

User's Manual



BEFORE USING THE MACHINE

Functions of the machine and procedures for placing originals and loading paper



OPERATION OF THE MACHINE

Operation of the touch screen and customisation of the user interface



PRINTER

Using the printer function



CONVENIENT USE OF THE MACHINE

Useful features of this machine



SETTING MODE

Configuring settings to make the machine easier to use



TROUBLESHOOTING

Questions and answers and care instructions



APPENDIX

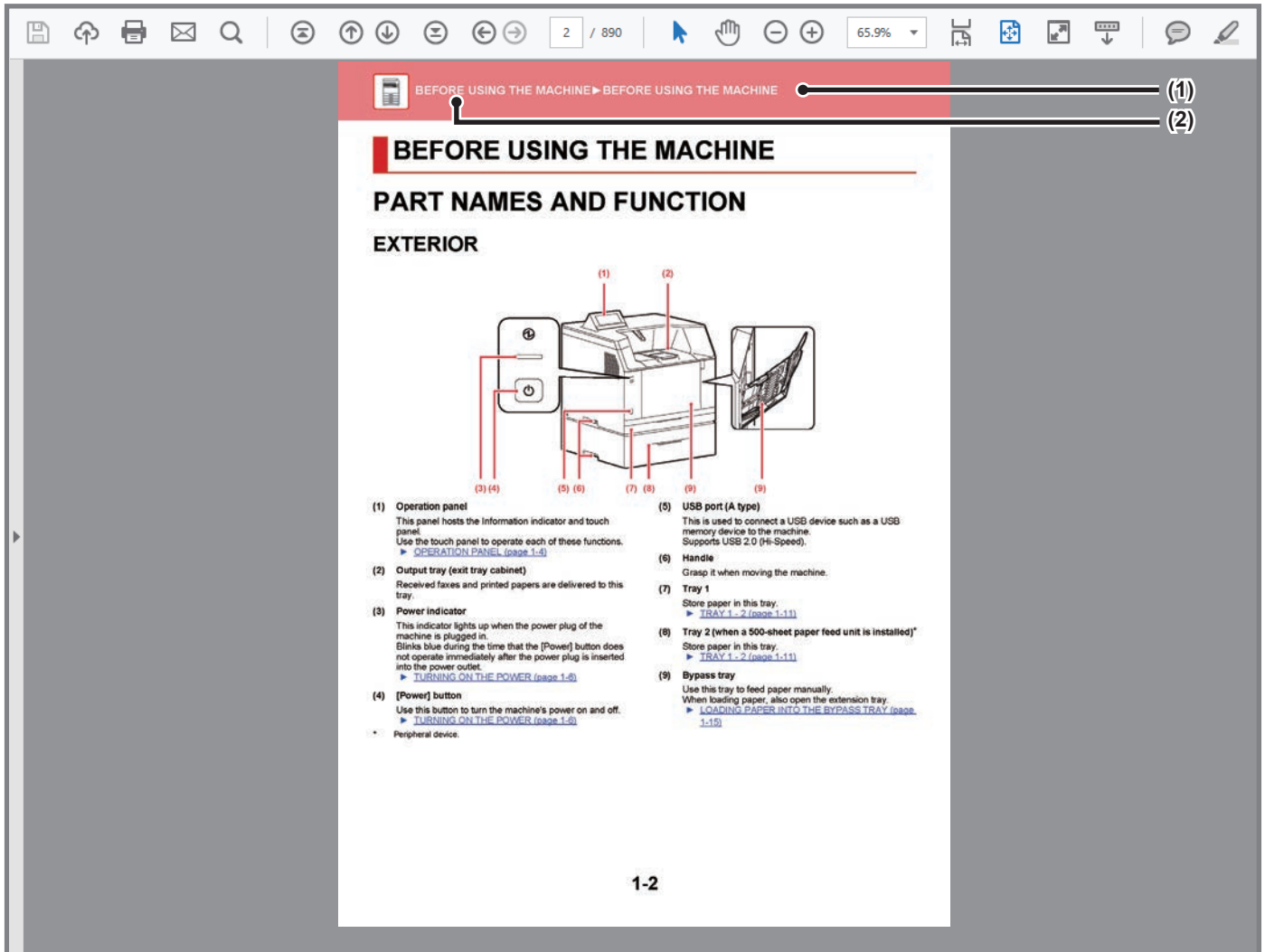
About the specifications

Click to go to
chapter index

HOW TO USE THIS MANUAL

Click a button below to move to the page that you wish to view.

The following explanation assumes that Adobe Reader is being used (Some buttons do not appear in the default state.).



(1) Title button

Displays the page of the title indicated by the button.

(2) Contents button

Displays the contents of each chapter.

For example, if the current page is part of the printer chapter, the table of contents of the printer chapter appears.



If a button does not appear, refer to Adobe Reader Help to display the button.

ABOUT OPERATION MANUAL

This manual explains how to use the BP-C131PW digital full color printer.

Please note

- For information on installing the drivers and software cited in this manual, please refer to the Software Setup Guide.
- For information on your operating system, please refer to your operating system manual or the online Help function.
- The explanations of screens and procedures in a Windows environment are primarily for Windows® 10. The screens may be different depending on the version of the operating system or the software application.
- The explanations of screens and procedures for use in a macOS environment generally assume that macOS 14 is being used and a PPD driver is installed. The screens may be different depending on the version of the operating system or the software application.
- Wherever "BP-xxxx" appears in this manual, please substitute your model name for "xxxx".
- Considerable care has been taken in preparing this manual. If you have any comments or concerns about the manual, please contact your dealer or nearest SHARP Service Department.
- This product has undergone strict quality control and inspection procedures. In the unlikely event that a defect or other problem is discovered, please contact your dealer or nearest SHARP Service Department.
- Aside from instances provided for by law, SHARP is not responsible for failures occurring during the use of the product or its options, or failures due to incorrect operation of the product and its options, or other failures, or for any damage that occurs due to use of the product.

Warning

- Reproduction, adaptation or translation of the contents of the manual without prior written permission is prohibited, except as allowed under copyright laws.
- All information in this manual is subject to change without notice.

