will automatically detect your wireless access point/router and try to connect to your wireless network.

If your wireless device is connected successfully, the machine's LCD displays [Connected].

You have completed the wireless network setup. To install **Full Driver & Software Package** necessary for operating your device, insert the installation disc into your computer or go to the website at www.ricoh.com/support/.

✓

Related Information

Additional Methods of Configuring Your Machine for a Wireless Network

Related Topics

· Wireless LAN Report Error Codes

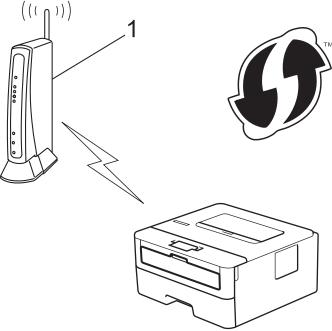
Configure Your Machine for a Wireless Network Using the PIN Method of Wi-Fi Protected Setup[™] (WPS)

If your wireless LAN access point/router supports WPS, you can use the Personal Identification Number (PIN) Method to configure your wireless network settings.

The PIN Method is one of the connection methods developed by the Wi-Fi Alliance[®]. By submitting a PIN created by an Enrollee (your machine) to the Registrar (a device that manages the wireless LAN), you can set up the wireless network and security settings. For more information on how to access WPS mode, see the instructions provided with your wireless access point/router.

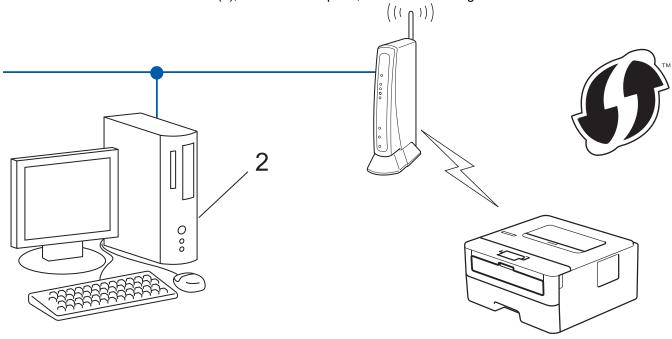
Type A

Connection when the wireless LAN access point/router (1) doubles as the Registrar:



Type B

Connection when another device (2), such as a computer, is used as the Registrar:





Routers or access points that support WPS are marked with this symbol:



- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [WLAN] option, and then press OK.
- 3. Press ▲ or ▼ to select the [WPS w/PIN Code] option, and then press OK.
- 4. When [WLAN Enable?] appears, press ▼ to select On.

This will start the wireless setup wizard. To cancel, press ▲.

- 5. The LCD displays an eight-digit PIN and the machine starts searching for a wireless LAN access point/router.
- 6. Using a computer connected to the network, in your browser's address bar, type the IP address of the device you are using as the Registrar. (For example: http://192.168.1.2)
- 7. Go to the WPS settings page and type the PIN, and then follow the on-screen instructions.



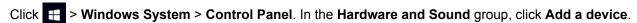
- The Registrar is usually the wireless LAN access point/router.
- The settings page will differ depending on the brand of wireless LAN access point/router. For more information, see the instructions supplied with your wireless LAN access point/router.

If you are using a Windows[®] 7, Windows[®] 8.1, or Windows[®] 10 computer as a Registrar, complete the following steps:

- 8. Do one of the following:
 - Windows[®] 7
 - Click (Start) > Devices and Printers > Add a device.
 - Windows[®] 8.1

Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings > Control Panel > Hardware and Sound > View devices and printers > Add a device**.

Windows[®] 10





- To use a Windows[®] 7, Windows[®] 8.1, or Windows[®] 10 computer as a Registrar, you must register it to your network in advance. For more information, see the instructions supplied with your wireless LAN access point/router.
- If you use Windows® 7, Windows® 8.1, or Windows® 10 as a Registrar, you can install the printer driver after the wireless configuration by following the on-screen instructions. To install the full driver and software package, use the installation disc.
- 9. Select your machine and click Next.
- 10. Type the PIN displayed on the machine's LCD, and then click Next.
- 11. (Windows® 7) Select your network, and then click Next.
- 12. Click Close.

If your wireless device is connected successfully, the machine's LCD displays [Connected].

You have completed the wireless network setup. To install **Full Driver & Software Package** necessary for operating your device, insert the installation disc into your computer or go to the website at www.ricoh.com/support/.



Related Information

• Additional Methods of Configuring Your Machine for a Wireless Network

Related Topics

• Wireless LAN Report Error Codes

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Configure Your Machine for a Wireless Network Using the Machine's Control Panel Setup Wizard

Configure Your Machine for a Wireless Network Using the Machine's Control Panel Setup Wizard

Before configuring your machine, we recommend writing down your wireless network settings. You will need this information before you continue with the configuration.

1. Check and record the current wireless network settings of the computer to which you are connecting.

Network Name (SSID)			
Network Key			
For example:			
For example: Network Name (SSID)			
<u> </u>			
Network Name (SSID)			



- Your access point/router may support the use of multiple WEP keys, however your machine supports
 the use of the first WEP key only.
- If you need assistance during setup and want to contact your service representative, make sure you
 have your SSID (Network Name) and Network Key ready. We cannot assist you in locating this
 information.
- If you do not know this information (SSID and Network Key), you cannot continue the wireless setup.

How can I find this information?

- Check the documentation provided with your wireless access point/router.
- The initial SSID could be the manufacturer's name or the model name.
- If you do not know the security information, please consult the router manufacturer, your system administrator, or your Internet provider.
- 2. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 3. Press ▲ or ▼ to select the [WLAN] option, and then press OK.
- Press ▲ or ▼ to select the [Setup Wizard] option, and then press OK.
- 5. When [WLAN Enable?] appears, press ▼ to select On.

This will start the wireless setup wizard. To cancel, press ▲.

- 6. The machine will search for your network and display a list of available SSIDs. When a list of SSIDs appears, press ▲ or ▼ to select the SSID you want.
- 7. Press OK.
- 8. Do one of the following:
 - If you are using an authentication and encryption method that requires a Network Key, enter the Network Key you wrote down in the first step.

Enter the key, and then press **OK** to apply your settings.

To apply the settings, press ▼. To cancel, press ▲.

- If your authentication method is Open System and your encryption mode is None, go to the next step.
- 9. The machine attempts to connect to the wireless device you have selected.

If your wireless device is connected successfully, the machine's LCD displays $[{\tt Connected}]$.

You have completed the wireless network setup. To install **Full Driver & Software Package** necessary for operating your device, insert the installation disc into your computer or go to the website at www.ricoh.com/support/.



Related Information

Additional Methods of Configuring Your Machine for a Wireless Network

Related Topics

- · How to Enter Text on Your Machine
- · Wireless LAN Report Error Codes

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Configure Your Machine for a Wireless Network When the SSID Is Not Broadcast

Configure Your Machine for a Wireless Network When the SSID Is Not Broadcast

Before configuring your machine, we recommend writing down your wireless network settings. You will need this information before you continue with the configuration.

1. Check and write down the current wireless network settings.

Network	Name	(SSID)
---------	------	--------

Communication Mode	Authentication Method	Encryption Mode	Network Key
Infrastructure	Open System	NONE	-
		WEP	
	Shared Key	WEP	
	WPA/WPA2-PSK	AES	
		TKIP	

For example:

Network Name (SS	SID)
------------------	------

HELLO

Communication Mode	Authentication Method	Encryption Mode	Network Key
Infrastructure	WPA2-PSK	AES	12345678



If your router uses WEP encryption, enter the key used as the first WEP key. Your machine supports the use of the first WEP key only.

- 2. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 3. Press ▲ or ▼ to select the [WLAN] option, and then press OK.
- 4. Press ▲ or ▼ to select the [Setup Wizard] option, and then press OK.
- 5. When [WLAN Enable?] appears, press ▼ to select On.

This will start the wireless setup wizard. To cancel, press ▲.

- 6. The machine will search for your network and display a list of available SSIDs. Press ▲ or ▼ to select the [<New SSID>] option, and then press **OK**.
- 7. Enter the SSID name, and then press **OK**.
- 8. Select the [Infrastructure] option, and then press OK.
- 9. Press ▲ or ▼ to select the Authentication Method you want, and then press **OK**.
- 10. Do one of the following:
 - If you selected the [Open System] option, press ▲ or ▼ to select the Encryption Type [None] or [WEP], and then press OK.
 - If you selected the [WEP] option for Encryption Type, enter the WEP key, and then press **OK**.
 - If you selected the [Shared Key] option, enter the WEP key, and then press OK.
 - If you selected the [WPA/WPA2-PSK] option, press ▲ or ▼ to select the Encryption Type [TKIP+AES] or [AES], and then press OK.

Enter the WPA[™] key, and then press **OK**.



Your machine supports the use of the first WEP key only.

- 11. To apply the settings, press ▼. To cancel, press ▲.
- 12. The machine will attempt to connect to the wireless device you have selected.

If your wireless device is connected successfully, the machine's LCD displays [Connected].

You have completed the wireless network setup. To install **Full Driver & Software Package** necessary for operating your device, insert the installation disc into your computer or go to the website at www.ricoh.com/support/.



Related Information

· Additional Methods of Configuring Your Machine for a Wireless Network

Related Topics

- I Cannot Complete the Wireless Network Setup Configuration
- · How to Enter Text on Your Machine
- · Wireless LAN Report Error Codes

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct®

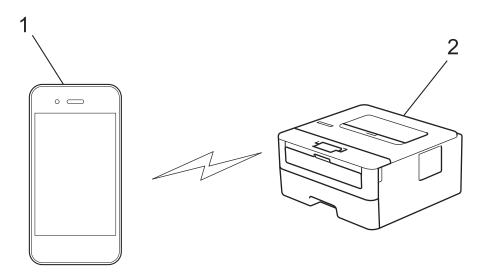
Use Wi-Fi Direct®

- Print from Your Mobile Device Using Wi-Fi Direct®
- Configure Your Wi-Fi Direct® Network
- I Cannot Complete the Wireless Network Setup Configuration

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct® > Print from Your Mobile Device Using Wi-Fi Direct®

Print from Your Mobile Device Using Wi-Fi Direct®

Wi-Fi Direct[®] is one of the wireless configuration methods developed by the Wi-Fi Alliance[®]. It allows you to configure a secured wireless network between your machine and a mobile device, such as an Android[™] device, Windows[®] device, iPhone, iPod touch, or iPad, without using an access point. Wi-Fi Direct[®] supports wireless network configuration using the one-push or PIN Method of Wi-Fi Protected Setup[™] (WPS). You can also configure a wireless network by manually setting an SSID and password. Your machine's Wi-Fi Direct[®] feature supports WPA2[™] security with AES encryption.



- 1. Mobile device
- 2. Your machine



- Although the machine can be used in both a wired and wireless network, only one connection method can be used at a time. However, a wireless network connection and Wi-Fi Direct[®] connection, or a wired network connection and Wi-Fi Direct[®] connection can be used at the same time.
- The Wi-Fi Direct®-supported device can become a Group Owner (G/O). When configuring the Wi-Fi Direct® network, the G/O serves as an access point.

✓

Related Information

Use Wi-Fi Direct[®]

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct® > Configure Your Wi-Fi Direct® Network

Configure Your Wi-Fi Direct® Network

Configure your Wi-Fi Direct® network settings from your machine's control panel.

- Wi-Fi Direct[®] Network Configuration Overview
- Configure Your Wi-Fi Direct[®] Network Using the One-Push Method
- Configure Your Wi-Fi Direct[®] Network Using the One-Push Method of Wi-Fi Protected Setup[™] (WPS)
- Configure Your Wi-Fi Direct[®] Network Using the PIN Method
- Configure Your Wi-Fi Direct[®] Network Using the PIN Method of Wi-Fi Protected Setup[™]
 (WPS)
- Configure Your Wi-Fi Direct[®] Network Manually

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct® > Configure Your Wi-Fi Direct® Network > Wi-Fi Direct® Network Configuration Overview

Wi-Fi Direct® Network Configuration Overview

The following instructions offer five methods for configuring your machine in a wireless network environment. Select the method you prefer for your environment:

Check your mobile device for configuration.

1. Does your mobile device support Wi-Fi Direct[®]?

Option	Description
Yes	Go to Step 2
No	Go to Step 3

2. Does your mobile device support one-push configuration for Wi-Fi Direct[®]?

Option	Description
Yes	See <i>Related Information</i> : Configure Your Wi-Fi Direct [®] Network Using the One-Push Method.
No	See <i>Related Information</i> : Configure Your Wi-Fi Direct [®] Network Using the PIN Method.

3. Does your mobile device support Wi-Fi Protected Setup[™] (WPS)?

Option	Description
Yes	Go to Step 4
No	See Related Information: Configure Your Wi-Fi Direct® Network Manually.

4. Does your mobile device support one-push configuration for Wi-Fi Protected Setup™ (WPS)?

Option	Description
Yes	See <i>Related Information</i> : Configure Your Wi-Fi Direct [®] Network Using the One-Push Method of Wi-Fi Protected Setup TM (WPS).
No	See <i>Related Information</i> : Configure Your Wi-Fi Direct [®] Network Using the PIN Method of Wi-Fi Protected Setup [™] (WPS).

To use iPrint&Scan functionality in a Wi-Fi Direct[®] network configured by one-push configuration using Wi-Fi Direct[®] or by PIN Method configuration using Wi-Fi Direct[®], the device you use to configure Wi-Fi Direct[®] must be running Android^{$^{\text{TM}}$} 4.0 or greater.

4

Related Information

Configure Your Wi-Fi Direct[®] Network

Related Topics

- Configure Your Wi-Fi Direct® Network Using the One-Push Method
- Configure Your Wi-Fi Direct[®] Network Using the One-Push Method of Wi-Fi Protected Setup[™] (WPS)
- Configure Your Wi-Fi Direct[®] Network Using the PIN Method
- Configure Your Wi-Fi Direct[®] Network Using the PIN Method of Wi-Fi Protected Setup[™] (WPS)

Configure Your Wi-Fi Direct® Network Manually

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct® > Configure Your Wi-Fi Direct® Network > Configure Your Wi-Fi Direct® Network Using the One-Push Method

Configure Your Wi-Fi Direct® Network Using the One-Push Method

If your mobile device supports Wi-Fi Direct[®], follow these steps to configure a Wi-Fi Direct[®] network:

- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Wi-Fi Direct] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Push Button] option, and then press OK.
- 4. When [Wi-Fi Direct On?] appears, press ▼ to accept. To cancel, press ▲.
- 5. Activate Wi-Fi Direct[®] on your mobile device (see your mobile device's user's guide for instructions) when [Activate Wi-Fi Direct on other device and press OK.] appears on the machine's LCD. Press **OK** on your machine.

This will start the Wi-Fi Direct[®] setup. To cancel, press **Back**.

- 6. Do one of the following:
 - When your machine is the Group Owner (G/O), connect your mobile device to the machine directly.
 - When your machine is not the G/O, it will display available device names with which to configure a Wi-Fi Direct[®] network. Press ▲ or ▼ to select the mobile device you want to connect to and press **OK**. To search for available devices again, press [<Rescan>], and then press **OK**.
- 7. If your mobile device connects successfully, the machine's LCD displays [Connected]. You have completed the Wi-Fi Direct[®] network setup.

Related Information

• Configure Your Wi-Fi Direct® Network

Related Topics

Wi-Fi Direct[®] Network Configuration Overview

■ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct® > Configure Your Wi-Fi Direct® Network > Configure Your Wi-Fi Direct® Network Using the One-Push Method of Wi-Fi Protected Setup™ (WPS)

Configure Your Wi-Fi Direct[®] Network Using the One-Push Method of Wi-Fi Protected Setup[™] (WPS)

If your mobile device supports WPS (PBC: Push Button Configuration), follow these steps to configure a Wi-Fi Direct[®] network:

- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Wi-Fi Direct] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Group Owner] option, and then press OK.
- 4. Press ▲ or ▼ to select the [On] option, and then press OK.
- 5. Press ▲ or ▼ to select the [Push Button] option, and then press OK.
- 6. When [Wi-Fi Direct On?] appears, press ▼ to accept. To cancel, press ▲.
- 7. Activate your mobile device's WPS one-push configuration method (see your mobile device's user's guide for instructions) when [Activate Wi-Fi Direct on other device and press OK.] appears on the machine's LCD. Press **OK** on your machine.
 - This will start the Wi-Fi Direct® setup. To cancel, press **Back**.
- 8. If your mobile device connects successfully, the machine's LCD displays <code>[Connected]</code>. You have completed the Wi-Fi Direct[®] network setup.

Related Information

Configure Your Wi-Fi Direct[®] Network

Related Topics

• Wi-Fi Direct® Network Configuration Overview

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct® > Configure Your Wi-Fi Direct® Network > Configure Your Wi-Fi Direct® Network Using the PIN Method

Configure Your Wi-Fi Direct® Network Using the PIN Method

If your mobile device supports the PIN Method of Wi-Fi Direct[®], follow these steps to configure a Wi-Fi Direct[®] network:

- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Wi-Fi Direct] option, and then press OK.
- 3. Press ▲ or ▼ to select the [PIN Code] option, and then press OK.
- 4. When [Wi-Fi Direct On?] appears, press ▼ to accept. To cancel, press ▲.
- 5. Activate Wi-Fi Direct[®] on your mobile device (see your mobile device's user's guide for instructions) when [Activate Wi-Fi Direct on other device and press OK.] appears on the machine's LCD. Press **OK** on your machine.

This will start the Wi-Fi Direct[®] setup. To cancel, press **Back**.

- 6. Do one of the following:
 - When your machine is the Group Owner (G/O), it will wait for a connection request from your mobile device. When <code>[Input PIN Code]</code> appears, enter the PIN displayed on your mobile device in your machine. Press **OK** to complete the setup.
 - If the PIN is displayed on your machine, enter the PIN in your mobile device.
 - When your machine is not the G/O, it will display available device names with which to configure a Wi-Fi Direct[®] network. Press ▲ or ▼ to select the mobile device you want to connect to and press OK. To search for available devices again, press [<Rescan>], and then press OK.
- 7. Do one of the following:
 - Press ▼ to display the PIN on your machine, enter the PIN in your mobile device, and then go to the next step.
 - Press ▲ to enter the PIN displayed by your mobile device in your machine. Press OK, and then go to the next step.
 - If your mobile device does not display a PIN, press **Back** on your machine. Go back to the first step and try again.
- 8. If your mobile device connects successfully, the machine's LCD displays [Connected]. You have completed the Wi-Fi Direct® network setup.