Illustrations and the operation panel and touch panel shown in this manual

The peripheral devices are generally optional, however, some models include certain peripheral devices as standard equipment. The explanations in this manual assume the BP-C131PW. For some functions and procedures, the explanations assume that devices other than the above are installed.






The built-in server (Web page) of the machine

You can access the machine's built-in server from a Web browser and change the machine's settings on the Web page that appears. When "Web page" is used in this manual, it means this built-in server.

The display screens, messages, and key names shown in the manual may differ from those on the actual machine due to product improvements and modifications.

Icons used in the manuals

The icons in the manuals indicate the following types of information:

	This alerts you to a situation that could result in death or serious personal injury. This alerts you to a situation that could result in personal injury or damage to properties.		This explains how to stop or correct an operation.
	This alerts you to a situation where there is a risk of machine damage or failure.		This describes a routine work relevant to setting mode.
	This supplements function or operation procedure.		



BEFORE USING THE MACHINE

BEFORE USING THE MACHINE

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MAINTENANCE

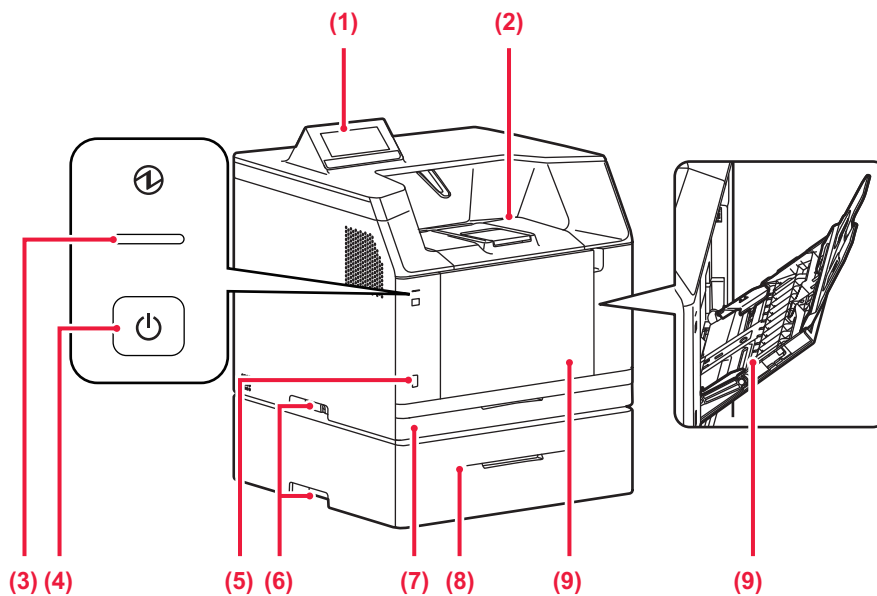
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BEFORE USING THE MACHINE

PART NAMES AND FUNCTION

EXTERIOR



(1) Operation panel

This panel hosts the Information indicator and touch panel.
Use the touch panel to operate each of these functions.
► [OPERATION PANEL \(page 1-4\)](#)

(2) Output tray (exit tray cabinet)

Printed papers are delivered to this tray.
Pull out the output extension tray when printing on paper larger than 8-1/2" x 11" (A4) size or when printing in large amounts.

(3) Power indicator

This indicator lights up when the power plug of the machine is plugged in.
Blinks blue during the time that the [Power] button does not operate immediately after the power plug is inserted into the power outlet.
► [TURNING ON THE POWER \(page 1-6\)](#)

(4) [Power] button

Use this button to turn the machine's power on and off.
► [TURNING ON THE POWER \(page 1-6\)](#)

* Peripheral device.

(5) USB port (A type)

This is used to connect a USB device such as a USB memory device to the machine.
Supports USB 2.0 (Hi-Speed).

(6) Handle

Grasp it when moving the machine.

(7) Tray 1

Store paper in this tray.
► [TRAY 1 - 2 \(page 1-11\)](#)

(8) Tray 2 (when a 500-sheet paper feed unit is installed)*

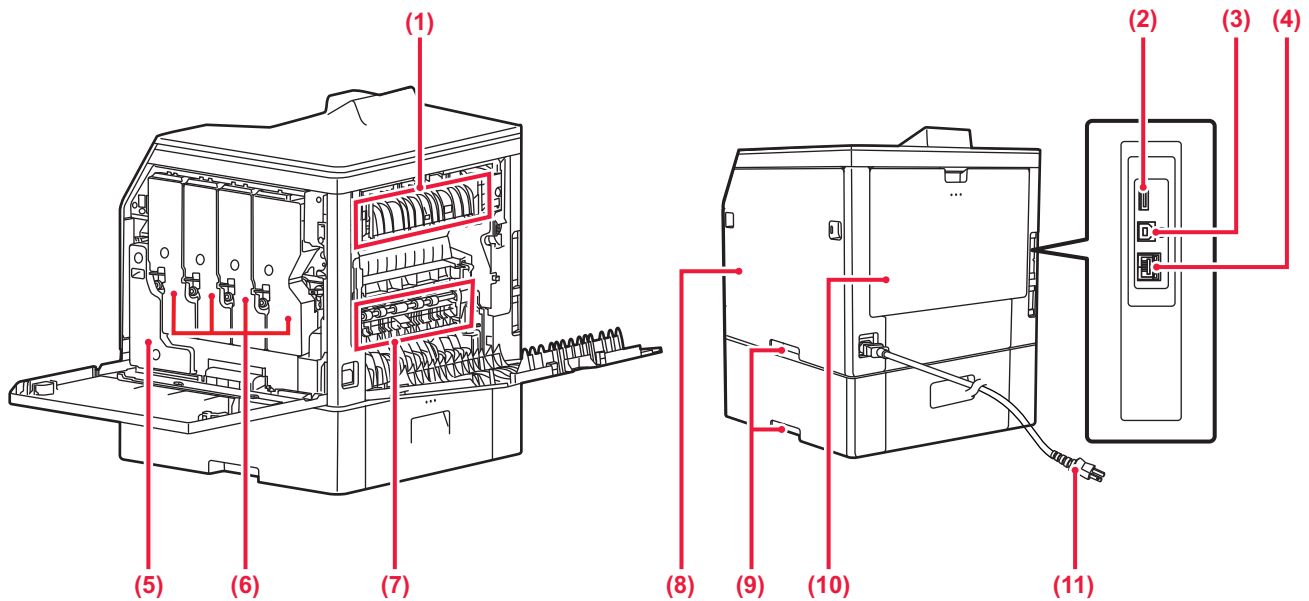
Store paper in this tray.
► [TRAY 1 - 2 \(page 1-11\)](#)

(9) Bypass tray

Use this tray to feed paper manually.
When loading paper, also open the extension tray.
► [LOADING PAPER INTO THE BYPASS TRAY \(page 1-15\)](#)




INTERIOR, SIDE AND BACK



(1) Fusing unit

Heat is applied here to fuse the transferred image onto the paper.