Related Information

Configure Your Wi-Fi Direct[®] Network

Related Topics

Wi-Fi Direct[®] Network Configuration Overview

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct[®] > Configure Your Wi-Fi Direct[®] Network > Configure Your Wi-Fi Direct[®] Network Using the PIN Method of Wi-Fi Protected Setup[™] (WPS)

Configure Your Wi-Fi Direct[®] Network Using the PIN Method of Wi-Fi Protected Setup[™] (WPS)

If your mobile device supports the PIN Method of Wi-Fi Protected Setup[™] (WPS), follow these steps to configure a Wi-Fi Direct[®] network:

- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Wi-Fi Direct] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Group Owner] option, and then press OK.
- 4. Press ▲ or ▼ to select the [On] option, and then press **OK**.
- 5. Press ▲ or ▼ to select the [PIN Code] option, and then press OK.
- 6. When [Wi-Fi Direct On?] appears, press ▼ to accept. To cancel, press ▲.
- 7. Activate your mobile device's WPS PIN configuration method (see your mobile device's user's guide for instructions) when [Activate Wi-Fi Direct on other device and press OK.] appears on the machine's LCD. Press **OK** on your machine.
 - This will start the Wi-Fi Direct® setup. To cancel, press **Back**.
- 8. The machine will wait for a connection request from your mobile device. When [Input PIN Code] appears, enter the PIN displayed on your mobile device in the machine.
- 9. Press OK.
- 10. If your mobile device connects successfully, the machine's LCD displays [Connected]. You have completed the Wi-Fi Direct® network setup.

Related Information

Configure Your Wi-Fi Direct[®] Network

Related Topics

Wi-Fi Direct[®] Network Configuration Overview

▲ Home > Network > Additional Methods of Configuring Your Machine for a Wireless Network > Use Wi-Fi Direct® > Configure Your Wi-Fi Direct® Network > Configure Your Wi-Fi Direct® Network Manually

Configure Your Wi-Fi Direct® Network Manually

If your mobile device does not support Wi-Fi Direct® or WPS, you must configure a Wi-Fi Direct® network manually.

- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Wi-Fi Direct] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Manual] option, and then press OK.
- 4. When [Wi-Fi Direct On?] appears, press ▼ to accept. To cancel, press ▲.
- 5. The machine will display the SSID name and Password for five minutes. Go to your mobile device's wireless network settings screen, select the SSID name, and then enter the password.
- 6. If your mobile device connects successfully, the machine's LCD displays <code>[Connected]</code>. You have completed the Wi-Fi Direct[®] network setup.

Related Information

Configure Your Wi-Fi Direct[®] Network

Related Topics

• Wi-Fi Direct® Network Configuration Overview

▲ Home > Network > Advanced Network Features

Advanced Network Features

- Print the Network Configuration Report
- Print the WLAN Report

▲ Home > Network > Advanced Network Features > Print the Network Configuration Report

Print the Network Configuration Report

The Network Configuration Report lists the network configuration, including the network print server settings.



- Node Name: The Node Name appears on the current Network Configuration Report. The default Node Name is "RINxxxxxxxxxxx" for a wired network or "RIWxxxxxxxxxxxx" for a wireless network (where "xxxxxxxxxxxx" is your machine's MAC Address / Ethernet Address.)
- If the [IP Address] on the Network Configuration Report shows 0.0.0.0, wait for one minute and try printing it again.
- You can find your machine's settings, such as the IP address, subnet mask, node name, and MAC Address on the report, for example:

IP address: 192.168.0.5

Subnet mask: 255.255.255.0
 Node name: RIN000ca0000499
 MAC Address: 00-0c-a0-00-04-99

- 1. Press ▲ or ▼ to select the [Print Reports] option, and then press OK.
- 2. Press ▲ or ▼ to select [Network Config].
- 3. Press OK.
- 4. Press Go.

4

Related Information

· Advanced Network Features

Related Topics

- · Where Can I Find My Machine's Network Settings?
- I Want to Check that My Network Devices are Working Correctly
- · Access Web Based Management

▲ Home > Network > Advanced Network Features > Print the WLAN Report

Print the WLAN Report

The WLAN Report reflects your machine's wireless status. If the wireless connection fails, check the error code on the printed report.

- 1. Press ▲ or ▼ to select the [Print Reports] option, and then press OK.
- 2. Press ▲ or ▼ to select the [WLAN Report] option, and then press OK.
- 3. Press Go.

The machine will print the WLAN Report.

Related Information

- · Advanced Network Features
 - · Wireless LAN Report Error Codes

Related Topics

- · My Machine Cannot Print over the Network
- · I Want to Check that My Network Devices are Working Correctly

▲ Home > Network > Advanced Network Features > Print the WLAN Report > Wireless LAN Report Error Codes

Wireless LAN Report Error Codes

If the Wireless LAN Report shows that the connection failed, check the error code on the printed report and see the corresponding instructions in the table:

Error Code	Problem and Recommended Solutions
TS-01	The wireless setting is not activated, change the wireless setting to ON.
	If a network cable is connected to your machine, disconnect it and change the wireless setting of your machine to ON.
TS-02	The wireless access point/router cannot be detected.
	1. Check the following two points:
	 Unplug the power to your wireless access point/router, wait for 10 seconds, and then plug it back in.
	 If your WLAN access point/router is using MAC address filtering, confirm that the MAC address of the machine is allowed in the filter.
	2. If you manually entered the SSID and security information (SSID/authentication method/encryption method/Network Key), the information may be incorrect.
	Reconfirm the SSID and security information and re-enter the correct information as necessary.
	This device does not support a 5 GHz SSID/ESSID and you must select a 2.4 GHz SSID/ ESSID. Make sure the access point/router is set to 2.4 GHz or 2.4 GHz/5 GHz mixed mode.
TS-04	The Authentication/Encryption methods used by the selected wireless access point/router are not supported by your machine.
	Change the authentication and encryption method of the wireless access point/router. Your machine supports the following authentication methods:
	WPA-Personal
	TKIP or AES
	WPA2-Personal
	TKIP or AES
	• Open
	WEP or None (without encryption)
	Shared key
	WEP
	If your problem is not solved, the SSID or network settings you entered may be incorrect. Confirm the wireless network settings.
TS-05	The security information (SSID/Network Key) is incorrect.
	Confirm the wireless security information (Authentication method/Encryption method/Network Key).
TS-06	The machine cannot detect a WLAN access point/router that has WPS enabled.
	Confirm the wireless security information (Authentication method/Encryption method/Network Key).
TS-07	The machine cannot detect a WLAN access point/router that has WPS enabled.
	If you want to connect with WPS, you must operate both your machine and the WLAN access point/router. Confirm the connection method for WPS on WLAN access point/router and try starting again.
	If you do not know how to operate your WLAN access point/router using WPS, see the documentation provided with your WLAN access point/router, ask the manufacturer of your WLAN access point/router or ask your network administrator.

Error Code	Problem and Recommended Solutions
TS-08	Two or more WLAN access points that have WPS enabled are detected.
	Confirm that only one WLAN access point/router within range has the WPS method active and try again.
	Try starting again after few minutes in order to avoid effects from other access points.

✓

Related Information

• Print the WLAN Report

Related Topics

- My Machine Cannot Print over the Network
- I Want to Check that My Network Devices are Working Correctly
- Configure Your Machine for a Wireless Network Using the One Push Method of Wi-Fi Protected Setup[™]
 (WPS)
- Configure Your Machine for a Wireless Network Using the PIN Method of Wi-Fi Protected Setup[™] (WPS)
- Configure Your Machine for a Wireless Network Using the Machine's Control Panel Setup Wizard
- Configure Your Machine for a Wireless Network When the SSID Is Not Broadcast

▲ Home > Network > Technical Information for Advanced Users

Technical Information for Advanced Users

• Reset the Network Settings to the Factory Settings

▲ Home > Network > Technical Information for Advanced Users > Reset the Network Settings to the Factory Settings

Reset the Network Settings to the Factory Settings

You can use your machine's control panel to reset the print server to its default factory settings. This resets all information, such as the password and IP address.



- This feature restores all wired (supported models only) and wireless network settings to the factory settings.
- You can also reset the print server to its factory settings using BRAdmin Light or Web Based Management.
- 1. Press ▲ or ▼ to select the [Network] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Network Reset] option, and then press OK.
- 3. Press ▼ for [Yes].

The machine will restart.

\checkmark

Related Information

Technical Information for Advanced Users

▲ Home > Security

Security

- Lock the Machine Settings
- Network Security Features

▲ Home > Security > Lock the Machine Settings

Lock the Machine Settings

Before turning on the machine's Access Lock, make a careful note of your password. If you forget the password, you must reset all passwords stored in the machine by contacting your administrator or service representative.

Setting Lock Overview

▲ Home > Security > Lock the Machine Settings > Setting Lock Overview

Setting Lock Overview

Use the Setting Lock feature to block unauthorised access to machine settings.

When Setting Lock is set to On, you cannot access the machine settings without entering the password.

- Set the Setting Lock Password
- · Change the Setting Lock Password
- Turn Setting Lock On

▲ Home > Security > Lock the Machine Settings > Setting Lock Overview > Set the Setting Lock Password

Set the Setting Lock Password

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to display the [Setting Lock] option, and then press OK.
- Enter a four-digit number for the password.
 To enter each digit, press ▲ or ▼ to select a number, and then press OK.
- 4. When the LCD displays [Verify:], re-enter the new password.

Related Information

Setting Lock Overview

▲ Home > Security > Lock the Machine Settings > Setting Lock Overview > Change the Setting Lock Password

Change the Setting Lock Password

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to display the [Setting Lock] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Set Password] option, and then press OK.
- 4. Enter the current four-digit password.
 - To enter each digit, press ▲ or ▼ to select a number, and then press **OK**.
- 5. Enter a new four-digit password.
 - To enter each digit, press ▲ or ▼ to select a number, and then press **OK**.
- 6. When the LCD displays [Verify:], re-enter the new password.

Relate

Related Information

Setting Lock Overview

▲ Home > Security > Lock the Machine Settings > Setting Lock Overview > Turn Setting Lock On

Turn Setting Lock On

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to display the [Setting Lock] option, and then press OK.
- 3. Press **OK** when the LCD displays [On].
- 4. Enter the current four-digit password.

To enter each digit, press ▲ or ▼ to select a number, and then press **OK**.



To turn Setting Lock off, press **OK**. Press **▼** to select [Yes] when the LCD displays [Unlock?], enter the current four-digit password.



Related Information

· Setting Lock Overview

▲ Home > Security > Network Security Features

Network Security Features

- Before Using Network Security Features
- Manage Your Network Machine Securely Using SSL/TLS
- Send an Email Securely

▲ Home > Security > Network Security Features > Before Using Network Security Features

Before Using Network Security Features

Your machine employs some of the latest network security and encryption protocols available today. These network features can be integrated into your overall network security plan to help protect your data and prevent unauthorised access to the machine.



We recommend disabling the FTP server and TFTP protocols. Accessing the machine using these protocols is not secure.



Related Information

· Network Security Features

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/TLS

Manage Your Network Machine Securely Using SSL/TLS

- Introduction to SSL/TLS
- · Certificates and Web Based Management
- Manage Your Network Machine Securely Using Web Based Management
- Print Documents Securely Using SSL/TLS

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Introduction to SSL/TLS

Introduction to SSL/TLS

Secure Socket Layer (SSL) or Transport Layer Security (TLS) is an effective method of protecting data sent over a local or wide area network (LAN or WAN). It works by encrypting data, such as a print job, sent over a network, so anyone trying to capture it will not be able to read it.

SSL/TLS can be configured on both wired and wireless networks and will work with other forms of security such as WPA keys and firewalls.

Related Information

- Manage Your Network Machine Securely Using SSL/TLS
 - Brief History of SSL/TLS
 - Benefits of Using SSL/TLS

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Introduction to SSL/TLS > Brief History of SSL/TLS

Brief History of SSL/TLS

SSL/TLS was originally created to secure web traffic information, particularly data sent between web browsers and servers. For example, when you use Internet Explorer® for Internet Banking and you see https:// and the little padlock icon in the web browser, you are using SSL. SSL grew to work with additional applications, such as Telnet, printer, and FTP software, in order to become a universal solution for online security. Its original design intentions are still being used today by many online retailers and banks to secure sensitive data, such as credit card numbers, customer records, etc.

SSL/TLS uses extremely high levels of encryption and is trusted by banks all over the world.



Related Information

· Introduction to SSL/TLS

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/TLS > Introduction to SSL/TLS > Benefits of Using SSL/TLS

Benefits of Using SSL/TLS

The primary benefit of using SSL/TLS on your machines is to guarantee secure printing over an IP network by restricting unauthorised users from reading data sent to the machine. SSL's key selling point is that it can be used to print confidential data securely. For example, an HR department in a large company may be printing wage slips on a regular basis. Without encryption, the data contained on these wages slips can be read by other network users. However, with SSL/TLS, anyone trying to capture the data will see a confusing page of code and not the actual wage slip.



Related Information

Introduction to SSL/TLS

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management

Certificates and Web Based Management

You must configure a certificate to manage your networked machine securely using SSL/TLS. You must use Web Based Management to configure a certificate.

- Supported Security Certificate Features
- Create and Install a Certificate
- Manage Multiple Certificates

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Supported Security Certificate Features

Supported Security Certificate Features

Your machine supports the use of multiple security certificates, which allows secure management, authentication, and communication with the machine. The following security certificate features can be used with the machine:

- SSL/TLS communication
- SSL communication for SMTP

Your machine supports the following:

· Pre-installed certificate

Your machine has a pre-installed self-signed certificate. This certificate enables you to use SSL/TLS communication without creating or installing a different certificate.



The pre-installed self-signed certificate cannot protect your communication from being compromised. We recommend using a certificate that is issued by a trusted organisation for better security.

· Self-signed certificate

This print server issues its own certificate. Using this certificate, you can easily use the SSL/TLS communication without creating or installing a different certificate from a CA.

Certificate from a Certificate Authority (CA)

There are two methods for installing a certificate from a CA. If you already have a certificate from a CA or if you want to use a certificate from an external trusted CA:

- When using a Certificate Signing Request (CSR) from this print server.
- When importing a certificate and a private key.
- Certificate Authority (CA) Certificate

To use a CA certificate that identifies the CA and owns its private key, you must import that CA certificate from the CA before configuring the security features of the Network.



- If you are going to use SSL/TLS communication, we recommend contacting your system administrator first.
- When you reset the print server back to its default factory settings, the certificate and the private key that are installed will be deleted. If you want to keep the same certificate and the private key after resetting the print server, export them before resetting, and then reinstall them.

4

Related Information

Certificates and Web Based Management

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate

Create and Install a Certificate

- · Step by Step Guide for Creating and Installing a Certificate
- · Create and Install a Self-signed Certificate
- Create and Install a Certificate from a Certificate Authority (CA)
- Import and Export a CA Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Step by Step Guide for Creating and Installing a Certificate

Step by Step Guide for Creating and Installing a Certificate

There are two options when choosing a security certificate: use a self-signed certificate or use a certificate from a Certificate Authority (CA).

These are a brief summary of the actions required, based on the option you choose.

Option 1

Self-Signed Certificate

- 1. Create a self-signed certificate using Web Based Management.
- 2. Install the self-signed certificate on your computer.

Option 2

Certificate from a CA

- 1. Create a Certificate Signing Request (CSR) using Web Based Management.
- 2. Install the certificate issued by the CA on your machine using Web Based Management.
- 3. Install the certificate on your computer.

Related Information

· Create and Install a Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Selfsigned Certificate

Create and Install a Self-signed Certificate

- · Create a Self-signed Certificate
- Install the Self-signed Certificate for Windows® users with Administrator Rights
- Import and Export the Self-signed Certificate on your Machine

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Self-signed Certificate > Create a Self-signed Certificate

Create a Self-signed Certificate

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

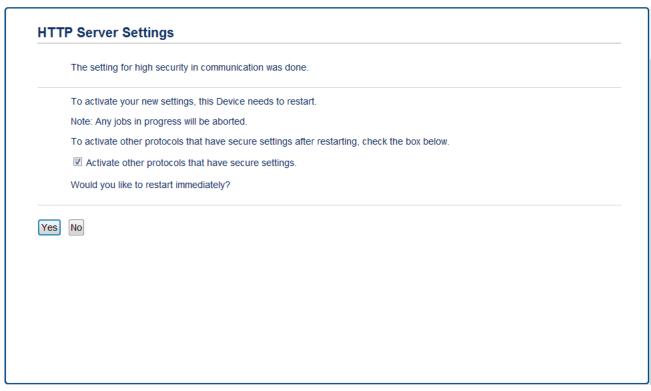
For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click Certificate.
- 7. Click Create Self-Signed Certificate.
- 8. Enter a Common Name and a Valid Date.
 - The length of the Common Name is less than 64 bytes. Enter an identifier, such as an IP address, node
 name, or domain name to use when accessing this machine through SSL/TLS communication. The node
 name is displayed by default.
 - A warning will appear if you use the IPPS or HTTPS protocol and enter a different name in the URL than the **Common Name** that was used for the self-signed certificate.
- 9. Select your setting from the Public Key Algorithm drop-down list. The default setting is RSA(2048bit).
- 10. Select your setting from the **Digest Algorithm** drop-down list. The default setting is **SHA256**.
- 11. Click Submit.
- 12. Click Network.
- 13. Click Protocol.
- 14. Click HTTP Server Settings.
- 15. Select the certificate you want to configure from the Select the Certificate drop-down list.
- 16. Click Submit.

The following screen appears.



17. Click **Yes** to restart your print server.

The self-signed certificate is created and saved in your machine's memory.

To use SSL/TLS communication, the self-signed certificate must be installed on your computer.



· Create and Install a Self-signed Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Selfsigned Certificate > Install the Self-signed Certificate for Windows[®] users with Administrator Rights

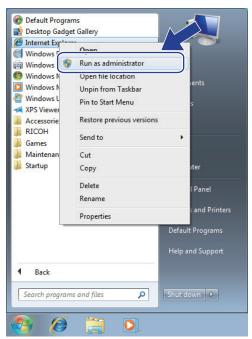
Install the Self-signed Certificate for Windows[®] users with Administrator Rights

The following steps are for Microsoft® Internet Explorer®. If you use another web browser, consult the documentation for your web browser to get help with installing certificates.

- 1. Do one of the following:
 - (Windows[®] 7 and Windows Server[®] 2008)
 - Click (Start) > All Programs.
 - (Windows[®] 8.1)
 - Right-click the (Internet Explorer) icon on the taskbar.
 - (Windows[®] 10 and Windows Server[®] 2016)
 - Click = > Windows Accessories.
 - (Windows Server[®] 2012 and Windows Server[®] 2012 R2)
 - Click (Internet Explorer), and then right-click the (Internet Explorer) icon that appears on the taskbar.
- 2. Right-click Internet Explorer, and then click Run as administrator.



If the More option appears, click More.

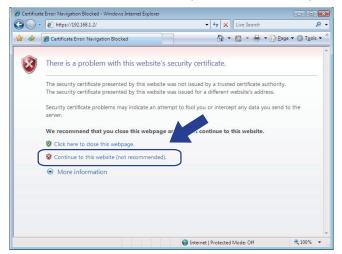


If the User Account Control screen appears, click Yes.