 **The fusing unit is hot. Take care not to burn yourself when removing a misfeed.**

(2) USB port (A type)

This is used to connect a USB device such as a USB memory device to the machine. Supports USB 2.0 (Hi-Speed).

(3) USB port (B type)

The machine does not use this connector.


(4) LAN connector

Connect the LAN cable to this connector when the machine is used on a network. Use a shielded LAN cable.

(5) Toner collection container

This container collects excess toner that remains after printing

► [REPLACING THE TONER COLLECTION CONTAINER \(page 1-28\)](#)

 A service technician collects replaced Toner collection container.


(6) Toner cartridge

This cartridge contains toner. When the toner in a cartridge runs out, replace with new one.

► [REPLACEMENT OF TONER CARTRIDGE \(page 1-25\)](#)

(7) Transfer belt

During full color printing, the toner images of the four colors on the photoconductive drums are combined together on the transfer belt. During black and white printing, only the black toner image is transferred onto the transfer belt.

 Do not touch or damage the transfer belt. This may cause a defective image.

(8) Right side cover

Open this cover to replace a toner cartridge.

► [REPLACEMENT OF TONER CARTRIDGE \(page 1-25\)](#)

(9) Handle

Grasp it when moving the machine.

(10) Rear side cover

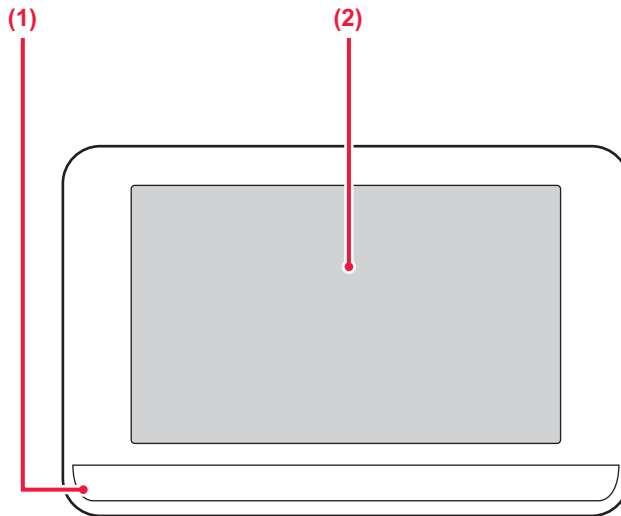
Open this cover to remove a paper misfeed. And open when user changing the setting to print envelope.

(11) Power plug



OPERATION PANEL

This section describes the names and functions of the respective parts of the operation panel.



(1) Information indicator

This indicator illuminates and flashes during execution of a job or when paper misfeeds occur.

► [INFORMATION INDICATOR \(page 1-5\)](#)

(2) Touch panel

Messages and keys appear on the touch panel display. Operate the machine by directly tapping the displayed keys.

► [TOUCH PANEL \(page 2-2\)](#)



- Use your finger to operate the touch panel.
- Do not touch the touch panel while the unit is starting up. If you touch the touch panel, it may not operate normally.
Example:
Press the [Power] button, and wait until the home screen is displayed. Returning from auto power shut-off.



INFORMATION INDICATOR

When turning the machine power ON/OFF; at user authentication when the user has logged in using IC card when connecting USB memory to the machine; when starting a job on the machine control panel; or during image adjustment or when adding toner, the LED lights blue and orange in response to the request/operation from the user to communicate to the user the machine status.



This light is used to communicate with users in front of the machine, therefore this is not lit as a result of remote operations.

Lighting patterns

Lighting patterns differ depending on status.

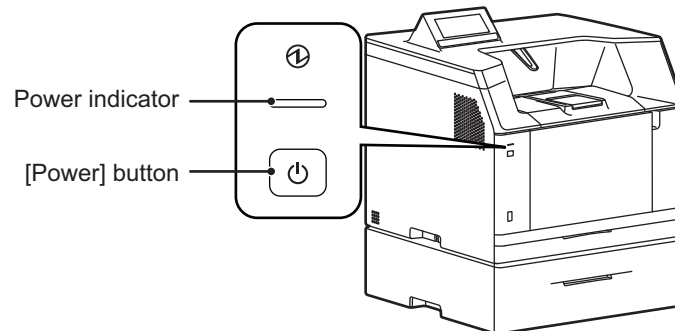
Lighting color	Lighting patterns	Status
Blue	Pattern 1	Job in progress, such as paper feeding or output.
	Pattern 2	Ready state or other state where jobs can be accepted.
Orange	Lights*	Errors that do not stop machine operation, such as almost out of toner.
	Blinks*	Errors that stop machine operation, such as misfeeds and out of toner.

* If the lighting state and the blinking state overlap, the blinking state takes priority.



TURNING ON THE POWER

This section describes how to turn on/off the machine's power and how to restart the machine. Operate the [Power] button on the operation panel.



- When turning off the power, be sure to press the [Power] button on the operation panel, tap the [Power Off] key on the touch panel. In a sudden case of power outage, turn the power for the machine back on and then turn it off in the correct order.
- Turn off the [Power] button and unplug the power cord if you suspect a machine failure, if there is a bad thunderstorm nearby, or when you move the machine.



- In order for some settings to take effect, the machine must be restarted. Depending on the condition of the machine, the settings may not be activated by rebooting with the [Power] button. In this case, unplug the power plug from the power outlet and plug it back in.
- Immediately after turning on the power or immediately after returning from sleep mode, printing and other operations are temporarily unavailable on the machine for a period of time to allow the machine to print properly. This is called warm-up.