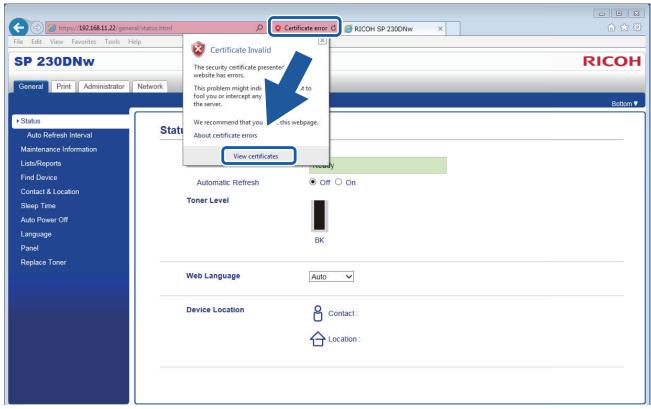
3. Type "https://machine's IP address" in your browser's address bar to access your machine (where "machine's IP address" is the machine's IP address or the node name that you assigned for the certificate).



4. Click Continue to this website (not recommended).



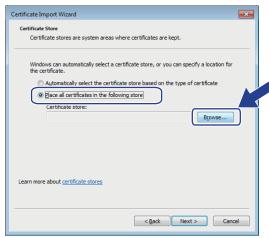
5. Click Certificate error, and then click View certificates.



6. Click Install Certificate....



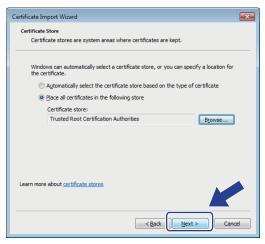
- 7. When the Certificate Import Wizard appears, click Next.
- 8. Select Place all certificates in the following store, and then click Browse....



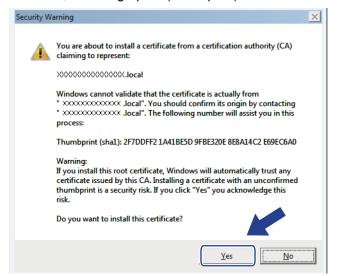
9. Select Trusted Root Certification Authorities, and then click OK.



10. Click Next.



- 11. Click Finish.
- 12. Click Yes, if the fingerprint (thumbprint) is correct.





The fingerprint (thumbprint) is printed on the Network Configuration Report.

13. Click **OK**.

The self-signed certificate is now installed on your computer, and SSL/TLS communication is available.



Related Information

· Create and Install a Self-signed Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Selfsigned Certificate > Import and Export the Self-signed Certificate on your Machine

Import and Export the Self-signed Certificate on your Machine

You can store the self-signed certificates on your machine and manage them by importing and exporting.

- Import the Self-signed Certificate
- Export the Self-signed Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Selfsigned Certificate > Import and Export the Self-signed Certificate on your Machine > Import the Self-signed Certificate

Import the Self-signed Certificate

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click Certificate.
- 7. Click Import Certificate and Private Key.
- 8. Browse to the file you want to import.
- 9. Type the password if the file is encrypted, and then click **Submit**.

The self-signed certificate is imported to your machine.

To use SSL/TLS communication, the self-signed certificate must also be installed on your computer. Contact your network administrator.



Related Information

Import and Export the Self-signed Certificate on your Machine

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Selfsigned Certificate > Import and Export the Self-signed Certificate on your Machine > Export the Self-signed Certificate

Export the Self-signed Certificate

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click Certificate.
- 7. Click Export shown with Certificate List.
- 8. If you want to encrypt the file, type a password in the **Enter password** field.

If the Enter password field is blank, your output file will not be encrypted.

- 9. Type the password again in the **Retype password** field, and then click **Submit**.
- 10. Click Save.
- 11. Specify the location where you want to save the file.

The self-signed certificate is exported to your computer.

You can also import the self-signed certificate to your computer.

✓

Related Information

Import and Export the Self-signed Certificate on your Machine

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Certificate from a Certificate Authority (CA)

Create and Install a Certificate from a Certificate Authority (CA)

If you already have a certificate from an external trusted CA, you can store the certificate and private key on the machine and manage them by importing and exporting. If you do not have a certificate from an external trusted CA, create a Certificate Signing Request (CSR), send it to a CA for authentication, and install the returned certificate on your machine.

- Create a Certificate Signing Request (CSR)
- Install a Certificate on Your Machine
- Import and Export the Certificate and Private Key

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Certificate from a Certificate Authority (CA) > Create a Certificate Signing Request (CSR)

Create a Certificate Signing Request (CSR)

A Certificate Signing Request (CSR) is a request sent to a Certificate Authority (CA) to authenticate the credentials contained within the certificate.

We recommend installing a Root Certificate from the CA on your computer before creating the CSR.

- Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click Certificate.
- 7. Click Create CSR.
- 8. Type a **Common Name** (required) and add other information about your **Organization** (optional).



- Your company details are required so that a CA can confirm your identity and verify it to the outside world.
- The length of the Common Name must be less than 64 bytes. Enter an identifier, such as an IP address, node name, or domain name to use when accessing this printer through SSL/TLS communication. The node name is displayed by default. The Common Name is required.
- A warning will appear if you type a different name in the URL than the Common Name that was used for the certificate.
- The length of the **Organization**, the **Organization Unit**, the **City/Locality** and the **State/Province** must be less than 64 bytes.
- The **Country/Region** should be a two character ISO 3166 country code.
- If you are configuring an X.509v3 certificate extension, select the **Configure extended partition** check box, and then select **Auto (Register IPv4)** or **Manual**.
- 9. Select your setting from the Public Key Algorithm drop-down list. The default setting is RSA(2048bit).
- 10. Select your setting from the Digest Algorithm drop-down list. The default setting is SHA256.
- 11. Click Submit.

The CSR appears on your screen. Save the CSR as a file or copy and paste it into an online CSR form offered by a Certificate Authority.

12. Click Save.



- Follow your CA's policy regarding the method to send a CSR to your CA.
- If you are using the Enterprise root CA of Windows Server® 2008/2012/2012 R2/2016, we recommend using the Web Server for the certificate template to securely create the Client Certificate.

✓

Related Information

• Create and Install a Certificate from a Certificate Authority (CA)

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Certificate from a Certificate Authority (CA) > Install a Certificate on Your Machine

Install a Certificate on Your Machine

When you receive a certificate from a CA, follow the steps below to install it into the print server:

Only a certificate issued with your machine's CSR can be installed onto the machine. When you want to create another CSR, make sure that the certificate is installed before creating another CSR. Create another CSR only after installing the certificate on the machine. If you do not, the CSR you create before installing will be invalid.

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click Certificate.
- 7. Click Install Certificate.
- 8. Browse to the file that contains the certificate issued by the CA, and then click **Submit**.

The certificate has been created successfully and saved in your machine's memory successfully.

To use SSL/TLS communication, the Root Certificate from the CA must be installed on your computer. Contact your network administrator.



Related Information

Create and Install a Certificate from a Certificate Authority (CA)

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Certificate from a Certificate Authority (CA) > Import and Export the Certificate and Private Key

Import and Export the Certificate and Private Key

Store the certificate and private key on your machine and manage them by importing and exporting them.

- Import a Certificate and Private Key
- Export the Certificate and Private Key

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Certificate from a Certificate Authority (CA) > Import and Export the Certificate and Private Key > Import a Certificate and Private Key

Import a Certificate and Private Key

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click Certificate.
- 7. Click Import Certificate and Private Key.
- 8. Browse to the file you want to import.
- 9. Type the password if the file is encrypted, and then click **Submit**.

The certificate and private key are imported to your machine.

To use SSL/TLS communication, the Root Certificate from the CA must also be installed on your computer. Contact your network administrator.



Related Information

Import and Export the Certificate and Private Key

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Create and Install a Certificate from a Certificate Authority (CA) > Import and Export the Certificate and Private Key > Export the Certificate and Private Key

Export the Certificate and Private Key

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click Certificate.
- 7. Click Export shown with Certificate List.
- 8. Enter the password if you want to encrypt the file.
 - If a blank password is used, the output is not encrypted.
- 9. Enter the password again for confirmation, and then click **Submit**.
- 10. Click Save.
- 11. Specify the location where you want to save the file.

The certificate and private key are exported to your computer.

You can also import the certificate to your computer.

✓

Related Information

· Import and Export the Certificate and Private Key

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Import and Export a CA Certificate

Import and Export a CA Certificate

You can import, export and store CA certificates on your machine.

- Import a CA Certificate
- Export a CA Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Import and Export a CA Certificate > Import a CA Certificate

Import a CA Certificate

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click —. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click CA Certificate.
- 7. Click Import CA Certificate.
- 8. Browse to the file you want to import.
- 9. Click Submit.



Related Information

· Import and Export a CA Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Create and Install a Certificate > Import and Export a CA Certificate > Export a CA Certificate

Export a CA Certificate

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click —. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the Security tab.
- 6. Click CA Certificate.
- 7. Select the certificate you want to export and click **Export**.
- 8. Click Submit.
- 9. Click Save.
- 10. Specify where on your computer you want to save the exported certificate, and save it.

4

Related Information

· Import and Export a CA Certificate

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Certificates and Web Based Management > Manage Multiple Certificates

Manage Multiple Certificates

The multiple certificate feature allows you to use Web Based Management to manage each certificate installed on your machine. In Web Based Management, navigate to the **Certificate** or **CA Certificate** screen to view certificate content, delete, or export your certificates.

	Maximum Number of Certificates Stored UP on Your Machine
Self-signed Certificate or Certificate Issued by a CA	3
CA Certificate	3

You can store up to 3 Certificate Authority (CA) certificates using SMTP over SSL (only available for certain models).

We recommend storing one less certificate than allowed, reserving an empty spot in case of certificate expiration. When a certificate expires, import a new certificate into the reserved spot, and then delete the expired certificate. This ensures that you avoid configuration failure.



When you use SSL for SMTP communications, you do not have to choose the certificate. The necessary certificate will be chosen automatically.

Related Information

· Certificates and Web Based Management

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/ TLS > Manage Your Network Machine Securely Using Web Based Management

Manage Your Network Machine Securely Using Web Based Management

To manage your network machine securely, you must use management utilities with security protocols.

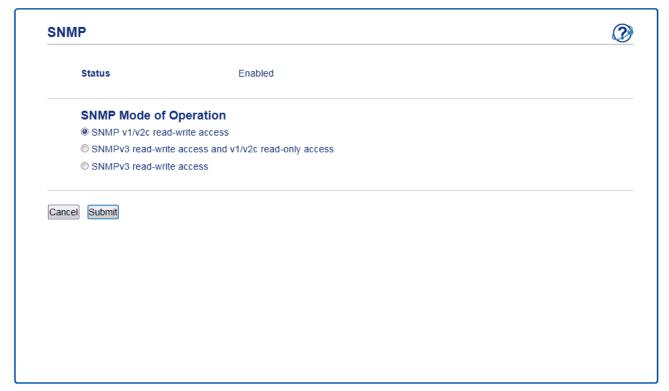
We recommend using the HTTPS protocol for secure management. To use this protocol, HTTPS must be enabled on your machine.



- The HTTPS protocol is enabled by default.
- You can change the HTTPS protocol settings using the Web Based Management screen.
- 1. Start your web browser.
- 2. Type "https://Common Name" in your browser's address bar (where "Common Name" is the Common Name that you assigned to the certificate; this could be your IP address, node name, or domain name).
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. You can now access the machine using HTTPS.



- If you use the SNMPv3 protocol, follow the steps below.
- 5. Click the Network tab.
- 6. Click Protocol.
- Make sure the SNMP setting is enabled, and then click Advanced Settings.
- 8. Configure the SNMP settings.



There are three options for **SNMP Mode of Operation**.

SNMP v1/v2c read-write access

In this mode, the print server uses version 1 and version 2c of the SNMP protocol. You can use all applications in this mode. However, it is not secure since it will not authenticate the user, and data will not be encrypted.

SNMPv3 read-write access and v1/v2c read-only access

In this mode, the print server uses the read-write access of version 3 and the read-only access of version 1 and version 2c of the SNMP protocol.



When you use **SNMPv3 read-write access and v1/v2c read-only access** mode, some applications (such as BRAdmin Light) that access the print server do not work correctly since they authorise the read-only access of version 1 and version 2c. If you want to use all applications, we recommend using **SNMP v1/v2c read-write access** mode.

SNMPv3 read-write access

In this mode, the print server uses version 3 of the SNMP protocol. If you want to manage the print server securely, use this mode.



When you use SNMPv3 read-write access mode, note the following:

- You can use only Web Based Management to manage the print server.
- All applications that use SNMPv1/v2c will be restricted. To allow the use of SNMPv1/v2c applications, use SNMPv3 read-write access and v1/v2c read-only access or SNMP v1/v2c read-write access mode.

9. Click Submit.



Related Information

· Manage Your Network Machine Securely Using SSL/TLS

▲ Home > Security > Network Security Features > Manage Your Network Machine Securely Using SSL/TLS > Print Documents Securely Using SSL/TLS

Print Documents Securely Using SSL/TLS

To print documents securely with IPP protocol, use the IPPS protocol.

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click Protocol. Make sure the IPP check box is selected.



If the IPP check box is not selected, select the IPP check box, and then click Submit.

Restart your machine to activate the configuration.

After the machine restarts, return to the machine's web page, click the **Network** tab, and then click **Protocol**.

- 6. Click HTTP Server Settings.
- 7. Select the HTTPS(Port 443) check box in the IPP, and then click Submit.
- 8. Restart your machine to activate the configuration.

Communication using IPPS cannot prevent unauthorised access to the print server.



Related Information

Manage Your Network Machine Securely Using SSL/TLS

▲ Home > Security > Network Security Features > Send an Email Securely

Send an Email Securely

- Configure Email Sending Using Web Based Management
- Send an Email with User Authentication
- Send an Email Securely Using SSL/TLS

▲ Home > Security > Network Security Features > Send an Email Securely > Configure Email Sending Using Web Based Management

Configure Email Sending Using Web Based Management

We recommend using Web Based Management to configure secured email sending with user authentication, or email sending using SSL/TLS.

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2

- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the **Protocol** menu in the left navigation bar.
- 6. In the SMTP field, click Advanced Settings and make sure the status of SMTP is Enabled.
- 7. Configure the **SMTP** settings.
 - Confirm that the email settings are correct after configuration by sending a test email.
 - If you do not know the SMTP server settings, contact your network administrator or Internet Service Provider (ISP).
- 8. When finished, click Submit.

The **Test Send E-mail Configuration** dialog box appears.

9. Follow the instructions in the dialog box to test the current settings.

Related Information

· Send an Email Securely

▲ Home > Security > Network Security Features > Send an Email Securely > Send an Email with User Authentication

Send an Email with User Authentication

Your machine supports the SMTP-AUTH method to send email via an email server that requires user authentication. This method prevents unauthorised users from accessing the email server.

You can use the SMTP-AUTH method for email notification and email reports.



We recommend using Web Based Management to configure the SMTP authentication.

Email Server Settings

You must configure your machine's SMTP authentication method to match the method used by your email server. For details about your email server settings, contact your network administrator or Internet Service Provider (ISP).



To enable SMTP server authentication, in the Web Based Management **SMTP** screen, under **Server Authentication Method**, you must select **SMTP-AUTH**.

Related Information

· Send an Email Securely

▲ Home > Security > Network Security Features > Send an Email Securely > Send an Email Securely Using SSL/TLS

Send an Email Securely Using SSL/TLS

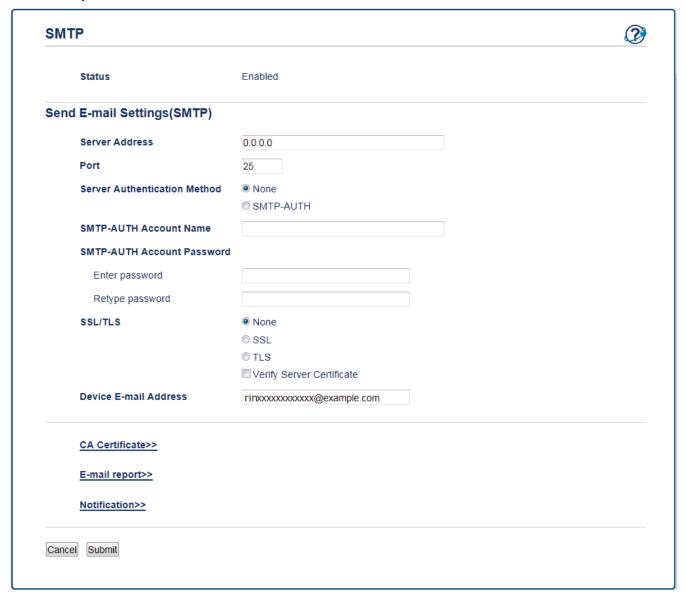
Your machine supports SSL/TLS methods to send an email via an email server that requires secure SSL/TLS communication. To send email via an email server that is using SSL/TLS communication, you must configure SMTP over SSL/TLS.



We recommend using Web Based Management to configure SSL/TLS.

Verify Server Certificate

Under SSL/TLS, if you choose SSL or TLS, the Verify Server Certificate check box will be selected automatically.





- Before you verify the server certificate, you must import the CA certificate issued by the CA that signed
 the server certificate. Contact your network administrator or your Internet Service Provider (ISP) to
 confirm if importing a CA certificate is necessary.
- If you do not need to verify the server certificate, clear the Verify Server Certificate check box.

Port Number

If you select **SSL**, the **Port** value will be changed to match the protocol. To change the port number manually, type the port number after you choose **SSL/TLS**.

You must configure your machine's SMTP communication method to match the method used by your email server. For details about your email server settings, contact your network administrator or your ISP.

In most cases, the secured webmail services require the following settings:

SMTP	Port	25
	Server Authentication Method	SMTP-AUTH
	SSL/TLS	TLS



Related Information

Send an Email Securely

▲ Home > Mobile

Mobile

- Google Cloud Print
- AirPrint
- Mobile Printing for Windows®
- Mopria[®] Print Service

▲ Home > Mobile > Google Cloud Print

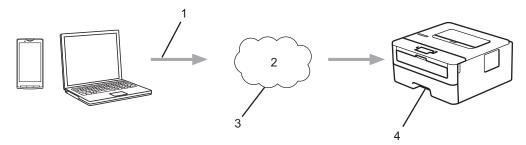
- Google Cloud Print Overview
- Before Using Google Cloud Print
- Print from Google Chrome $^{\text{™}}$ or Chrome $^{\text{™}}$
- Print from Google Drive $^{\text{™}}$ for Mobile
- Print from Gmail[™] Webmail Service for Mobile

▲ Home > Mobile > Google Cloud Print > Google Cloud Print Overview

Google Cloud Print Overview

Google Cloud $Print^{\mathsf{TM}}$ is a Google service that allows you to print to a printer registered to your Google account using a network-compatible device (such as a mobile phone or computer) without installing the printer driver on the device.

Printing from Android $^{\text{\tiny{TM}}}$ apps requires installing the Google Cloud Print $^{\text{\tiny{TM}}}$ app from the Google Play $^{\text{\tiny{TM}}}$ Store.