TURNING ON THE POWER

- Insert the power plug in the power outlet.
- When the power indicator lights in blue, press the [Power] button to turn on the power.

TURNING OFF THE POWER

After pressing the [Power] button, tap the [Power Off] key on the touch.

RESTART THE MACHINE

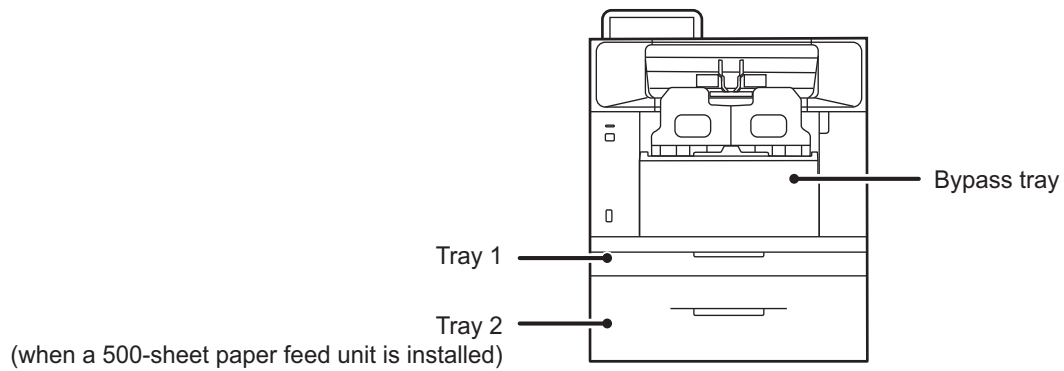
Press the [Power] button to turn off the power, and then tap the [Power Off] key on the touch panel. After that, press the [Power] button again to turn on the power.



LOADING PAPER

IMPORTANT POINTS ABOUT PAPER

NAMES AND LOCATIONS OF TRAYS





APPLICABLE PAPER TYPES

This section describes paper types that can be used and those that cannot be used. All types of paper other than plain paper are referred to as special media.



- Various types of paper are commercially available, some of which cannot be used on the machine. Before using any paper, consult the dealer or nearest SHARP Service Department.
- The image quality and toner fusibility of paper may change due to ambient conditions, operating conditions, and paper characteristics, resulting in image quality inferior to that of Sharp standard paper. Before using any paper, consult the dealer or nearest SHARP Service Department.
- The use of non-recommended or non-usable paper may result in skewed feeding, misfeeds, poor toner fusing (the toner does not adhere to the paper well and can be rubbed off), or machine failure.
- The use of non-recommended paper may result in misfeeds or poor image quality. Before using non-recommended paper, check whether printing can be performed properly.

Useable paper

Specifications of plain paper and heavy paper

Plain Paper*	Plain Paper 1	16 lbs. bond to 24 lbs. bond (60 g/m ² to 89 g/m ²)
	Plain Paper 2	24 lbs. bond to 28 lbs. bond (90 g/m ² to 105 g/m ²)
Heavy Paper	Heavy Paper 1	28 lbs. bond to 65 lbs. cover (106 g/m ² to 176 g/m ²)
	Heavy Paper 2	65 lbs. cover to 110 lbs. index (177 g/m ² to 200 g/m ²)

* If the paper that you normally use is Recycled, Pre-Punched, Pre-Printed, Letter Head or Color, set an appropriate paper weight in the Web page – [System Settings] → [Common Settings] → [Paper Settings] → [Paper Tray Settings] → [Paper Weight].



- The category of "Useable paper" is based on Sharp standard paper.
- If non-recommended paper is used, print quality may be affected even if a paper type setting that accords with the above paper divisions is selected. In that case, try setting the paper type to a type that is slightly heavier or slightly lighter than normal. For more information, consult the dealer or nearest SHARP Service Department.
- For paper specifications, see the specifications in the "Start Guide".
- Recycled paper, colored paper and pre-punched paper must meet the same specifications as plain paper. Before using any paper, consult the dealer or nearest SHARP Service Department.
- If the paper that was output is significantly curled, remove the paper from the cassette, turn the paper over so it is face down, and resume use.

Specifications of paper that can be used for two-sided printing

Paper Type	Plain, Recycled, Color, Letter Head, Pre-Printed, Punched, Heavy Paper 1 (28 lbs. bond to 65 lbs. cover (106 g/m ² to 176 g/m ²))
Paper Size	8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 5-1/2" x 8-1/2", A4, B5, A5, Custom (X direction: 210 mm to 356 mm (8-3/8" to 14"), Y direction: 140 mm to 216 mm (5-1/2" to 8-1/2"))

**Types of paper that can be set in each tray**

- For detailed information on the sizes and types of paper that can be loaded into each tray of the machine, see "SPECIFICATIONS" in the "Start Guide" and "[Paper Tray Settings \(page 5-38\)](#)".
- Recycled paper, colored paper and pre-punched paper must meet the same specifications as plain paper. Before using any paper, consult the dealer or nearest SHARP Service Department.

	Tray 1	Tray 2 ^{*1}	Bypass tray
Plain Paper 1 ^{*2}	Permitted	Permitted	Permitted
Plain Paper 2 ^{*2}	Permitted	Permitted	Permitted
Heavy Paper 1 ^{*3}	Permitted	Permitted	Permitted
Heavy Paper 2 ^{*3}	-	Permitted	Permitted
Pre-Printed	Permitted	Permitted	Permitted
Recycle Paper	Permitted	Permitted	Permitted
Letter Head	Permitted	Permitted	Permitted
Pre-Punched	Permitted	Permitted	Permitted
Color	Permitted	Permitted	Permitted
Labels	-	-	Permitted
Glossy Paper	-	-	Permitted
Envelope ^{*4}	Permitted	Permitted	Permitted

*1 when a 500-sheet paper feed unit is installed

*2 "Plain Paper 1" is plain paper 16 to 24 lbs. bond (60 to 89 g/m²), "Plain Paper 2" is plain paper 24 to 28 lbs. bond (90 to 105 g/m²).

*3 "Heavy Paper 1" is heavy paper up to 65 lbs. cover (176 g/m²), "Heavy Paper 2" is heavy paper up to 110 lbs. index (200g/m²).