- 1. Print request
- 2. Internet
- Google Cloud Print[™]
- 4. Printing

Related Information

▲ Home > Mobile > Google Cloud Print > Before Using Google Cloud Print

Before Using Google Cloud Print

- Network Settings for Using Google Cloud Print
- Register Your Machine with Google Cloud Print Using Google Chrome[™]
- Register Your Machine with Google Cloud Print Using Web Based Management

▲ Home > Mobile > Google Cloud Print > Before Using Google Cloud Print > Network Settings for Using Google Cloud Print

Network Settings for Using Google Cloud Print

In order to use Google Cloud $Print^{\mathsf{TM}}$, your machine must be connected to a network that has access to the Internet, either through a wired or wireless connection. To connect and configure your machine correctly, see the *Setup Guide* or related topics in this guide.

4

Related Information

• Before Using Google Cloud Print

Related Topics

· Google Cloud Print Problems

■ Home > Mobile > Google Cloud Print > Before Using Google Cloud Print > Register Your Machine with Google Cloud Print Using Google Chrome

Register Your Machine with Google Cloud Print Using Google Chrome™

Make sure you have already created a Google Account. If you do not have an account, use a computer or mobile device to access the Google website (https://accounts.google.com/signup) and create an account. Make sure your machine is idle before starting the registration process.



The steps in this section are examples for Windows[®] users.

Screens on your computer may vary depending on your operating system and environment. You may be required to access an external server for updating the certificate.

- 1. Open Google Chrome[™] on your computer.
- 2. Sign in to your Google Account.
- 3. Click the Google Chrome[™] menu icon, and then **Settings** > **Show advanced settings**....
- 4. In the Google Cloud Print section, click Manage.
- 5. Follow the on-screen instructions to register your machine.
- 6. When a confirmation message appears on your machine, press the [OK] button.



If the confirmation message does not appear on your machine's LCD, repeat these steps.

7. When your machine is successfully registered, it will appear in the My devices field.

✓

Related Information

· Before Using Google Cloud Print

▲ Home > Mobile > Google Cloud Print > Before Using Google Cloud Print > Register Your Machine with Google Cloud Print Using Web Based Management

Register Your Machine with Google Cloud Print Using Web Based Management

Make sure you have already created a Google Account. If you do not have an account, use a computer or mobile device to access the Google website (https://accounts.google.com/signup) and create an account.

Make sure your machine is idle before starting the registration process.

Before you begin to register your machine, confirm that the correct date and time are set on the machine.

- 1. Confirm that your machine is connected to the same network as your computer or mobile device.
- 2. Start your web browser.
- 3. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2

- 4. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 5. Click the Network tab.
- 6. Click the Protocol menu in the left navigation bar.
- 7. Make sure that Google Cloud Print is selected, and then click Advanced Settings.
- 8. Make sure that **Status** is set to **Enabled**. Click **Register**.
- 9. Follow the on-screen instructions to register your machine.
- 10. When a confirmation message appears on your machine, press the OK button.



If the confirmation message does not appear on your machine's LCD, repeat these steps.

- 11. Click Google.
- 12. The sign-in screen for Google Cloud Print[™] appears. Sign in with your Google Account and follow the onscreen instructions to register your machine.
- 13. When you have finished registering your machine, return to the Web Based Management screen and make sure that **Registration Status** is set to **Registered**.

4

Related Information

Before Using Google Cloud Print

■ Home > Mobile > Google Cloud Print > Print from Google Chrome
[™] or Chrome OS

Print from Google Chrome [™] or Chrome OS [™]

- 1. Make sure your machine is turned on.
- 2. Open the web page that you want to print.
- 3. Click the Google Chrome $^{\text{\tiny TM}}$ menu icon.
- 4. Click Print.
- 5. Select your machine from the printer list.
- 6. Change print options, if needed.
- 7. Click Print.

Related Information

■ Home > Mobile > Google Cloud Print > Print from Google Drive[™] for Mobile

Print from Google Drive[™] for Mobile

- 1. Make sure your machine is turned on.
- 2. Access Google Drive $^{\text{TM}}$ from your Android $^{\text{TM}}$ or iOS device's web browser.
- 3. Open the document that you want to print.
- 4. Tap the menu icon.
- 5. Tap Print.
- 6. Select your machine from the printer list.
- 7. Change print options, if needed.
- 8. Tap 🕞 or **Print**.

Related Information

■ Home > Mobile > Google Cloud Print > Print from Gmail Mebmail Service for Mobile

Print from Gmail[™] Webmail Service for Mobile

- 1. Make sure your machine is turned on.
- 2. Access the Gmail[™] webmail service from your Android or iOS device's web browser.
- 3. Open the email that you want to print.
- 4. Tap the menu icon.



If **Print** appears beside the attachment name, you can also print the attachment. Tap **Print**, and then follow the instructions on your mobile device.

- 5. Tap Print.
- 6. Select your machine from the printer list.
- 7. Change print options, if needed.
- 8. Tap 🕣 or **Print**.



Related Information

▲ Home > Mobile > AirPrint

AirPrint

- AirPrint Overview
- Before Using AirPrint
- Print Using AirPrint

▲ Home > Mobile > AirPrint > AirPrint Overview

AirPrint Overview

AirPrint is a printing solution for Apple operating systems that allows you to wirelessly print photos, email, web pages and documents from your iPad, iPhone, iPod touch and Mac computer without the need to install a driver.

For more information, visit Apple's website.





Related Information

AirPrint

Related Topics

AirPrint Problems

▲ Home > Mobile > AirPrint > Before Using AirPrint

Before Using AirPrint

- Network Settings for Using AirPrint
- Disable and Enable AirPrint Using Web Based Management (Web Browser)

▲ Home > Mobile > AirPrint > Before Using AirPrint > Network Settings for Using AirPrint

Network Settings for Using AirPrint

In order to use AirPrint, your mobile device must connect to the wireless network to which your machine is connected. AirPrint supports wireless connections that use infrastructure mode or Wi-Fi Direct[®].

To configure your mobile device for a wireless network, refer to your mobile device's user's guide. A link to your mobile device's user's guide on Apple's website can be found by tapping in Safari.

To configure your machine for a wireless network, see the *Setup Guide* or related topics in this guide. If your machine supports a wired network, you can use a network cable to connect to the wireless access point/router.

If your machine supports Wi-Fi Direct[®] and you want to configure your machine for a Wi-Fi Direct[®] network, see related topics in this User's Guide.

✓

Related Information

· Before Using AirPrint

▲ Home > Mobile > AirPrint > Before Using AirPrint > Disable and Enable AirPrint Using Web Based Management (Web Browser)

Disable and Enable AirPrint Using Web Based Management (Web Browser)

Confirm that your machine is connected to the same network as your computer.

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2

- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click the Network tab.
- 5. Click the **Protocol** menu in the left navigation bar.
- 6. To disable AirPrint, clear the AirPrint check box. To enable AirPrint, select the AirPrint check box.



By default, AirPrint is enabled.

- 7. Click Submit.
- 8. Restart your machine to activate the configuration.

V

Related Information

· Before Using AirPrint

▲ Home > Mobile > AirPrint > Print Using AirPrint

- Print from iPad, iPhone, or iPod Touch
- Before Using AirPrint (macOS)
- Print Using AirPrint (macOS)

▲ Home > Mobile > AirPrint > Print Using AirPrint > Print from iPad, iPhone, or iPod Touch

Print from iPad, iPhone, or iPod Touch

The procedure used to print may vary by application. Safari is used in the example below.

- 1. Make sure your machine is turned on.
- 2. Use Safari to open the page that you want to print.
- 3. Tap or 🗂
- 4. Tap Print.
- 5. Make sure your machine is selected.
- 6. If a different machine (or no printer) is selected, tap **Printer**.
 - A list of available machines appears.
- 7. Tap your machine's name in the list.
- 8. Select the desired options, such as the number of pages to print and 2-sided printing (if supported by your machine).
- 9. Tap Print.

✓

Related Information

▲ Home > Mobile > AirPrint > Print Using AirPrint > Before Using AirPrint (macOS)

Before Using AirPrint (macOS)

Before printing using macOS, add your machine to the printer list on your Mac computer.

- 1. Select **System Preferences** from the Apple Menu.
- 2. Click Printers & Scanners.
- 3. Click the + icon below the Printers pane on the left.
- 4. Click Add Printer or Scanner.... The Add screen appears.
- 5. Select your machine, and then select AirPrint from the Use pop-up menu.
- 6. Click Add.

Related Information

▲ Home > Mobile > AirPrint > Print Using AirPrint > Print Using AirPrint (macOS)

Print Using AirPrint (macOS)

The procedure used to print may vary by application. Safari is used in the example below. Before printing, make sure your machine is in the printer list on your Mac computer.

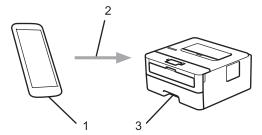
- 1. Make sure your machine is turned on.
- 2. On your Mac computer, use Safari to open the page that you want to print.
- 3. Click the File menu, and then select Print.
- 4. Make sure your machine is selected. If a different machine (or no printer) is selected, click the **Printer** pop-up menu, and then select your machine.
- 5. Select the desired options, such as the number of pages to print and 2-sided printing (if supported by your machine).
- 6. Click Print.

Related Information

▲ Home > Mobile > Mobile Printing for Windows®

Mobile Printing for Windows®

Mobile printing for Windows[®] is a function to print wirelessly from your Windows[®] mobile device. You can connect to the same network that your machine is connected to and print without installing the printer driver on the device. Many Windows[®] apps support this function.



- 1. Windows® mobile device (Windows® 10 Mobile or later)
- 2. Wi-Fi® connection
- 3. Your machine

Related Information

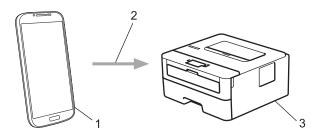
Mobile

▲ Home > Mobile > Mopria® Print Service

Mopria® Print Service

Mopria[®] Print Service is a print feature on Android[™] mobile devices (Android[™] version 4.4 or later) developed by the Mopria[®] Alliance. With this service, you can connect to the same network as your machine and print without additional setup. Many native Android[™] apps support printing.





- Android[™] 4.4 or later
- 2. Wi-Fi® Connection
- 3. Your machine

You must download the Mopria[®] Print Service from the Google $Play^{TM}$ Store and install it on your Android device. Before using this service, you must turn it on.



Related Information

Mobile

▲ Home > iPrint&Scan for Mac

iPrint&Scan for Mac

iPrint&Scan Overview

▲ Home > iPrint&Scan for Mac > iPrint&Scan Overview

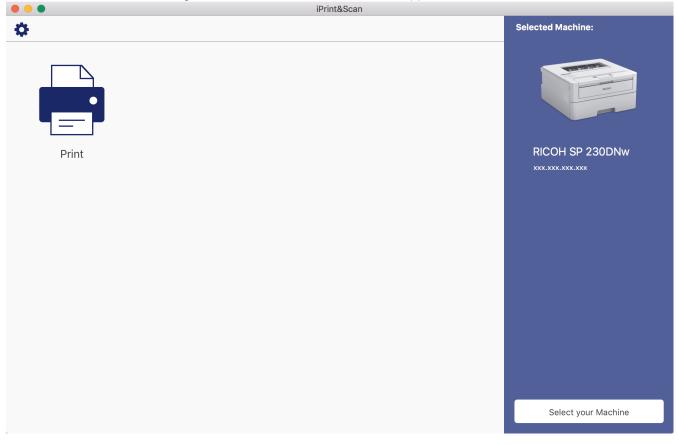
iPrint&Scan Overview

Use iPrint&Scan for Mac to print from your computer.

The following screen shows an example of iPrint&Scan. The actual screen may differ depending on the version of the application.

For Mac

To download iPrint&Scan, go to the website at www.ricoh.com/support/.



Related Information

• iPrint&Scan for Mac

▲ Home > Troubleshooting

Troubleshooting

Use this section to resolve typical problems you may encounter when using your machine. You can correct most problems yourself.

IMPORTANT

For technical help, you must call your local dealer or service representative.

Using non-genuine supplies may affect the print quality, hardware performance, and machine reliability.

First, check the following:

- The machine's power cord is connected correctly and the machine's power is on. See the Setup Guide.
- All of the protective materials have been removed. See the Setup Guide.
- · Paper is loaded correctly in the paper tray.
- The interface cables are securely connected to the machine and the computer, or the wireless connection is set up on both the machine and your computer.
- · Error and maintenance messages

If you did not solve the problem with the checks, identify the problem and then see Related Information.

Related Information

- · Error and Maintenance Messages
- Paper Jams
- · Printing Problems
- · Improve the Print Quality
- Network Problems
- · Google Cloud Print Problems
- · AirPrint Problems
- · Other Problems
- · Machine Information

Error and Maintenance Messages

As with any sophisticated office product, errors may occur and supply items may have to be replaced. If this happens, your machine identifies the error or required routine maintenance and shows the appropriate message. The most common error and maintenance messages are shown in the table.

Follow the instructions in the **Action** column to solve the error and remove the message.

You can correct most errors and perform routine maintenance by yourself.

Error Message	Cause	Action	
2-sided Disabled	The back cover of the machine is not closed completely.	Close the back cover of the machine until it locks in the closed position.	
	The 2-sided tray is not installed completely.	Install the 2-sided tray firmly in the machine.	
Cartridge Error	The toner cartridge is not installed correctly.	Remove the toner cartridge and drum unit assembly. Take out the toner cartridge, and put it back in the drum unit again. Reinstall the toner cartridge and drum unit assembly in the machine. If the problem continues, contact your local dealer or service representative.	
Cooling Down	The temperature of the inside of the machine is too hot. The machine pauses its current print	Wait until the machine has finished cooling down. Make sure all vents on the machine are clear of obstructions.	
	job and goes into cooling down mode.	When the machine has cooled down, the machine will resume printing.	
		If the fan is not spinning, disconnect the machine from the power for several minutes, then reconnect it.	
Cover is Open	The front cover is not completely closed.	Open and then firmly close the front cover of the machine.	
Cover is Open	The fusing unit cover is not completely closed.	Close the fusing unit cover located inside the back cover of the machine.	
Drum !	The corona wire on the drum unit must be cleaned.	Clean the corona wire on the drum unit.	
		See Related Information: Clean the Corona Wire. If the problem continues, replace the drum unit	
	The drum unit or the toner cartridge and drum unit assembly is not installed correctly.	with a new one. Remove the drum unit, remove the toner cartridge from the drum unit, and put the toner cartridge back into the drum unit. Reinstall the drum unit in the machine.	
Drum End Soon	The drum unit is near the end of its life.	Order a new drum unit before the LCD displays Replace Drum.	

Error Message	Cause	Action	
Jam 2-sided	The paper is jammed in the 2-sided tray or inside the back cover.	Remove the 2-sided tray and open the back cover to pull out all jammed paper.	
Jam Inside	The paper is jammed inside the machine.	Open the front cover, remove the toner cartridge and drum unit assembly, and pull out all jammed paper. Close the front cover.	
Jam Rear	The paper is jammed in the back of the machine.	Open the fusing unit cover and remove all jammed paper. Close the fusing unit cover.	
Jam Tray 1	The paper is jammed in the indicated paper tray.	Pull out the paper tray indicated on the LCD and remove all jammed paper.	
Manual Feed	Manual was selected as the paper source in the printer driver, but there is no paper in the manual feed slot.	Place paper in the manual feed slot.	
Media Mismatch	The media type specified in the printer driver differs from the paper type specified in the machine's menu.	Load the correct type of paper in the tray indicated on the LCD, and then select the correct media type in the Paper Type setting on the machine.	
No Drum Unit	The drum unit is not installed correctly.	Reinstall the toner cartridge and drum unit assembly.	
No Paper	The machine is out of paper, or paper is not loaded correctly in the paper tray.	 Refill paper in the paper tray. Make sure the paper guides are set to the correct size. If paper is in the tray, remove it and load it again. Make sure the paper guides are set to the correct size. Do not overfill the paper tray. 	
No Paper T1	The machine failed to feed paper from the indicated paper tray.	 Do one of the following: Refill paper in the paper tray indicated on the LCD. Make sure the paper guides are set to the correct size. If paper is in the tray, remove it and load it again. Make sure the paper guides are set to the correct size. Do not overfill the paper tray. 	
No Toner	The toner cartridge or the toner cartridge and drum unit assembly is not installed correctly.	Remove the toner cartridge and drum unit assembly. Remove the toner cartridge from the drum unit, and reinstall the toner cartridge back in the drum unit. Reinstall the toner cartridge and drum unit assembly back in the machine. If the problem continues, replace the toner cartridge with a new one.	
Out of Memory	The machine's memory is full.	Press and hold Go for about two seconds and reduce the print resolution.	
Print Data Full	The machine's memory is full.	Press and hold Go for about two seconds and delete the previously stored print data.	
Print Unable##	The machine has a mechanical problem.	 Press and hold (1) to turn the machine off, wait a few minutes, and then turn it on again. If the problem continues, contact your local dealer or service representative. 	

Error Message	Cause	Action	
Replace Drum	It is time to replace the drum unit.	Replace the drum unit with a new one. See Related Information: Replace the Drum Unit.	
	The drum unit counter was not reset when a new drum was installed.	Reset the drum unit counter. See the instructions included with the new drum unit.	
Replace Toner	The toner cartridge is at the end of its life. The machine stops all print operations.	Replace the toner cartridge with a new one.	
Self-Diagnostic	The temperature of the fusing unit does not rise to a specified temperature within the specified time. The fusing unit is too hot.	Press and hold (1) to turn the machine off, wait a few seconds, and then turn it on again. Leave the machine idle for 15 minutes with the power on.	
Size Error	The paper size defined in the printer driver is not supported by the defined tray.	Choose a paper size supported by the define tray.	
Size Error DX	The paper size specified in the machine's paper size setting is not available for automatic 2-sided printing.	Press and hold Go for about two seconds (if required). Load the correct size of paper in the tray and set the tray for that paper size.	
The paper in the tray is not the correct size and is not available for automatic 2-sided printing.		Choose a paper size supported by 2-sided printing. Paper size available for automatic 2-sided printing is A4.	
Size Mismatch	The paper in the tray is not the correct size.	Load the correct size of paper in the tray indicated on the LCD and set the size of paper for the tray. Press Go .	
Toner Ended	It is time to replace the toner cartridge.	Replace the toner cartridge with a new one.	
Toner Low	If the LCD displays this message, you can still print. The toner cartridge is near the end of its life.	Order a new toner cartridge now so you have it ready when the LCD displays Replace Toner.	

4

Related Information

• Troubleshooting

Related Topics

- Replace Supplies
- Replace the Drum Unit
- Clean the Corona Wire

▲ Home > Troubleshooting > Paper Jams

Paper Jams

Always remove the remaining paper from the paper tray and straighten the stack when you are adding new paper. This helps prevent multiple sheets of paper from feeding through the machine at one time and prevents paper jams.

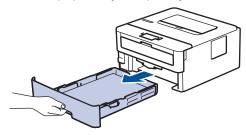
- Paper is Jammed in the Paper Tray
- Paper is Jammed in the Back of the Machine
- · Paper is Jammed inside the Machine
- Paper is Jammed in the 2-sided Tray

▲ Home > Troubleshooting > Paper Jams > Paper is Jammed in the Paper Tray

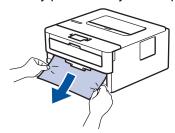
Paper is Jammed in the Paper Tray

If the machine's control panel or the Status Monitor indicates that there is a jam in the paper tray, follow these steps:

1. Pull the paper tray completely out of the machine.



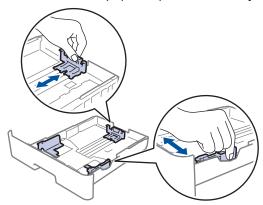
2. Slowly pull out the jammed paper.



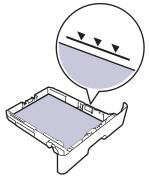


Pulling the jammed paper downward using both hands allows you to remove the paper more easily.

3. Fan the stack of paper to prevent further jams, and slide the paper guides to fit the paper size.



4. Make sure the paper is below the maximum paper mark (▼ ▼ ▼).



5. Put the paper tray firmly back in the machine.

Relate

Related Information

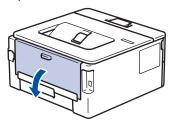
Paper Jams

▲ Home > Troubleshooting > Paper Jams > Paper is Jammed in the Back of the Machine

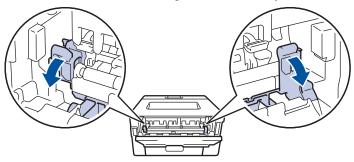
Paper is Jammed in the Back of the Machine

If the machine's control panel or the Status Monitor indicates that there is a jam in the back (Rear) of the machine, follow these steps:

- 1. Leave the machine turned on for 10 minutes for the internal fan to cool the extremely hot parts inside the machine.
- 2. Open the back cover.



3. Pull the tabs at the left and right sides toward you to release the fusing unit cover.



WARNING

HOT SURFACE

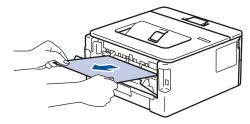
The machine's internal parts will be extremely hot. Wait for the machine to cool down before touching them.



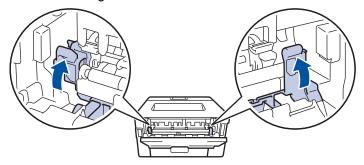


If the envelope levers inside the back cover are pulled down to the envelope position, lift these levers to the original position before pulling the tabs down.

4. Use both hands to gently pull the jammed paper out of the fusing unit.



5. Close the fusing unit cover.





If you print on envelopes, pull down the envelope levers to the envelope position again before closing the back cover.

6. Close the back cover until it locks in the closed position.

✓

Related Information

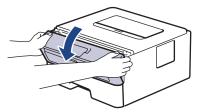
• Paper Jams

▲ Home > Troubleshooting > Paper Jams > Paper is Jammed inside the Machine

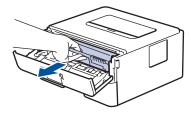
Paper is Jammed inside the Machine

If the machine's control panel or the Status Monitor indicates that there is a jam inside the machine, follow these steps:

- 1. Leave the machine turned on for 10 minutes for the internal fan to cool the extremely hot parts inside the machine.
- 2. Open the front cover.



3. Remove the toner cartridge and drum unit assembly.



WARNING

HOT SURFACE

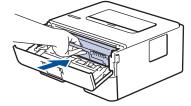
The machine's internal parts will be extremely hot. Wait for the machine to cool down before touching them.



4. Pull out the jammed paper slowly.



5. Install the toner cartridge and drum unit assembly into the machine.



6. Close the front cover.



Related Information

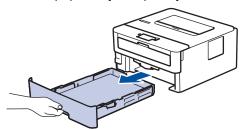
· Paper Jams

▲ Home > Troubleshooting > Paper Jams > Paper is Jammed in the 2-sided Tray

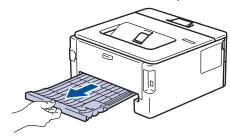
Paper is Jammed in the 2-sided Tray

If the machine's control panel or the Status Monitor indicates that there is a jam in the 2-sided paper tray, follow these steps:

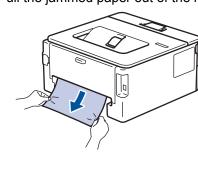
- 1. Leave the machine turned on for 10 minutes for the internal fan to cool the extremely hot parts inside the machine.
- 2. Pull the paper tray completely out of the machine.



3. At the back of the machine, pull the 2-sided tray completely out of the machine.

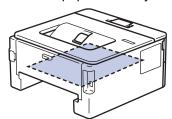


4. Pull the jammed paper out of the machine or out of the 2-sided tray.

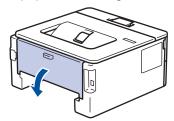




5. Remove paper that may have jammed under the machine due to static electricity.



6. If paper is not caught inside the 2-sided tray, open the back cover.



MARNING

HOT SURFACE

The machine's internal parts will be extremely hot. Wait for the machine to cool down before touching them.



7. Use both hands to gently pull the jammed paper out of the back of the machine.



- 8. Close the back cover until it locks in the closed position.
- 9. Put the 2-sided tray firmly back in the rear of the machine.
- 10. Put the paper tray firmly back in the front of the machine.

V

Related Information

· Paper Jams

Printing Problems

Difficulties	Suggestions	
No printout	Check the machine is not in Power Off mode.	
	If the machine is in Power Off mode, press (1) on the control panel, and then send the print data again.	
	Check that the correct printer driver has been installed and selected.	
	Check to see if the Status Monitor or the machine's control panel displays an error status.	
	Check that the machine is online:	
	Windows [®] 7 and Windows Server [®] 2008 R2	
	Click 🚱 (Start) >Devices and Printers. Right-click	
	RICOH SP 230DNw and click See what's printing. Click Printer in the menu bar. Make sure Use Printer Offline is not selected.	
	Windows Server® 2008	
	Click 🚱 (Start) >Control Panel > Hardware and	
	Sound > Printers. Right-click RICOH SP 230DNw. Make sure Use Printer Online is not listed. If it is listed, click this option to set the driver Online.	
	Windows [®] 8.1 and Windows Server [®] 2012	
	Move your mouse to the lower right corner of your desktop. When the menu bar appears, click Settings > Control Panel > Hardware and Sound > View devices and printers. Right-click the RICOH SP 230DNw. Click See what's printing. If printer driver options appear, select your printer driver. Click Printer in the menu bar and make sure that Use Printer Offline is not selected.	
	Windows [®] 10 and Windows Server [®] 2016	
	Click = > Windows System > Control Panel. In	
	the Hardware and Sound group, click View devices and printers. Right-click the RICOH SP 230DNw. Click See what's printing. If printer driver options appear, select your printer driver. Click Printer in the menu bar and make sure that Use Printer Offline is not selected.	
	Windows Server® 2012 R2	
	Click Control Panel on the Start screen. In the Hardware group, click View devices and printers. Right-click the RICOH SP 230DNw. Click See what's printing. If printer driver options appear, select your printer driver. Click Printer in the menu bar and make sure Use Printer Offline is not selected.	
	• Mac	
	Click the System Preferences menu, and then select the Printers & Scanners option. When the machine is offline, delete it using the button, and then add it	
	using the + button.	

Difficulties	Suggestions
The machine is not printing or has stopped printing.	Cancel the print job and clear it from the machine's memory. The printout may be incomplete. Send the print data again. See Related Information: Cancel a Print Job.
The headers or footers appear when the document displays on the screen but they do not show up when it is printed.	There is an unprintable area on the top and bottom of the page. Adjust the top and bottom margins in your document to allow for this.
The machine prints unexpectedly or it prints garbage.	Cancel the print job and clear it from the machine's memory. The printout may be incomplete. Send the print data again. See Related Information:Cancel a Print Job.
	Check the settings in your application to make sure they are set up to work with your machine.
	Confirm that the printer driver is selected in your application's Print window.
The machine prints the first couple of pages correctly, then some pages have missing text.	Check the settings in your application to make sure they are set up to work with your machine.
	Your machine is not receiving all of the data sent from the computer. Make sure you connected the interface cable correctly.
The machine does not print on both sides of the paper even though the printer driver setting is 2-sided and the machine supports automatic 2-sided printing.	Check the paper size setting in the printer driver. You must select A4 paper that is 60 to 105 g/m ² .
Print speed is too slow.	Try changing the printer driver setting. The highest resolution needs longer data processing, sending and printing time.
	If you have enabled the Quiet Mode, disable the Quiet Mode on the printer driver or the machine's menu setting.
The machine does not feed paper.	If there is paper in the paper tray, make sure it is straight. If the paper is curled, straighten it. Sometimes it is helpful to remove the paper, turn the stack over and place it back in the paper tray.
	Reduce the amount of paper in the paper tray, and then try again.
	Make sure Manual is not selected for Paper Source in the printer driver.
	Clean the paper pick-up rollers.
The machine does not feed paper from the Manual feed slot.	Use both hands to push one sheet of paper firmly into the manual feed slot until the top edge of the paper presses against the paper feed rollers. Continue pressing the paper against the rollers until the machine grabs the paper and pulls it in further.
	Put only one sheet of paper in the manual feed slot.
	Make sure Manual is selected as Paper Source in the printer driver.
The machine does not feed envelopes.	Load one envelope at a time in the manual feed slot. Your application must be set to print the envelope size you are using. This is usually done in the Page Setup or Document Setup menu of your application.

1

Related Information

• Troubleshooting

Related Topics

- Monitor the Status of the Machine from Your Computer (Windows®)
- Monitor the Status of the Machine from Your Computer (Mac)
- · Cancel a Print Job
- Clean the Paper Pick-up Rollers

▲ Home > Troubleshooting > Improve the Print Quality

Improve the Print Quality

If you have a print quality problem, print a test page first. If the printout looks good, the problem is probably not the machine. Check the interface cable connections and try printing a different document. If the printout or test page printed from the machine has a quality problem, check the examples of poor print quality and follow the recommendations in the table.

IMPORTANT

Using non-genuine supplies may affect the print quality, hardware performance, and machine reliability.

- 1. To get the best print quality, we suggest using recommended print media. Make sure you use paper that meets our specifications.
- 2. Check that the toner cartridge and drum unit are installed correctly.

Examples of poor print quality Recommendation		
Examples of poor print quality		
ABCDEFGH	 If the machine indicates Replace Toner status, install a new toner cartridge. 	
abcdefghijk ABCD	 Check the machine's environment. Conditions such as humidity, high temperatures, and so on, may cause this print fault. 	
abcde 01234 Faint	 If the whole page is too light, Toner Save may be turned on. Turn off Toner Save mode in the machine's menu settings or the printer driver. 	
	Clean the drum unit.	
	Clean the corona wire on the drum unit.	
	Replace the toner cartridge with a new toner cartridge.	
	Replace the drum unit with a new drum unit.	
ABCDEFGH	Check the machine's environment. Conditions such as high temperatures and high humidity can increase the amount of background shading.	
abcdefghijk A B C D	Clean the drum unit.	
abcde	Replace the toner cartridge with a new toner cartridge.	
01234	Replace the drum unit with a new drum unit.	
Grey background		
В	 Check the machine's environment. Conditions such as low humidity and low temperatures may cause this print quality problem. 	
B	Select the appropriate media type in the printer driver.	
	Select the appropriate media type in the menu setting.	
В	 Make sure the two levers inside the back cover are in the up position. Pull up the two levers until they stop. 	
Ghosting images		

Examples of poor print quality	Recommendation
ABCDEFGH abcdefghijk ABCD abcde 01234 Toner specks	 Clean the drum unit. Replace the drum unit with a new drum unit. Replace the toner cartridge with a new toner cartridge. The fusing unit may be contaminated. Contact your service representative. Make sure the media type setting in the driver matches the type of paper you are using. Clean the drum unit. The toner cartridge may be damaged. Replace the toner cartridge with a new toner cartridge. The drum unit may be damaged. Replace the drum unit with a new drum unit. The fusing unit may be contaminated. Contact your service representative. Select Thick Paper mode in the printer driver or use thinner paper than you are currently using. Select the appropriate media type in the menu setting. Check the machine's environment. Conditions such as high humidity can cause hollow print. The drum unit may be damaged. Replace the drum unit with a new drum unit. Clean the corona wire inside the drum unit. The drum unit may be damaged. Replace the drum unit with a new drum unit.
All black ABCDEFGH abcdefghijk ABCD abcde 01234 White lines across the page ABCDEFGH abcdefghijk ABCD	 Select the appropriate media type in the printer driver. Select the appropriate media type in the menu setting. The problem may disappear by itself. Print multiple blank pages to clear this problem, especially if the machine has not been used for a long time. Clean the drum unit. The drum unit may be damaged. Replace the drum unit with a new drum unit. Clean the drum unit. The drum unit may be damaged. Replace the drum unit with a new drum unit.
Lines across the page ABCDEFUR abcdefghijk ABCDE abcde abcde abcde abcde	 Check the machine's environment. Conditions such as high humidity and high temperatures may cause this print quality problem. Clean the drum unit. If the problem is not solved after printing a few pages, replace the drum unit with a new drum unit.

Examples of poor print quality	Recommendation		
White lines, bands or ribbing across the page			
94 mm 94 mm	 If the problem is not solved after printing a few pages, the drum unit may have foreign material, such as glue from a label, stuck on the drum. Clean the drum unit. See Related Information: Clean the Drum Unit Using Drum Dot Print. The drum unit may be damaged. 		
• •	Replace the drum unit with a new drum unit.		
White Spots on black text and graphics at 94 mm intervals	replace the druff unit with a flew druff unit.		
94 mm 94 mm Black spots at 94 mm intervals			
ABCDEFGH abcdefghijk	If you use label sheets for laser printers, the glue from the sheets may sometimes stick to the drum surface. Clean the drum unit.		
ABCD	See Related Information:Clean the Drum Unit Using Drum Dot Print.		
abcde 01234	If you used paper that has clips or staples, the drum unit may be damaged.		
Black toner marks across the page	If the unpacked drum unit is in direct sunlight (or room light for long periods of time), the unit may be damaged.		
	Clean the drum unit.		
	The toner cartridge may be damaged.		
	Replace the toner cartridge with a new toner cartridge.		
	The drum unit may be damaged.		
	Replace the drum unit with a new drum unit.		
ABCDEFGH	Clean the corona wire inside the drum unit by sliding the tab.		
abcdefghijk ABCD	Make sure that the tab on the drum unit is in the Home position.		
abcde	The toner cartridge may be damaged.		
01234	Replace the toner cartridge with a new toner cartridge.		
Black lines down the page	The drum unit may be damaged.		
Printed pages have toner stains down the page	Replace the drum unit with a new drum unit.		
	The fusing unit may be contaminated. Contact your service representative.		
	Contact your service representative.		
ABCDEFGH abcdefghijk	 Make sure foreign material such as a torn piece of paper, sticky notes or dust is not inside the machine and around the toner cartridge and drum unit. 		
ABCD	The toner cartridge may be damaged.		
abcde	Replace the toner cartridge with a new toner cartridge.		
01234	The drum unit may be damaged.		
White lines down the page	Replace the drum unit with a new drum unit.		

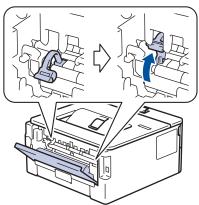
Examples of poor print quality Recommendation	
ABCDEFGH abcdefghijk ABCD abcde 01234 Image skewed	 Make sure the paper or other print media is loaded correctly in the paper tray and the guides are not too tight or too loose against the paper stack. Set the paper guides correctly. The paper tray may be too full. Check the paper type and quality. Check for loose objects such as torn paper inside the machine. If the problem only occurs during automatic 2-sided printing, check for torn paper in the 2-sided tray. Verify the 2-sided tray is inserted completely and the back cover is closed completely.
ABCDEFGH abcdefghijk ABCD abcde 01234 Curled or wavy image	 Check the paper type and quality. High temperatures and high humidity will cause paper to curl. If you do not use the machine often, the paper may have been in the paper tray too long. Turn over the stack of paper in the paper tray. Also, fan the paper stack, and then rotate the paper 180° in the paper tray. Open the back cover (face up output tray) to let the printed paper exit onto the face up output tray. Choose Reduce Paper Curl mode in the printer driver when you do not use our recommended print media.
ABCDEFGH abcdefghijk ABCD abcde 01234 Wrinkles or creases	 Make sure paper is loaded correctly. Check the paper type and quality. Turn over the stack of paper in the tray or rotate the paper 180° in the input tray.
Poor fixing	Make sure the two levers inside the back cover are in the up position. Pull up the two levers until they stop.
	 Make sure the media type setting in the printer driver matches the type of paper you are using. Choose Improve Toner Fixing mode in the printer driver. If this selection does not provide enough improvement, change the printer driver setting in Media Type to a thick setting. If you are printing an envelope, choose Env. Thick in the media type setting.

Examples of poor print quality



Recommendation

 Make sure the two levers inside the back cover are pulled down to the envelope position when you print envelopes. After you have finished printing, reset the levers back to their original position. Pull up the levers until they stop.



- Make sure envelopes are printed with the back cover (face up output tray) opened.
- (For models with Manual Feed Slot)
 Make sure envelopes are fed only from the manual feed slot.

4

Related Information

Troubleshooting

Related Topics

- Test Print
- · Clean the Drum Unit Using Drum Dot Print
- Reduce Toner Consumption
- · Replace the Toner Cartridge
- Replace the Drum Unit

▲ Home > Troubleshooting > Network Problems

Network Problems

- Error Messages
- Where Can I Find My Machine's Network Settings?
- I Cannot Complete the Wireless Network Setup Configuration
- My Machine Cannot Print over the Network
- I Want to Check that My Network Devices are Working Correctly

▲ Home > Troubleshooting > Network Problems > Error Messages

Error Messages

Your machine will display an error message if an error occurs. The most common error messages are shown in the table.

Error Messages	Cause	Action
Connection Error	Other devices are trying to connect to the Wi-Fi Direct [®] network at the same time.	Make sure there are no other devices trying to connect to the Wi-Fi Direct [®] network, and then try to configure the Wi-Fi Direct [®] settings again.
Connection Fail	The machine and your mobile device cannot communicate during the Wi-Fi Direct [®] network configuration.	 Move the mobile device closer to your machine. Move your machine and the mobile device to an obstruction-free area. If you are using the PIN Method of WPS, make sure you have entered the correct PIN.
No Device	When configuring the Wi-Fi Direct® network, the machine cannot find your mobile device.	 Make sure your machine and mobile device are in the Wi-Fi Direct[®] mode. Move the mobile device closer to your machine. Move your machine and the mobile device to an obstruction-free area. If you are manually configuring the Wi-Fi Direct[®] network, make sure you have entered the correct password. If your mobile device has a configuration page for how to obtain an IP address, make sure the IP address of your mobile device has been configured via DHCP.

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Related Information

Network Problems

▲ Home > Troubleshooting > Network Problems > Where Can I Find My Machine's Network Settings?

Where Can I Find My Machine's Network Settings?

- Print the Network Configuration Report
- Change Machine Settings from Your Computer

▲ Home > Troubleshooting > Network Problems > I Cannot Complete the Wireless Network Setup Configuration

I Cannot Complete the Wireless Network Setup Configuration

Turn your wireless router off and back on. Then try to configure the wireless settings again. If you are unable to resolve the problem, follow the instructions below:

Investigate the problem using the WLAN Report.