*4 For envelopes that can be used, see "SPECIFICATIONS".

**Setting orientation of the print side**

The setting orientation varies for the print side of paper, depending on the tray used. For "Letter Head" and "Pre-Printed", set the paper in the reverse orientation.

Place with the print side facing the direction indicated below.

Tray	In normal status	With letter head or pre-printed paper set
Trays 1 - 2, Bypass	Facing up	Facing down



When [Disabling of Duplex] is set for "Letter Head" or "Pre-Printed", set the print side in the same orientation as for the ordinary operation.

Paper that cannot be used

- Tab paper
- Emboss
- OHP film
- Special media for an ink jet printer
(fine paper, glossy paper, glossy film, etc.)
- Carbon paper or thermal paper
- Pasted paper
- Paper with clips
- Paper with fold marks
- Torn paper
- Oil-feed transparency film
- Thin paper less than 16 lbs (60 g/m²)
- Heavy paper as thick as 110 lbs. index (201 g/m²) over
- Irregularly shaped paper
- Stapled paper
- Damp paper
- Curled paper
- Paper whose print side or reverse side has been already printed on by printer or multifunction device.
- Paper with a wave-like pattern due to moisture absorption
- Paper with creases
- Paper with dust

Non-recommended paper

- Iron-on transfer paper
- Perforated paper



TRAY 1 - 2

A maximum of 250 sheets of paper from size 5-1/2" x 8-1/2" to 8-1/2" x 14" (A6 to A4) can be loaded into tray 1.

A maximum of 500 sheets of paper from size 5-1/2" x 8-1/2" to 8-1/2" x 14" (A6 to A4) can be loaded into tray 2.



If you loaded paper of a different type or size from the paper previously loaded, be sure to check the settings in "Settings (administrator)". Incorrect setting affects automatic paper selection action. It may cause print failure, printing on paper of a wrong size or type or paper misfeeds.



Do not place heavy objects on the tray or press down on the tray.



To check the type and size of paper:

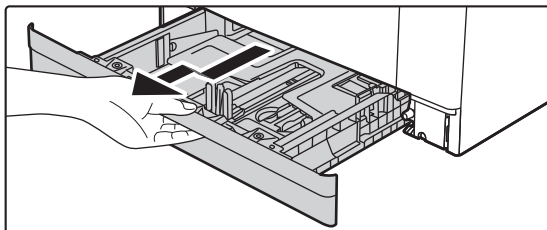
In the Web page, select [Status] → [Machine Identification] → [Paper Input Tray Status] → [Paper Tray Settings].

To set the type and size of paper:

[Tray Settings] in the home screen

1

Tray 1

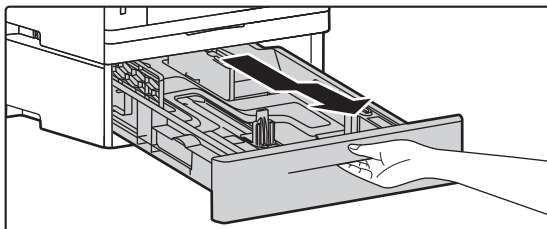


Removing the tray from the machine.

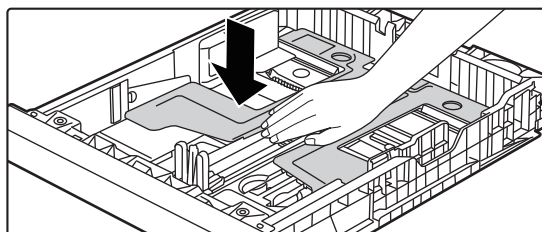
When the tray is pulled out, it stops in the middle and cannot be removed without removing it.

When the tray stops, gently lift it up and pull it out to remove it from the machine.

Tray 2

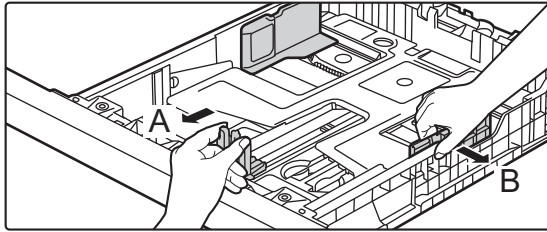


When using the tray, push the center of the pressure plate down until it locks into place.





2

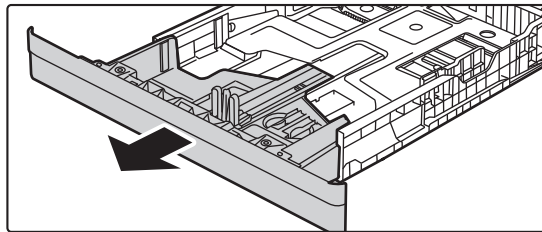
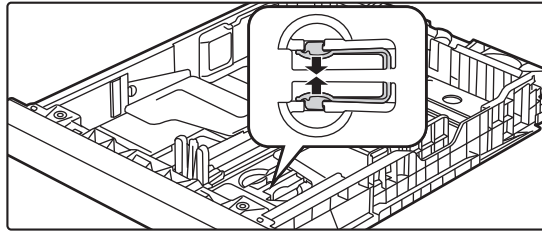


Move guide plates A and B in the tray to the maximum position.

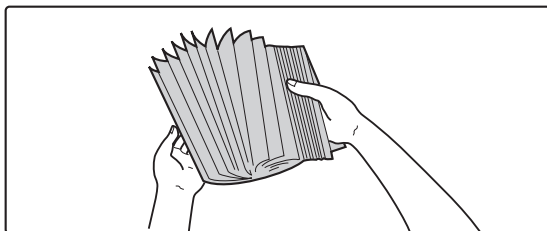
The guide plates A and B are slidable. Squeeze the separator plate lever.



To load 8-1/2" x 14" size paper in tray 1 or tray 2, release the knob and stretch the tray to the point where it locks. After the tray is extended, move plate A to the front of the tray.



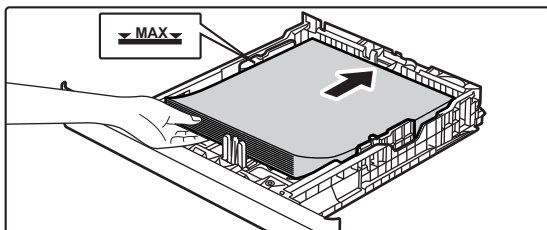
3



Fan the paper.