Cause	Action	Interface
Your security settings (SSID/ Network Key) are not correct.	 Select and confirm that you are using the correct security settings. See the instructions supplied with your wireless LAN access point/router for information on how to find the security settings. The manufacturer's name or model number of the wireless LAN access point/router may be used as the default security settings. Consult with the access point/router manufacturer, your Internet provider, or network administrator. 	Wireless
Your machine's MAC address is not allowed.	Confirm that the machine's MAC Address is allowed in the filter. You can find the MAC Address on your machine's control panel.	Wireless
Your wireless LAN access point/router is in stealth mode (not broadcasting the SSID).	 Enter the correct SSID name or Network Key manually. Check the SSID name or the Network Key in the instructions supplied with your wireless LAN access point/router and reconfigure the wireless network setup. 	Wireless
Your security settings (SSID/password) are not correct.	Confirm the SSID and password. When you are configuring the network manually, the SSID and password are displayed on your machine. If your mobile device supports the manual configuration, the SSID and password will be displayed on your mobile device's screen.	Wi-Fi Direct [®]
You are using Android [™] 4.0.	If your mobile device disconnects (approximately six minutes after using Wi-Fi Direct [®]), try the one-push configuration using WPS (recommended) and set the machine as a G/O.	Wi-Fi Direct®
Your machine is placed too far from your mobile device.	Move your machine within about 3.3 feet (1 metre) of the mobile device when you configure the Wi-Fi Direct® network settings.	Wi-Fi Direct®
There are some obstructions (walls or furniture, for example) between your machine and the mobile device.	Move your machine to an obstruction-free area.	Wi-Fi Direct®
There is a wireless computer, Bluetooth®-supported device, microwave oven, or digital cordless phone near the machine or the mobile device.	Move other devices away from the machine or the mobile device.	Wi-Fi Direct®
If you have checked and tried all of the above, but still cannot complete the Wi-Fi Direct® configuration, do the following:	 Turn your machine off and back on. Then try to configure the Wi-Fi Direct[®] settings again. If you are using your machine as a client, confirm how many devices are allowed in the current Wi-Fi Direct[®] network, and then check how many devices are connected. 	Wi-Fi Direct®

For Windows $^{\circledR}$

If your wireless connection has been interrupted, and you have checked and tried all of the above, we recommend using the Network Connection Repair Tool.



Related Information

Network Problems

Related Topics

- Configure Your Machine for a Wireless Network When the SSID Is Not Broadcast
- Use Wi-Fi Direct®

▲ Home > Troubleshooting > Network Problems > My Machine Cannot Print over the Network

My Machine Cannot Print over the Network

Cause	Action	Interface
Your security software blocks your machine's	Some security software might block access without showing a security alert dialog box even after successful installation.	Wired/Wireless
access to the network.	To allow access, see the instructions for your security software or ask the software manufacturer.	
Your machine was not	Confirm the IP address and the Subnet Mask.	Wired/Wireless
assigned an available IP address.	Verify that both the IP addresses and Subnet Masks of your computer and the machine are correct and located on the same network.	
	For more information about how to verify the IP address and the Subnet Mask, ask your network administrator.	
	• Windows®	
	Confirm the IP address and the Subnet Mask using the Network Connection Repair Tool.	
The failed print job is still	If the failed print job is still in your computer's print queue, delete it.	Wired/Wireless
in your computer's print queue.	Otherwise, double-click the printer icon in the following folder and cancel all documents:	
	- Windows® 7	
	Click (Start) > Devices and Printers > Printers and	
	Faxes.	
	- Windows [®] 8.1	
	Move your mouse to the lower right corner of your desktop. When the menu bar appears, click Settings > Control Panel. In the Hardware and Sound group, click View devices and printers > Printers.	
	- Windows [®] 10 and Windows Server [®] 2016	
	Click Windows System > Control Panel. In the	
	Hardware and Sound group, click View devices and printers > Printers.	
	- Windows Server® 2008	
	Click Start > Control Panel > Printers.	
	- Windows Server® 2012	
	Move your mouse to the lower right corner of your desktop. When the menu bar appears, click Settings > Control Panel . In the Hardware group, click View devices and printers > Printers .	
	- Windows Server [®] 2012 R2	
	Click Control Panel on the Start screen. In the Hardware group, click View devices and printers .	
	- macOS v10.11.x, v10.12.x, v10.13.x	
	Click System Preferences > Printers & Scanners.	
Your machine is not connected to the wireless network.	Print the WLAN Report to check the error code on the printed report.	Wireless

If you have checked and tried all of the above, but your machine still cannot print, uninstall the printer driver and reinstall it.



Related Information

Network Problems

Related Topics

- Print the WLAN Report
- Wireless LAN Report Error Codes
- I Want to Check that My Network Devices are Working Correctly

▲ Home > Troubleshooting > Network Problems > I Want to Check that My Network Devices are Working Correctly

I Want to Check that My Network Devices are Working Correctly

Check	Action	Interface
Check that your machine, access point/ router, or network hub is turned on.	 Check the following: The power cord is connected correctly and the machine is turned on. The access point/router or hub is turned on and its link button is blinking. All protective packaging has been removed from the machine. The toner cartridge and drum unit are installed correctly. The front and back covers are fully closed. Paper is inserted correctly in the paper tray. (For wired networks) A network cable is securely connected to the machine and to the router or hub. 	Wired/Wireless
Check the Link Status in the Network Configuration Report or the Printer Settings page.	Print the Network Configuration Report and check that Ethernet Link Status or Wireless Link Status is Link OK .	Wired/Wireless
Check that you can "ping" the machine from your computer.	Ping the machine from your computer using the IP address or the node name in the Windows® command prompt or Mac Terminal application: ping <ipaddress> or <nodename>. • Successful: Your machine is working correctly and connected to the same network as your computer. • Unsuccessful: Your machine is not connected to the same network as your computer. (Windows®) Ask the network administrator and use the Network Connection Repair Tool to fix the IP address and the subnet mask. (Mac) Confirm that the IP address and the Subnet Mask are set correctly.</nodename></ipaddress>	Wired/Wireless
Check that your machine is connected to the wireless network.	Print the WLAN Report to check the error code on the printed report.	Wireless

If you have checked and tried all of the above but you are still having problems, see the instructions supplied with your wireless LAN access point/router to find the SSID and the Network Key information and set them correctly.

V

Related Information

Network Problems

Related Topics

- · Print the Network Configuration Report
- Print the WLAN Report
- · Wireless LAN Report Error Codes
- My Machine Cannot Print over the Network

▲ Home > Troubleshooting > Google Cloud Print Problems

Google Cloud Print Problems

Difficulty	Suggestions
My machine is not displayed in the printer list.	Make sure your machine is turned on.
	Confirm that Google Cloud Print [™] is enabled.
	Confirm that your machine is registered with Google Cloud Print™. If it is not registered, try to register again.
I cannot print.	Make sure your machine is turned on.
	Confirm your network settings. See Related Information.
	Certain files may not be printable, or may not appear exactly as they are displayed.
I cannot register my Machine with Google Cloud Print [™] .	Make sure your machine is connected to a network with Internet access.
	Verify that the date and time are set correctly on your machine.
I do not see a confirmation message on my Machine when I try to register with Google Cloud Print [™] , even after repeating the registration steps.	Make sure your machine is idle while you are registering with Google Cloud $Print^TM$.

✓

Related Information

Troubleshooting

Related Topics

• Network Settings for Using Google Cloud Print

▲ Home > Troubleshooting > AirPrint Problems

AirPrint Problems

Difficulty	Suggestions
My machine is not displayed in the printer list.	Make sure your machine is turned on.
	Confirm the network settings. See Related Information.
	Move the mobile device closer to the wireless access point/router, or to your machine.
I cannot print.	Make sure your machine is turned on.
	Confirm the network settings. See Related Information.
I am trying to print a multiple-page document from an iOS	Make sure you are running the latest OS version.
device, but ONLY the first page is printing.	Refer to the following Apple support article for more information about AirPrint: support.apple.com/kb/HT4356 .



Related Information

• Troubleshooting

Related Topics

AirPrint Overview

▲ Home > Troubleshooting > Other Problems

Other Problems

Difficulties	Suggestions
The machine will not turn on.	Adverse conditions on the power connection (such as lightning or a power surge) may have triggered the machine's internal safety mechanisms. Unplug the power cord. Wait for ten minutes, then plug in the power cord and press (1) to turn on the machine. If the problem is not solved and you are using a power breaker, disconnect it to make sure it is not the problem. Plug the machine's power cord directly into a different known working wall electrical socket. If there is still no power, try a different power cable.
The software cannot be installed.	(Windows®)
	If the Security Software warning appears on the computer screen during the installation, change the Security Software settings to permit the product setup program or other program to run.
	(Mac)
	If you are using a firewall function of anti-spyware or antivirus security software, temporarily disable it and then install the software.

4

Related Information

• Troubleshooting

▲ Home > Troubleshooting > Machine Information

Machine Information

- Check the Serial Number
- Check the Firmware Version
- Reset Functions Overview
- Reset Your Machine

▲ Home > Troubleshooting > Machine Information > Check the Serial Number

Check the Serial Number

- 1. Press ▲ or ▼ to select the [Machine Info.] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Serial No.] option, and then press OK.

The machine displays the serial number on the LCD.

Related Information

· Machine Information

▲ Home > Troubleshooting > Machine Information > Check the Firmware Version

Check the Firmware Version

- 1. Press \blacktriangle or \blacktriangledown to display the [Machine Info.] option, and then press **OK**.
- 2. Press ▲ or ▼ to display the [Firmware Version] option, and then press OK.

The machine displays the firmware version on the LCD.

Rel

Related Information

· Machine Information

▲ Home > Troubleshooting > Machine Information > Reset Functions Overview

Reset Functions Overview

The following reset functions are available:



Unplug the interface cable before you choose Network Settings Reset function or Factory Reset function.



Subdivided reset functions are not available for some models.

1. Machine Reset

This function resets the following settings:

- · Setting Lock
- Language Setting
- 2. Network Settings Reset

Reset the print server back to its default factory settings (includes Password and IP Address information).

3. Factory Reset

We strongly recommend you perform this operation when you dispose of the machine.

\checkmark

Related Information

· Machine Information

▲ Home > Troubleshooting > Machine Information > Reset Your Machine

Reset Your Machine

- 1. Press \blacktriangle or \blacktriangledown to display the <code>[Initial Setup]</code> option, and then press **OK**.
- 2. Press ▲ or ▼ to display the [Reset] option, and then press OK.
- 3. Press ▲ or ▼ to choose the type of reset you want to perform, and then press **OK**.
- 4. Press ▼.
- 5. Press ▼ for [Yes].

The machine will restart.

Related Information

Machine Information

▲ Home > Routine Maintenance

Routine Maintenance

- Replace Supplies
- Clean the Machine
- Check the Remaining Part Life

▲ Home > Routine Maintenance > Replace Supplies

Replace Supplies

You must replace supplies when the machine indicates that the life of the supply is over.

Using non-genuine supplies may affect the print quality, hardware performance, and machine reliability. The toner cartridge and drum unit are two separate supplies. Make sure both are installed as an assembly. The model name of supplies may vary depending on the country.

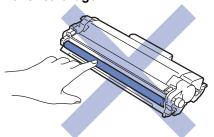
NOTE

- Be sure to seal up the used supplies tightly in a bag so that toner powder does not spill out of the cartridge.
- Visit <u>www.ricoh-return.com</u> for instructions on how to return your used supplies to our collection and recycling program. If you choose not to return your used supply, discard the used supply according to local regulations, keeping it separate from domestic waste. If you have questions, contact your local waste disposal office.
- We recommend placing used and new supplies on a piece of paper to prevent accidentally spilling or scattering the material inside.
- If you use paper that is not a direct equivalent for the recommended print media, the life of supplies and machine parts may be reduced.
- The projected life for each of the toner cartridges is based on ISO/IEC 19752. Frequency of replacement will vary depending on the print volume, percentage of coverage, types of media used, and powering on/off the machine.
- Frequency of replacing supplies except toner cartridges will vary depending on the print volume, types of media used, and powering on/off the machine.
- Handle the toner cartridge carefully. If toner scatters on your hands or clothes, immediately wipe or wash
 it off with cold water.

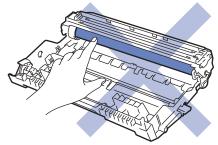
IMPORTANT

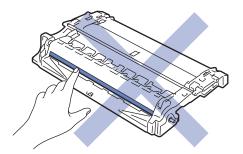
• To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.

Toner cartridge



Drum unit





✓

Related Information

- Routine Maintenance
 - Replace the Toner Cartridge
 - Replace the Drum Unit

Related Topics

- Error and Maintenance Messages
- Supplies

Replace the Toner Cartridge

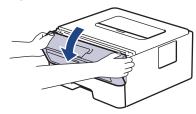
WARNING



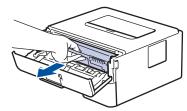




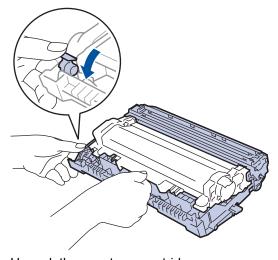
- 1. Make sure the machine is turned on.
- 2. Open the front cover.



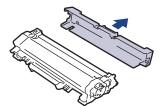
3. Remove the toner cartridge and drum unit assembly from the machine.



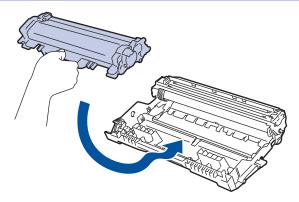
4. Push down the lock lever and take the toner cartridge out of the drum unit.



- 5. Unpack the new toner cartridge.
- 6. Remove the protective cover.



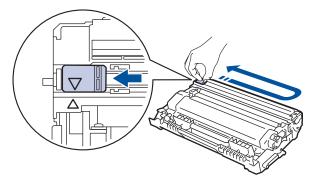
7. Push the new toner cartridge firmly into the drum unit until you hear it lock into place.





Make sure you put the toner cartridge in correctly or it may separate from the drum unit.

8. Clean the corona wire inside the drum unit by gently sliding the tab from left to right and right to left several times.





Be sure to return the tab to the Home position (\blacktriangle). The arrow on the tab must be aligned with the arrow on the drum unit. If it is not, printed pages may have a vertical stripe.

9. Install the toner cartridge and drum unit assembly back into the machine.



10. Close the front cover of the machine.



- Do not turn off the machine or open the front cover until the machine returns to Ready Mode.
- The toner cartridge that comes with your machine is a Inbox toner cartridge.
- It is a good idea to keep a new toner cartridge ready for use when you see the Toner Low warning.
- To ensure high quality printing, we recommend using only genuine toner cartridges. When you want to buy toner cartridges, contact your local dealer.
- · DO NOT unpack the new toner cartridge until you are ready to install it.
- If a toner cartridge is left unpacked for a long time, the toner life will be shortened.
- We strongly recommend you DO NOT refill the toner cartridge provided with your machine. We also
 strongly recommend you continue to use only genuine replacement toner cartridges. Use or attempted
 use of third party toner and/or cartridges in the machine may cause damage to the machine and/or may
 result in unsatisfactory print quality. Our limited warranty coverage does not apply to any problem that is
 caused by the use of third party toner and/or cartridges. To protect your investment and obtain premium
 performance from the machine, we strongly recommend the use of genuine supplies.



Related Information

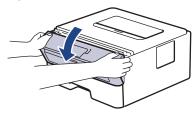
Replace Supplies

Related Topics

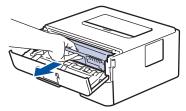
• Improve the Print Quality

Replace the Drum Unit

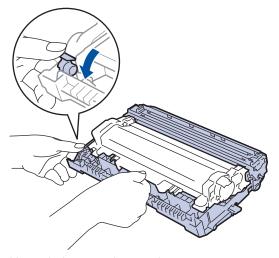
- 1. Make sure the machine is turned on.
- 2. Open the front cover.



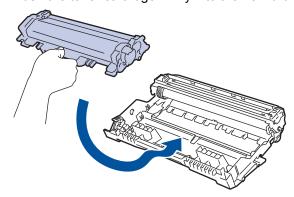
3. Remove the toner cartridge and drum unit assembly from the machine.



4. Push down the lock lever and take the toner cartridge out of the drum unit.



- 5. Unpack the new drum unit.
- 6. Push the toner cartridge firmly into the new drum unit until you hear it lock into place.



Make sure you put the toner cartridge in correctly or it may separate from the drum unit.

7. Install the toner cartridge and drum unit assembly back into the machine.



8. Close the front cover of the machine.

NOTE

- Drum wear and tear occurs due to use and rotation of the drum and interaction with paper, toner and other materials in the paper path. In designing this product, we decided to use the number of rotations of the drum as a reasonable determinant of the drum life. When a drum reaches the factory-established rotation limit corresponding to the rated page yield, the product's LCD will advise you to replace the drum. The product will continue to function; however, print quality may not be optimal.
- If an unpacked drum unit is placed in direct sunlight (or room light for long periods of time), the unit may be damaged.
- There are many factors that determine the actual drum life, such as the temperature, humidity, type of paper, type of toner used and so on. Under ideal conditions, the average drum life is estimated at approximately 12,000 pages (based on 1 page per job [A4/Letter single-sided pages]. The number of pages may be affected due to a variety of factors including but not limited to media type and media size. Because we have no control over the many factors that determine the actual drum life, we cannot guarantee a minimum number of pages that will be printed by your drum.
- For best performance, use only genuine toner.
- The machine should be used only in a clean, dust-free environment with adequate ventilation.
- Printing with a non-genuine drum unit may reduce not only the print quality but also the quality and life of the machine itself. Warranty coverage does not apply to problems caused by the use of a non-genuine drum unit.



Related Information

· Replace Supplies

Related Topics

- · Error and Maintenance Messages
- Improve the Print Quality

▲ Home > Routine Maintenance > Clean the Machine

Clean the Machine

Clean the outside and inside of the machine regularly with a dry, lint-free cloth.

When you replace the toner cartridge or the drum unit, make sure you clean the inside of the machine. If printed pages are stained with toner, clean the inside of the machine with a dry, lint-free cloth.

WARNING

 DO NOT use flammable substances, any type of spray, or an organic solvent/liquid containing alcohol or ammonia to clean the inside or outside of the product. Doing so could cause a fire. Instead, use only a dry, lint-free cloth.



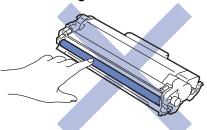




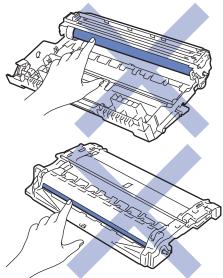
IMPORTANT

- DO NOT use isopropyl alcohol to remove dirt from the control panel. It may crack the panel.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.

Toner cartridge



Drum unit



4

Related Information

- Routine Maintenance
 - · Clean the Corona Wire
 - · Clean the Drum Unit Using Drum Dot Print

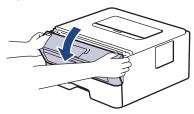
• Clean the Paper Pick-up Rollers

▲ Home > Routine Maintenance > Clean the Machine > Clean the Corona Wire

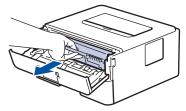
Clean the Corona Wire

If you have print quality problems or the control panel displays [Drum !] status, clean the corona wire.

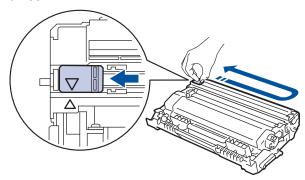
1. Open the front cover.



2. Remove the toner cartridge and drum unit assembly from the machine.



3. Clean the corona wire inside the drum unit by gently sliding the tab from left to right and right to left several times.





Be sure to return the tab to the Home position (**A**). The arrow on the tab must be aligned with the arrow on the drum unit. If it is not, printed pages may have a vertical stripe.

4. Install the toner cartridge and drum unit assembly back into the machine.



5. Close the front cover of the machine.

Related Information

· Clean the Machine

Related Topics

· Error and Maintenance Messages

▲ Home > Routine Maintenance > Clean the Machine > Clean the Drum Unit Using Drum Dot Print

Clean the Drum Unit Using Drum Dot Print

If your printout has dots or other repeating marks at 94 mm intervals, the drum may have foreign material, such as glue from a label, stuck on the drum surface.

- 1. Make sure the machine is in Ready mode.
- 2. Press ▲ or ▼ to display the [Print Reports] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Drum Dot Print] option.
- 4. Press Go.

The machine prints the Drum Dot Check Sheet.

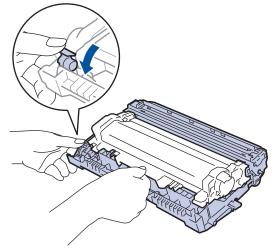
- 5. Press and hold (1) to turn the machine off.
- 6. Open the front cover.



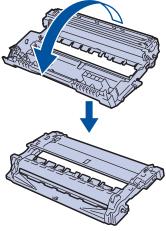
7. Remove the toner cartridge and drum unit assembly from the machine.



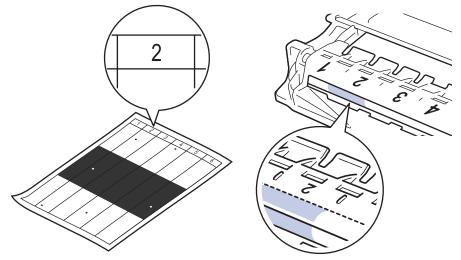
8. Push down the lock lever and take the toner cartridge out of the drum unit.



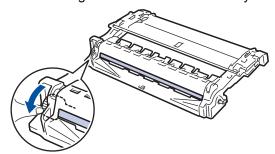
9. Turn the drum unit as shown in the illustration. Make sure that the drum unit gear is on the left side.



10. Use the numbered markers next to the drum roller to find the mark on the drum. For example, a dot in column 2 on the check sheet means that there is a mark in drum region "2".

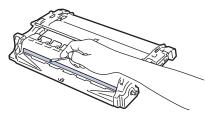


11. Turn the edge of the drum unit towards you while looking at the drum surface to find the mark.



IMPORTANT

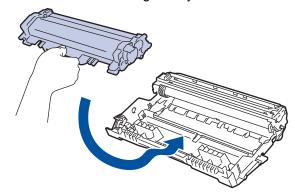
- To avoid print quality problems, DO NOT touch the surface of the drum unit, only the wheel on the end.
- 12. Wipe the surface of the drum gently with a dry cotton swab until the mark or foreign material on the surface comes off.



NOTE

DO NOT clean the surface of the photosensitive drum with a sharp object or any liquids.

13. Push the toner cartridge firmly into the drum unit until you hear it lock into place.





Make sure you put the toner cartridge in correctly or it may separate from the drum unit.

14. Install the toner cartridge and drum unit assembly back into the machine.



- 15. Close the front cover of the machine.
- 16. Press (b) to turn the machine on.



Related Information

· Clean the Machine

Related Topics

• Improve the Print Quality

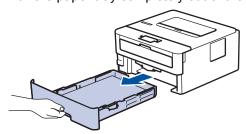
▲ Home > Routine Maintenance > Clean the Machine > Clean the Paper Pick-up Rollers

Clean the Paper Pick-up Rollers

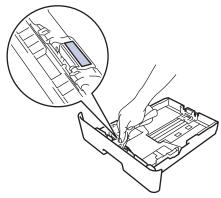
Cleaning the paper pick-up rollers periodically may prevent paper jams by ensuring that paper feeds properly.

If you have paper feed problems, clean the pick-up rollers as follows:

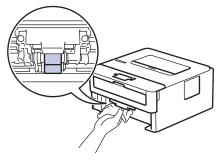
- 1. Press and hold (1) to turn the machine off.
- 2. Pull the paper tray completely out of the machine.



- 3. If paper is loaded or something is stuck inside in the paper tray, remove it.
- 4. Tightly wring out a lint-free cloth soaked in lukewarm water, and then wipe the separator pad on the paper tray to remove dust.



5. Wipe the two pick-up rollers inside the machine to remove dust.



- 6. Reload the paper and put the paper tray firmly back in the machine.
- 7. Press () to turn the machine on.

Related Information

· Clean the Machine

Related Topics

Printing Problems

▲ Home > Routine Maintenance > Check the Remaining Part Life

Check the Remaining Part Life

- 1. Press \blacktriangle or \blacktriangledown to display the <code>[Machine Info.]</code> option, and then press OK.
- 2. Press \blacktriangle or \blacktriangledown to select the <code>[Parts Life]</code> option, and then press **OK**.
- 3. Press ▲ or ▼ to select the machine part you want to check, and then press **OK**. The LCD displays the approximate remaining part life.

Related Information

· Routine Maintenance

▲ Home > Machine Settings

Machine Settings

Customise settings and features, create shortcuts, and work with options displayed on the machine's LCD to make your machine a more efficient work tool.

- Change Machine Settings from the Control Panel
- Change Machine Settings from Your Computer

▲ Home > Machine Settings > Change Machine Settings from the Control Panel

Change Machine Settings from the Control Panel

- General Settings
- Menu Table

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > General Settings

General Settings

- Set Sleep Mode Countdown
- About Deep Sleep Mode
- · Set Auto Power Off Mode
- Reduce Toner Consumption
- Reduce Printing Noise
- Change the Language on the LCD

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > General Settings > Set Sleep Mode Countdown

Set Sleep Mode Countdown

The Sleep Mode (or Power Save Mode) setting can reduce power consumption. Select how long the machine must be idle before it goes into Sleep Mode. The Sleep Mode timer is reset when the machine receives a print job.

When the machine is in Sleep Mode, it acts as if it is turned off. The machine will wake up and start printing when it receives a print job. Use these instructions to set a time delay (countdown) before the machine enters Sleep Mode.

- 1. Press ▲ or ▼ to select the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to select the [Ecology] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Sleep Time] option, and then press OK.
- 4. Press ▲ or ▼ to enter the length of time, in minutes, that the machine should remain idle before entering Sleep Mode.

Press Go.

Related Information

· General Settings

Related Topics

· Energy Saving Functions

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > General Settings > About Deep Sleep Mode

About Deep Sleep Mode

If the machine is in Sleep mode and does not receive any jobs for certain length of time, the machine will automatically enter Deep Sleep mode. The length of time is based on your specific model and settings. Deep Sleep mode uses less power than Sleep mode.

Applicable Models	Machine's Control Panel in Deep Sleep Mode	Conditions That Will Wake the Machine
SP 230DNw	The LCD displays Deep Sleep.	The machine receives a job.
		Someone presses a button on the control panel.

✓

Related Information

General Settings

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > General Settings > Set Auto Power Off Mode

Set Auto Power Off Mode

If the machine is in Deep Sleep Mode for certain length of time, based on your model and settings, the machine will go into Power Off Mode automatically. The machine does not go into Power Off Mode when the machine is connected to a network.

To start printing, press (1) on the control panel and then send a print job.



Select how long the machine must be in Deep Sleep Mode before it goes into Auto Power Off Mode.

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to display the [Ecology] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Auto Power Off] option, and then press OK.
- 4. Press ▲ or ▼ to select the option you want, and then press Go.

Related Information

General Settings

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > General Settings > Reduce Toner Consumption

Reduce Toner Consumption

Using the Toner Save feature may reduce toner consumption. When Toner Save is set to on, the print on your documents appears lighter.

We DO NOT recommend using the Toner Save feature for printing photo or greyscale images.

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to display the [Ecology] option, and then press OK.
- 3. Press ▲ or ▼ to display the [Toner Save] option, and then press OK.
- 4. Press **∆** or **▼** to display [On], and then press **Go**.

Related Information

· General Settings

Related Topics

· Improve the Print Quality

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > General Settings > Reduce Printing Noise

Reduce Printing Noise

The Quiet Mode setting can reduce printing noise. When Quiet Mode is turned on, the print speed becomes slower. The factory setting is off.

- 1. Press ▲ or ▼ to display the [General Setup] option, and then press OK.
- 2. Press ▲ or ▼ to display the [Ecology] option, and then press OK.
- 3. Press ▲ or ▼ to select the [Quiet Mode] option, and then press OK.
- 4. Press ▲ or ▼ to display the [On] or [Off] option, and then press Go.

Re

Related Information

General Settings

■ Home > Machine Settings > Change Machine Settings from the Control Panel > General Settings > Change the Language on the LCD

Change the Language on the LCD

Change the LCD language if needed.

This feature is not available in some countries.

- 1. Press \blacktriangle or \blacktriangledown to display the <code>[Initial Setup]</code> option, and then press **OK**.
- 2. Press ▲ or ▼ to display the [Local Language] option, and then press OK.
- 3. Press ▲ or ▼ to display your language, and then press Go.

Related Information

General Settings

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > Menu Table

Menu Table

Settings Tables

▲ Home > Machine Settings > Change Machine Settings from the Control Panel > Menu Table > Settings Tables

Settings Tables

Use these tables to understand the various menus and options that you will use to set your preferences on the machine.

[General Setup]

Level 1	Level 2	Level 3	Description	
Tray Setting	Paper Type	-	Set the type of paper in the paper tray.	
	Paper Size	-	Set the size of paper.	
	Check Size -		Select whether to display a message telling you to check that the size of the paper in the machine and the machine's Paper Size setting match.	
	Manual Feed	-	Select whether to print from the Manual Feed Slot.	
Resolution	-	-	Choose a print resolution.	
Density	-	-	Increase or decrease the print density.	
Ecology	Eco Mode	-	Turn the following machine settings on at the same time. • Sleep Time: OMin	
	Toner Save	-	Increase the page yield of the toner cartridge.	
	Sleep Time	-	Set how much time will pass before the machine enters Power Saving mode.	
	Quiet Mode	-	Decrease printing noise.	
	Auto Power Off	-	Set the number of hours that the machine will remain in Deep Sleep mode before going into Power Off mode.	
Panel Control	Button Repeat -		Set the time for the LCD message to change when holding ▲ or ▼ at intervals.	
	Message Scroll	-	Set the time in seconds that an LCD message will scroll across the LCD. From Level 1=0.2 sec to Level 10=2.0 sec.	
	LCD Contrast	-	Adjust the contrast of the LCD.	
	Auto Online	-	Set the machine to return to Ready mode after it has been idle for 30 seconds.	
Setting Lock	-	-	Lock your machine's settings using the Setting Lock password.	
Interface	Select	-	Select the interface to use.	
			If you select Auto, the machine changes the interface to USB or Network depending on which interface is receiving data.	
	Auto IF Time	-	Set the time-out period for the auto interface selection.	
	Input Buffer	-	Increase or decrease the input buffer capacity.	
Replace Toner	-	-	Sets the machine to continue printing after the LCD displays Replace Toner.	

[Printer]

Level 1	Level 2	Description	
Test Print	-	Print a test page.	
2-sided	2-sided Print	Turn 2-sided printing off or on and select flip on long edge or short edge.	
	Single Image	For a print job where the last page is a 1-sided image, select the 1-sided Feed option to reduce printing time.	

Level 1	Level 2	Description	
Auto Continue	-	Select if you want the machine to clear paper size errors or media type errors automatically.	
Print Position	X Offset	Move the print start position (at the top-left corner of pages) horizontally up to -500 (left) to +500 (right) dots in 300 dpi.	
	Y Offset	Move the print start position (at the top-left corner of pages) vertically up to -500 (up) to +500 (down) dots in 300 dpi.	

[Network]

Level 1	Level 2	Level 3	Level 4	Descriptions
Wired LAN	TCP/IP	Boot Method	-	Choose the IP method that best suits your needs.
		IP Address	-	Enter the IP address.
		Subnet Mask	-	Enter the Subnet mask.
		Gateway	-	Enter the Gateway address.
		Node Name	-	Enter the Node name.
		WINS Config	-	Select the WINS configuration mode.
		WINS Server	Primary	Specify the IP address of the primary WINS server.
			Secondary	Specify the IP address of the secondary WINS server.
		DNS Server	Primary	Specify the IP address of the primary DNS server.
			Secondary	Specify the IP address of the secondary DNS server.
		APIPA	-	Allocate the IP address from the link-local address range automatically ¹ .
		IPv6	-	Enable or disable the IPv6 protocol.
	Ethernet	-	-	Choose the Ethernet link mode.
	Wired Status	-	-	Display the Ethernet link status.
	MAC Address	-	-	Display the MAC address of the machine.
	Set to Default	-	-	Restore wired network settings of your machine to the factory settings.
	Wired Enable	-	-	Turn the wired interface on or off.
WLAN	TCP/IP	Boot Method	-	Choose the IP method that best suits your needs.
		IP Address	-	Enter the IP address.
		Subnet Mask	-	Enter the Subnet mask.
		Gateway	-	Enter the Gateway address.
		Node Name	-	Enter the Node name.
		WINS Config	-	Select the WINS configuration mode.
		WINS Server	Primary	Specify the IP address of the primary WINS server.
			Secondary	Specify the IP address of the secondary WINS server.
		DNS Server	Primary	Specify the IP address of the primary DNS server.

Level 1	Level 2	Level 3	Level 4	Descriptions
WLAN	TCP/IP	DNS Server	Secondary	Specify the IP address of the secondary DNS server.
		APIPA	-	Allocate the IP address from the link-local address range automatically ¹ .
		IPv6	-	Enable or disable the IPv6 protocol.
	Setup Wizard	-	-	Configure the wireless network settings using the setup wizard.
	WLAN Assistant	-	-	Configure your wireless network settings using the installation disc.
	WPS	-	-	Configure your wireless network settings using the one-button push method.
	WPS w/PIN Code	-	-	Configure the wireless network settings using WPS with a PIN code.
	WLAN Status	Status	-	Display the wireless Ethernet link status.
		Signal	-	Display the signal condition.
		Channel	-	Display the channel in use when Status is Active.
		Speed	-	Display the connection speed when Status is Active.
		SSID	-	Display SSID.
		Comm. Mode	-	Display the current Communication mode.
	MAC Address	-	-	Display the MAC address of the machine.
	Set to Default	-	-	Restore wireless network settings of your machine to the factory settings.
	WLAN Enable	-	-	Turn the wireless interface on or off.
Wi-Fi Direct	Push Button	-	-	Configure your Wi-Fi Direct® network settings using the one-button push method quickly.
	PIN Code	-	-	Configure your Wi-Fi Direct® network settings using WPS with a PIN code quickly.
	Manual	-	-	Configure your Wi-Fi Direct® network settings manually.
	Group Owner	-	-	Set your machine as the Group Owner.
	Device Info.	Device Name	-	View your machine's device name.
		SSID	-	Display the Group Owner's SSID.
		IP Address	-	Display your machine's IP Address.
	Status Info.	Status	-	Display the Wi-Fi Direct® network status.
		Signal	-	Display the current Wi-Fi Direct [®] network signal strength.
				When your machine acts as Group Owner, the LCD always displays Strong.
		Channel	-	Display the channel in use when the Status is G/O Active Or Client Active.
		Speed	-	Display the connection speed when the Status is G/O Active Or Client Active.
	I/F Enable	-	-	Enable or disable the Wi-Fi Direct® connection.
Network Reset	-	-	-	Restore all network settings of your machine to the factory settings.

On connection to the network, if the machine's 'Boot Method' is 'Auto' the machine will attempt to set the IP address and Subnet Mask from a boot server such as DHCP. If a boot server cannot be found, an APIPA IP address will be allocated, such as 169. 254. [001-254]. [000-255]. If the 'Boot Method' of the machine is set to 'Static' you must manually enter an IP address from the machine's control panel.

[Print Reports]

Level 1	Level 2	Description	
Printer Settings	-	Print the Printer Settings page.	
Network Config	-	Print the Network Configuration Report.	
Drum Dot Print	-	Print the Drum Dot Check Sheet.	
WLAN Report	-	Print the wireless LAN connectivity diagnosis result.	

[Machine Info.]

Level 1	Level 2	Description	
Serial No.	-	Display the machine's serial number.	
Firmware Version	-	Check your machine's firmware version.	
Page Counter	-	Display the total printed pages.	
Parts Life 1 Toner Life		Display the remaining life of the toner cartridge	
	Drum Life	Display the remaining life of the drum unit.	

¹ Life is approximate and may vary by type of use.

[Initial Setup]

Level 1	Level 2	Description
Reset	Machine Reset	Restore all the machine settings that you have changed.
	Network Reset	Restore all network settings back to the factory settings.
	Factory Reset	Restores all the machine's settings to the factory defaults. Perform this operation when you dispose of your machine.
Local Language	-	Select the LCD language for your country.



Related Information

Menu Table

▲ Home > Machine Settings > Change Machine Settings from Your Computer

Change Machine Settings from Your Computer

- Change Machine Settings Using Web Based Management
- Where Can I Find My Machine's Network Settings?
- Network Management Software and Utilities

▲ Home > Machine Settings > Change Machine Settings from Your Computer > Change Machine Settings Using Web Based Management

Change Machine Settings Using Web Based Management

Web Based Management is a utility that uses a standard web browser to manage your machine using the Hyper Text Transfer Protocol (HTTP) or Hyper Text Transfer Protocol over Secure Socket Layer (HTTPS).

- What is Web Based Management?
- Access Web Based Management
- Set a Login Password for Web Based Management
- Network Management Software and Utilities

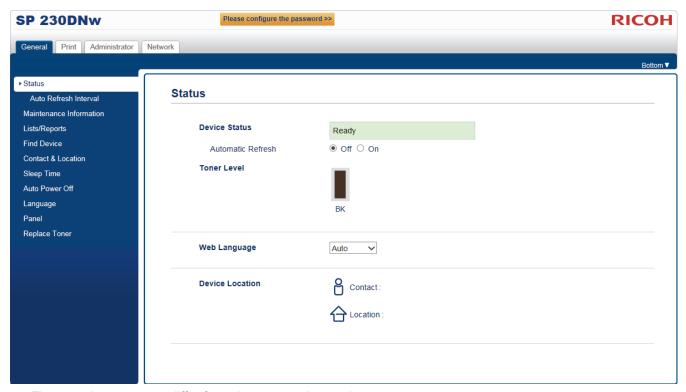
▲ Home > Machine Settings > Change Machine Settings from Your Computer > Change Machine Settings Using Web Based Management > What is Web Based Management?