Fan the paper well before loading it. If the paper is not fanned, multiple sheets may feed at once and cause a misfeed.

4



Insert the paper into the tray.

Load the paper with the print side facing up. The stack must not be higher than the indicator line (Tray 1: maximum of 250 sheets, tray 2: maximum of 500 sheets).

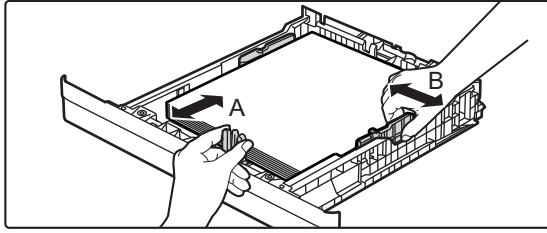
Do not load the paper as shown below.



- If a paper misfeed occurs, turn the paper over and/or around, and reload.
- If the paper is curled, fix the curl before loading the paper.
- Adjust the divider plate so that there is no gap between the paper and divider plate.
- Do not add paper.



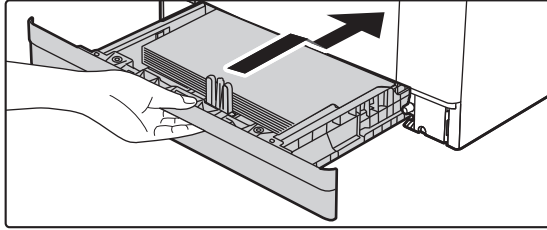
5



Adjust guide plates A and B with the paper.

Adjust to the paper size so that the paper will not be too loose or too tight.

6



Insert the tray into the machine.

Gently insert the tray into the machine, and when the tray stops in the middle, lower the entire tray down and insert it all the way to the back.

Forcefully inserting the tray may cause the paper to be skewed and misfeed.

Close the tray completely.

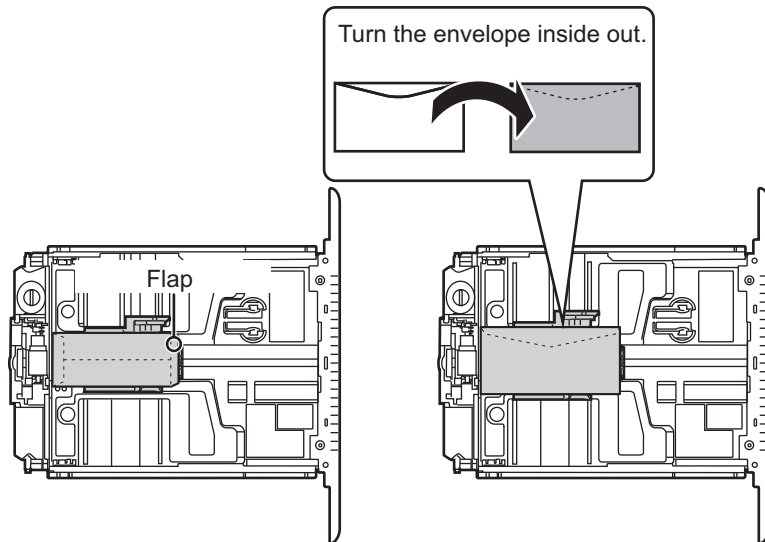


LOADING ENVELOPE IN TRAY

Load the paper with the print side facing up. The diagram shows an example of printing on the front side.

Envelopes may not exceed the maximum number of sheets (20) in tray 1 and the maximum number (50) in tray 2, and must not exceed the indicated line.

Envelopes with triangular flaps cannot be used in tray.



Cautions when placing envelopes

- Removing curling
- Ensure these are flat, containing no air
- Ensure the four folded edges are pressed flat (for items with flaps, three edges)
- Align on a flat surface



- Before printing envelopes in tray, print a trial print to check the results.
- If the envelope is not folded tightly, is warped or bent, it may cause misfeeds.



LOADING PAPER INTO THE BYPASS TRAY

Use the bypass tray for printing on plain paper, envelopes, label sheets, and other special media.

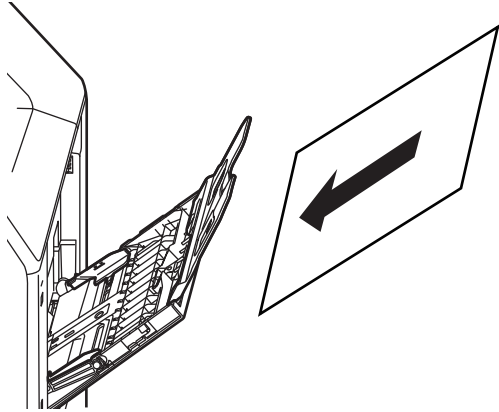
Up to 50 sheets of paper can be loaded (Heavy paper weighing between 28 lbs. bond and 110 lbs. Index (106 g/m² and 200 g/m²): 20 sheets, envelope : 10 sheets) for continuous printing, just like operation using other trays.



- When using plain paper other than Sharp standard paper or special media other than SHARP-recommended transparency film, glossy paper, or when printing on the reverse side of paper that has been printed on one side, load paper one sheet at a time. Loading more than one sheet at a time will cause misfeeds.
- Before loading paper, straighten any curling in the paper.
- To add paper, press down the pressure plate until it locks, remove any paper remaining in the bypass tray, combine it with the paper to be added, and place in the bypass tray again. If paper is added without removing the remaining paper, a paper jam may result. A paper jam may also result if more than the specified number of sheets are added, or if the paper stack exceeds the limit.
- After loading paper in the bypass tray, always check the paper type and size.

HOW TO LOAD THE PAPER

Load paper in landscape orientation. For information on how to load paper, see "[Loading paper \(page 1-18\)](#)".

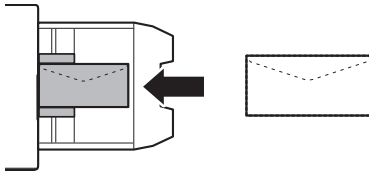




LOADING ENVELOPES

When inserting envelopes in the bypass tray, place them aligned to the left side in the orientation shown below. Only the front side of envelopes can be printed or copied on. Place the front side facing up. Fold the flap and make a sharp crease at the fold.

When printing the front side



Place the front side facing up.

When placing DL

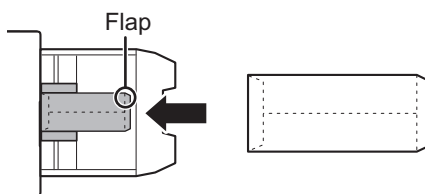
- Open the flap of the envelope.
- Place so that the flap is on the right.



When placing C5 or C6

- Close the flap of the envelope.
- Place so that the flap is on the back side.

When printing the front side



Place the front side facing up.

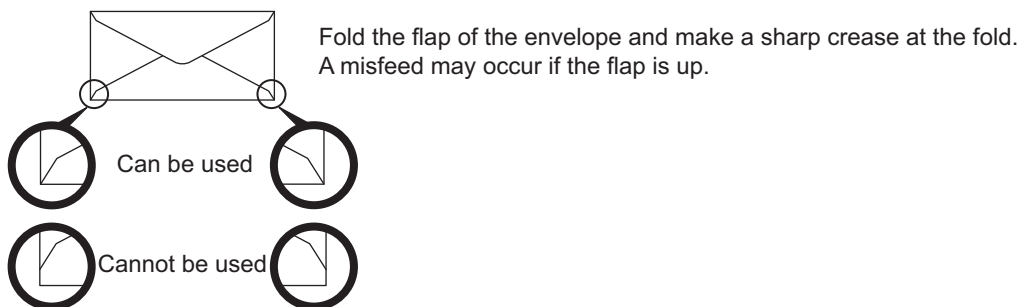


Before printing envelopes in bypass tray, print a trial print to check the results

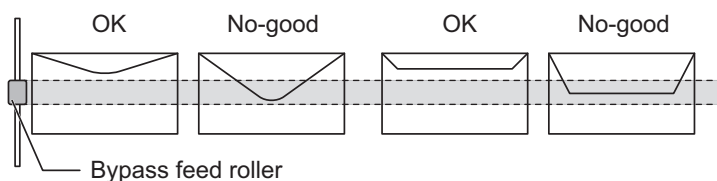


Important points when using envelopes

- Do not print the rear surface (the side with adhesive) of the envelope. This may result in misfeeds or poor print quality.
- Restrictions apply to some types of envelopes. For more information, consult a qualified service technician.
- Some operating environments may cause creasing, smudging, misfeeds, poor toner fusing, or machine failure.
- When placing multiple envelopes, they may not be fed if the print surface not being flat, instead being fed on an angle.
- Feeding of thick envelopes may not be possible.
- Envelopes with low surface smoothness may not be able to be fed.
- Do not use the following envelopes:
 - Those with a string for closing
 - Those with a metal piece, a plastic hook or a ribbon hook
 - Those with a lining
 - Those with an uneven surface, finished with titling or emboss
 - Lined envelopes and other items that use adhesives or other composites for sealing may have this substance melt because of heat from the fusing unit.
 - Hand-made envelopes
 - Those containing air inside
 - Those with wrinkles, bending marks, cuts, or other damage.
 - Envelopes whose surface has deteriorated or whose shape has been deformed due to long-term storage or moisture absorption cannot be used.
 - Those with four or more layers of lamination cannot be fed.
 - Those with a window



- Envelopes with the corner gluing position on the back not aligned with the corner edge cannot be used as it may cause creasing.
- Print quality is not guaranteed in the area 10 mm (13/32") around the edges of the envelope.
- Print quality is not guaranteed on parts of envelopes where there is a large step-like change of thickness, such as on four-layer parts or parts less than three layers.
- In the case of landscape envelopes, make sure that flaps are not in the range where the bypass feed roller moves on.



- Press envelopes to bleed air inside, and press creases on all 4 sides well before setting. In addition, when envelopes are warped or bent, straighten them using hard objects such as pencil or ruler before setting.
- Align on a flat surface
- Some envelopes may not be usable due to the shape of the flap or the type of envelope.

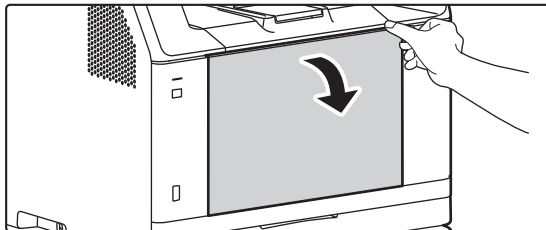


Important points when using label sheets

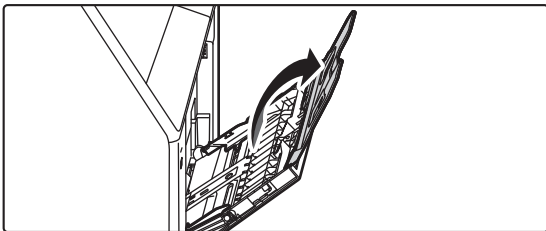
- Some labels may have to be loaded into the bypass tray in the specified orientation. Follow such instructions. If a form is already printed on the labels, and the print images and the preprinted form do not line up, adjust the application or printer driver settings to rotate the print images.
- Do not use the following types of label sheets.
 - Label sheets without adhesive-free area or partially attached sections
 - Label sheets with adhesive exposed
 - Label sheets with a specified feeding direction that is not supported by the machine
 - A label sheet that has already been fed or has some labels removed
 - Label sheets consisting of multiple sheets
 - Label sheets that do not support laser printing
 - Label sheets that cannot withstand heat
 - Label sheets that have perforations in the backing paper
 - Label sheets with slits in the backing paper
 - Non-standard label sheets
 - Label sheets with adhesive that has deteriorated due to prolonged storage or otherwise
 - Label sheets with cutouts that expose the backing paper
 - Curled or otherwise deformed label sheets
 - Torn or creased label sheets
 - Label sheets consisting of three sheets or more.