What is Web Based Management?

Web Based Management is a utility that uses a standard web browser to manage your machine using the Hyper Text Transfer Protocol (HTTP) or Hyper Text Transfer Protocol over Secure Socket Layer (HTTPS). Type your machine's IP address into your web browser to access and change your print server settings.



- We recommend Microsoft[®] Internet Explorer[®] 11/Edge for Windows[®] and Safari 9/10/11 for Mac. Make sure that JavaScript and Cookies are always enabled in whichever browser you use.
- You must use the TCP/IP protocol on your network and have a valid IP address programmed into the print server and your computer.



The actual screen may differ from the screen shown above.



· Change Machine Settings Using Web Based Management

▲ Home > Machine Settings > Change Machine Settings from Your Computer > Change Machine Settings Using Web Based Management > Access Web Based Management

Access Web Based Management

- We recommend using the HTTPS security protocol when configuring settings using Web Based Management.
- When you use HTTPS for Web Based Management configuration, your browser will display a warning dialog box.
- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.

You can now change the print server settings.

If you change the protocol settings, you must restart the machine after clicking **Submit** to activate the configuration.



Related Information

Change Machine Settings Using Web Based Management

Related Topics

· Print the Network Configuration Report

▲ Home > Machine Settings > Change Machine Settings from Your Computer > Change Machine Settings Using Web Based Management > Set a Login Password for Web Based Management

Set a Login Password for Web Based Management

We recommend setting a login password to prevent unauthorised access to Web Based Management.

- 1. Start your web browser.
- 2. Type "http://machine's IP address" in your browser's address bar (where "machine's IP address" is the machine's IP address).

For example:

http://192.168.1.2



- If you are using a Domain Name System or enable a NetBIOS name, you can type another name, such as "SharedPrinter" instead of the IP address.
 - For example:

http://SharedPrinter

If you enable a NetBIOS name, you can also use the node name.

For example:

http://rinxxxxxxxxxxxxx

The NetBIOS name can be found in the Network Configuration Report.

- For Mac, access Web Based Management by clicking the machine's icon on the Status Monitor screen.
- 3. Type a password, and then click ____. The default password is "Admin". To ensure security, it is important you change the password.
- 4. Click Administrator.
- 5. Type the password you want to use in the **Enter New Password** field (8 to 32 characters).
- 6. Retype the password in the **Confirm New Password** field.
- 7. Click Submit.

After configuring the settings, log off by clicking





If you have not previously set a login password, you can also set a password by clicking the **Please configure the password** button on the machine's web page.



Related Information

Change Machine Settings Using Web Based Management

▲ Home > Information for This Machine

Information for This Machine

This chapter describes environmental precautions and regulations.

• Information on Environmental Regulations

▲ Home > Information for This Machine > Information on Environmental Regulations

Information on Environmental Regulations

- ENERGY STAR Program
- Energy Saving Functions
- User Information on Electrical and Electronic Equipment (mainly Europe)
- Note for the Battery and/or Accumulator Symbol (For EU countries only)
- Environmental Advice for Users (mainly Europe)

▲ Home > Information for This Machine > Information on Environmental Regulations > ENERGY STAR Program

ENERGY STAR Program

ENERGY STAR® Program Requirements for Imaging Equipment



This company is a participant in the ENERGY STAR® Program.

This machine is compliant with the regulations specified by the ENERGY STAR® Program.

The ENERGY STAR® Program Requirements for Imaging Equipment encourage energy conservation by promoting energy efficient computers and other office equipment.

The program backs the development and dissemination of products that feature energy saving functions.

It is an open program in which manufacturers participate voluntarily.

Targeted products are computers, monitors, printers, facsimiles, copiers, scanners, and multi-function devices. Energy Star standards and logos are internationally uniform.

Related Information

· Information on Environmental Regulations

Related Topics

Energy Saving Functions

▲ Home > Information for This Machine > Information on Environmental Regulations > Energy Saving Functions

Energy Saving Functions

To reduce its power consumption, this machine has the following functions:

Sleep mode

- If this machine remains idle for a specified period, it enters Sleep mode to further reduce its electrical consumption.
- The default delay time the machine waits before entering Sleep mode is 1 minute. This default time can be changed.
- The machine can print jobs from computers while in Sleep mode.

Specification

Reduced electrical consumption in Sleep mode 1	less than 6.0 W
Time of switch into Sleep mode	1 minute
Time of switch out from Sleep mode	9 seconds
Duplex Function 2	Standard

- 1 The time it takes to switch out from energy saving functions and electrical consumption may differ depending on the conditions and environment of the machine.
- 2 Achieves ENERGY STAR energy savings; product fully qualifies when packaged with (or used with) a duplex tray and the duplex function is enabled as an option.

NOTE

- · Specifications can vary depending on which options are installed on the machine.
- For details about how to change the default interval, see Related Information: Set Sleep Mode Countdown.
- Depending on which embedded software application is installed on it, the machine might take longer than indicated to enter Sleep mode.

Related Information

Information on Environmental Regulations

Related Topics

- ENERGY STAR Program
- · Set Sleep Mode Countdown

▲ Home > Information for This Machine > Information on Environmental Regulations > User Information on Electrical and Electronic Equipment (mainly Europe)

User Information on Electrical and Electronic Equipment (mainly Europe)

Users in the countries where this symbol shown in this section has been specified in national law on collection and treatment of E-waste

Our Products contain high quality components and are designed to facilitate recycling.

Our products or product packaging are marked with the symbol below.



The symbol indicates that the product must not be treated as municipal waste. It must be disposed of separately via the appropriate return and collection systems available. By following these instructions you ensure that this product is treated correctly and help to reduce potential impacts on the environment and human health, which could otherwise result from inappropriate handling. Recycling of products helps to conserve natural resources and protect the environment.

For more detailed information on collection and recycling systems for this product, please contact the shop where you purchased it, your local dealer or sales/service representatives.

All Other Users

If you wish to discard this product, please contact your local authorities, the shop where you bought this product, your local dealer or sales/service representatives.

For Users in India

This product including components, consumables, parts and spares complies with the "India E-waste Rule" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in the Rule.



Related Information

Information on Environmental Regulations

■ Home > Information for This Machine > Information on Environmental Regulations > Note for the Battery and/or Accumulator Symbol (For EU countries only)

Note for the Battery and/or Accumulator Symbol (For EU countries only)



In accordance with the Battery Directive 2006/66/EC Article 20 Information for end-users Annex II, the above symbol is printed on batteries and accumulators.

This symbol means that in the European Union, used batteries and accumulators should be disposed of separately from your household waste.

In the EU, there are separate collection systems for not only used electrical and electronic products but also batteries and accumulators.

Please dispose of them correctly at your local community waste collection/recycling centre.

Contact your sales or service representative to change the battery.



Related Information

• Information on Environmental Regulations

■ Home > Information for This Machine > Information on Environmental Regulations > Environmental Advice for Users (mainly Europe)

Environmental Advice for Users (mainly Europe)

Users in the EU, Switzerland and Norway

Consumables yield

Please refer to either the User's Manual for this information or the packaging of the consumable.

Recycled paper

The machine can use recycled paper which is produced in accordance with European standard EN 12281:2002 or DIN 19309. For products using EP printing technology, the machine can print on 64 g/m² paper, which contains less raw materials and represents a significant resource reduction.

Duplex printing (if applicable)

Duplex printing enables both sides of a sheet of paper to be used. This saves paper and reduces the size of printed documents so that fewer sheets are used. We recommend that this feature is enabled whenever you print.

Toner and ink cartridge return program

Toner and ink cartridge for recycling will be accepted free of charge from users in accordance with local regulations.

For details about the return program, please refer to the Web page below or consult your service person.

www.ricoh-return.com

Energy efficiency

The amount of electricity a machine consumes depends as much on its specifications as it does on the way you use it. The machine is designed to allow you to reduce electricity costs by switching to Ready mode after it prints the last page. If required, it can immediately print again from this mode.

If no additional prints are required and a specified period of time passes, the device switches to an energy saving mode.

In these modes, the machine consumes less power (watts). If the machine is to print again, it needs a little longer to return from an energy saving mode than from Ready mode.

For maximum energy savings, we recommend that the default setting for power management is used.

Products that comply with the Energy Star requirement are always energy efficient.



Related Information

· Information on Environmental Regulations

▲ Home > Appendix

Appendix

- Specifications
- How to Enter Text on Your Machine
- Supplies
- Information Regarding Recycled Paper
- Contacting Us

▲ Home > Appendix > Specifications

Specifications

- >> General Specifications
- >> Print Media Specifications
- >> Printer Specifications
- >> Interface Specifications
- >> Supported Protocols and Security Features
- >> Computer Requirements Specifications

General Specifications

Printer Type				Laser
Print Method				Electrophotographic Laser Printer
Memory Capacity Standard			•	128 MB
LCD (Liquid Crystal D	Display)		•	16 characters x 1 line
Power Source			•	220 to 240 V AC 50/60 Hz
Power Consumption	Peak		•	Approximately 1104 W
(Average)	Printing ¹		•	Approximately 460 W at 25 °C
	Printing (Quiet Mode) ¹		•	Approximately 265 W at 25 °C
	Ready ¹		•	Approximately 48 W at 25 °C
	Sleep ¹		•	Approximately 6.0 W
	Deep Sleep ¹		•	Approximately 0.6 W
	Power Off ^{2 3}		•	Approximately 0.03 W
Dimensions			Ur	nit: mm
(Typical outline view)			•	*: 356
**	***			**: 183 ***: 360
Weights (with supplie	es)		•	7.3 kg
Noise Level	Sound Pressure	Printing	•	LpAm = 48 dB (A)
	Printing (Quiet Mode)			LpAm = 44 dB (A)
	Ready			LpAm = 30 dB (A)
Sound Power Printing ⁴			•	LWAd = 7.103 B (A)
	Printing (Quiet Mode)			LWAd = 6.743 B (A)
		Ready ⁴	•	LWAd = 4.55 B (A)
Temperature	Operating		•	From 10°C to 32.5°C

¹ Measured when the machine is connected to the USB interface.

Measured according to IEC 62301 Edition 2.0.

³ Power consumption varies slightly depending on the usage environment.

⁴ Measured in accordance with the method described in RAL-UZ205.

Temperature	Storage	•	From 0°C to 40°C
Humidity	Operating	•	20 to 80% (without condensation)
	Storage	•	35 to 85% (without condensation)

Print Media Specifications

Paper Input	Paper Tray (Standard)	Paper Type	Plain Paper, Thin Paper, Recycled Paper, Thick Paper
		Paper Size	A4, Letter, A5, A5 (Long Edge), A6, Executive
		Paper Weight	• 60 to 163 g/m ²
		Maximum Paper Capacity	Up to 250 sheets of 80 g/m² Plain Paper
	Manual Feed Slot	Paper Type	Plain Paper, Thin Paper, Thick Paper, Thicker Paper, Recycled Paper, Bond, Label, Envelope, Env. Thin, Env.Thick
		Paper Size	 Width: 76.2 to 216 mm Length: 127 to 355.6 mm Envelope:
			COM-10, DL, C5, Monarch
		Paper Weight	• 60 to 230 g/m ²
		Maximum Paper Capacity	One sheet at a time
Paper Output ¹	Face Down Output Tray		Up to 150 sheets of 80 g/m² Plain Paper (face down delivery to the face down output paper tray) ²
	Face Up Output Tray		One sheet (face up delivery to the face up output tray)
2-sided	Automatic 2-sided	Paper Type	Plain Paper, Thin Paper, Recycled Paper
	Printing	Paper Size	• A4
		Paper Weight	• 60 to 105 g/m ²

¹ For labels, we recommend removing the printed sheets from the output paper tray immediately after they exit the machine to avoid the possibility of smudging.

Printer Specifications

Automatic 2-sided Print		•	Yes		
Resolution		•	600 x 600 dpi, HQ1200 (2400 x 600 dpi) quality, 1200 x 1200 dpi		
Print Speed ^{5 6} 1-sided print		•	Up to 30 pages/minute (A4 or Letter size)		
	2-sided Print		Up to 15 sides/minute (Up to 7.5 sheets/minute) (Letter or A4 siz		
First Print Time ⁷		•	Less than 8.5 seconds at 23 °C / 230 V		

² Calculated with 80 g/m² in a temperate, non humid environment.

 $^{^{\, 5}}$ $\,$ The print speed may change depending on the type of document you print.

⁶ Print speed may be slower when the machine is connected by wireless LAN.

From Ready mode and standard tray

Interface Specifications

USB ^{1 2}	Hi-Speed USB 2.0
	Use a USB 2.0 interface cable that is no more than 2 metres long.
LAN	10Base-T/100Base-TX ³
Wireless LAN	IEEE 802.11b/g/n (Infrastructure Mode)
	IEEE 802.11g/n (Wi-Fi Direct®)

- 1 Your machine has a USB 2.0 Hi-Speed interface. The machine can also be connected to a computer that has a USB 1.1 interface.
- ² Third party USB ports are not supported.
- 3 Use a straight-through Category 5 (or greater) twisted-pair cable.

Supported Protocols and Security Features

Ethernet

10Base-T/100Base-TX

Wireless LAN

IEEE 802.11b/g/n (Infrastructure Mode), IEEE 802.11g/n (Wi-Fi Direct®)

Protocols (IPv4)

ARP, RARP, BOOTP, DHCP, APIPA(Auto IP), WINS/NetBIOS name resolution, DNS Resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, SMTP Client, IPP/IPPS, FTP Server, SNMPv1/v2c/v3, HTTP/HTTPS server, TFTP client and server, ICMP, Web Services (Print)

Protocols (IPv6)

NDP, RA, DNS resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, IPP/IPPS, SMTP Client, FTP Server, SNMPv1/v2c/v3, HTTP/HTTPS server, TFTP client and server, ICMPv6, Web Services (Print)

Network Security (Wired)

SMTP-AUTH, SNMP v3, SSL/TLS (SMTP, HTTP, IPP)

Network Security (Wireless)

SMTP-AUTH, SNMP v3, SSL/TLS (SMTP, HTTP, IPP)

Wireless Network Security

WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)(Wi-Fi Direct® supports WPA2-PSK (AES) only)

Wireless Certification

Wi-Fi Certification Mark License (WPA[™]/WPA2[™] - Personal), Wi-Fi Protected Setup (WPS) Identifier Mark License, Wi-Fi CERTIFIED[™] Wi-Fi Direct[®]

Computer Requirements Specifications

Supported Operating Systems And Software Functions

Computer Platform & Operating System Version		PC Interface				Processor	Hard Disk
		Parallel (IEEE1284)	4000405	Wireless 802.11b/g/ n	,	Space to Install	
Windows® Windows® 7 SP		N/A	Printing	1		32 bit (x86) or 64 bit	80 MB
System	Windows® 10 Home / 10 Pro / 10					(x64) processor	

	Education / 10 Enterprise				
	Windows Server® 2008	Printing			
	Windows Server® 2008 R2			4 bit (x64) rocessor	
	Windows Server® 2012				
	Windows Server® 2012 R2				
	Windows Server® 2016				
Mac Operating System	macOS v10.11.x	Printing	Ir	Intel [®] Processor	80 MB
	macOS v10.12.x		P		
	macOS v10.13.x				

¹ Third party USB ports are not supported.

For the latest driver updates, go to the website at www.ricoh.com/support/.

All trademarks, brand and product names are the property of their respective companies.



Related Information

• Appendix

▲ Home > Appendix > How to Enter Text on Your Machine

How to Enter Text on Your Machine

When text is required, enter characters on the machine. The characters that are available may differ depending on the operation you perform.

- Hold down or repeatedly press ▲ or ▼ to select a character from this list:
 0123456789abcdefghijkImnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ(space)!"#\$%&'()*+,-./:;<=>?
 @[]^_
- Press **OK** when the character or symbol you want is displayed, and then enter the next character.
- Press Back to delete characters entered incorrectly.

Related Information

Appendix

Related Topics

- Configure Your Machine for a Wireless Network Using the Machine's Control Panel Setup Wizard
- · Configure Your Machine for a Wireless Network When the SSID Is Not Broadcast

▲ Home > Appendix > Supplies

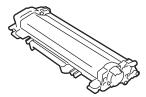
Supplies

When the time comes to replace supplies, such as the toner or drum, an error message will appear on your machine's control panel or in the Status Monitor.



The Supply Model Name will vary depending on your country and region.

Toner Cartridge



Standard Toner:					
Supply Model Name	Approximate Life (Page Yield)	Applicable Models			
Print Cartridge SP 230L	Approximately 1,200 pages ^{1 2}	SP 230DNw			

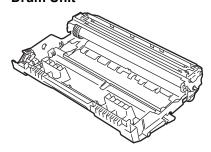
- 1 Approximate cartridge yield is declared in accordance with ISO/IEC 19752.
- ² A4/Letter single-sided pages

High Yield Toner:					
Supply Model Name	Approximate Life (Page Yield)	Applicable Models			
Print Cartridge SP 230H	Approximately 3,000 pages ^{1 2}	SP 230DNw			

- 1 Approximate cartridge yield is declared in accordance with ISO/IEC 19752.
- ² A4/Letter single-sided pages

The average inbox toner life is estimated at approximately 1,200 pages based on 1 page per job [A4 or Letter size single-sided pages].

Drum Unit



Supply Model Name	Approximate Life (Page Yield)	Applicable Models
Drum Unit SP 230	Approximately 12,000 pages ¹	SP 230DNw

Approximately 12,000 pages based on 1 page per job [A4/Letter single-sided pages]. The number of pages may be affected due to a variety of factors including but not limited to media type and media size.

1

Related Information

Appendix

Related Topics

Replace Supplies

▲ Home > Appendix > Information Regarding Recycled Paper

Information Regarding Recycled Paper

- Recycled paper is of the same quality as paper made from original forest sources. Standards governing
 modern recycled paper ensure that it meets the highest quality requirements for different printing processes.
 The imaging equipment supplied by the VA signatories is suitable for using with recycled paper meeting the
 EN 12281:2002 standard.
- Purchasing recycled paper saves natural resources and promotes the circular economy. Paper is made using
 cellulose fibres from wood. Collecting and recycling paper extends the life of fibres over multiple life cycles,
 making the best use of the resources.
- The recycled paper production process is shorter. The fibres have already been processed, so less water and energy, and fewer chemicals are used.
- Paper recycling has the benefit of saving carbon by diverting paper products from alternative disposal routes such as landfill and incineration. Landfill waste emits methane gas, which has a powerful greenhouse effect.



Related Information

Appendix

▲ Home > Appendix > Contacting Us

Contacting Us

IMPORTANT

For technical help, you must contact your local dealer or service representative.

Customer Service

Visit www.ricoh.com/support/ for contact information on your local office.



Related Information

• Appendix