Loading paper

1

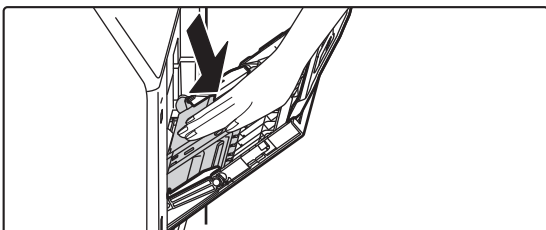


Open the bypass tray and the extension tray.



Do not place heavy objects on the bypass tray or press down on the tray.

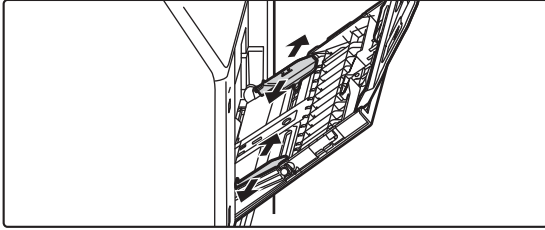
2



Push the center of the pressure plate down until it locks into place.



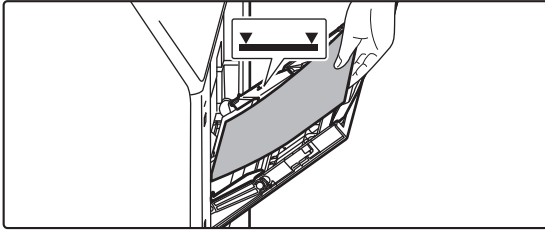
3



Set the bypass tray guides correctly to the width of the paper.

Adjust the bypass tray guides so that they slightly contact the loaded paper.

4



Load the paper with the print side facing down.

Insert the paper along the bypass tray guides all the way into the bypass tray until it stops slowly. Inserting the paper with excessive force may cause the leading edge to fold back. Inserting the paper too loosely may cause skewed feeding or misfeeds.

The paper must not exceed the maximum number of sheets and must not be higher than the indicator line.



- For "Letter Head" and "Pre-Printed", set the paper with the print side up. However, when [Disabling of Duplex] is enabled, set the print side in the same orientation as in the regular mode (facing down).
- To add paper, press down the pressure plate until it locks, remove any paper remaining in the bypass tray, combine it with the paper to be added, and place in the bypass tray again. If paper is added without removing the remaining paper, a paper jam may result. A paper jam may also result if more than the specified number of sheets are added, or if the paper stack exceeds the limit.



- Do not forcefully push in paper that you are loading. This may cause misfeeds.
- If the bypass tray guides are set wider than the paper, move the bypass tray guides in until they correctly fit the width of the paper. If the bypass guides are set too wide, the paper may skew or be creased.
- **How to close the bypass tray.**
Remove any paper remaining in the bypass tray, and press down the center of the pressure plate until it locks. After you have locked the pressure plate, close the extension tray and then close the bypass tray.



To display the paper tray settings when paper is detected in the bypass tray

Set in the Web page [System Settings] → [Common Settings] → [Paper Settings] → [Paper Feed Tray Settings] → [Display Paper Tray Settings when bypass tray detects paper.].



PERIPHERAL DEVICES

PERIPHERAL DEVICES

Peripheral devices can be installed on the machine to increase its range of functionality.

The peripheral devices are generally optional. However, some models include certain peripheral devices as standard equipment.

(As of July, 2024)

Product name	Product number	Description
500-sheet paper feed unit	BP-CS13	TRAY 1 - 2 (page 1-11)



MAINTENANCE

REGULAR MAINTENANCE

To ensure that the machine continues to provide top quality performance, periodically clean the machine.



Do not use a flammable spray to clean the machine. If gas from the spray comes in contact with hot electrical components or the fusing unit inside the machine, fire or electrical shock may result.



- Do not use thinner, benzene, or similar volatile cleaning agents to clean the machine. These may degrade or discolor the housing.
- Use a soft cloth to gently wipe off dirt from the area on the operation panel with a mirror-like finish (shown at right). If you use a stiff cloth or rub hard, the surface may be damaged.

CLEANING THE LASER UNIT

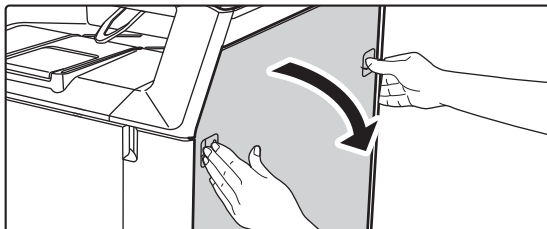
When the laser unit inside the machine becomes dirty, line patterns (colored lines) may form in the printed image.

Identifying lines (colored lines) caused by a dirty laser unit

- Colored lines always appear in the same place.
- Colored lines appear in parallel with the direction of paper feeding.
- Colored lines appear on the print from a computer.

If conditions similar to the above occur, clean the laser unit as explained below.

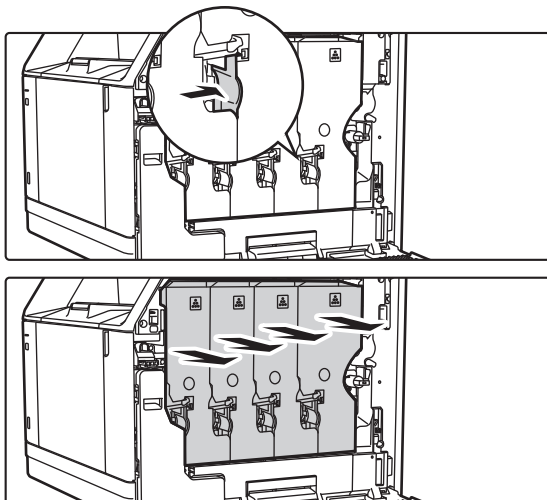
1



Open the right side cover.

Hold both sides and open.

2

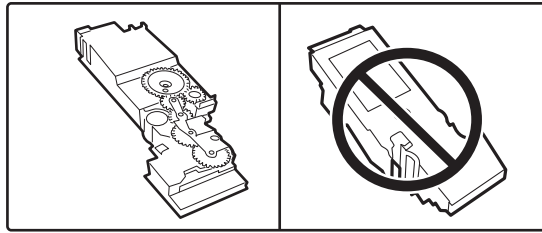


Remove all toner cartridges.

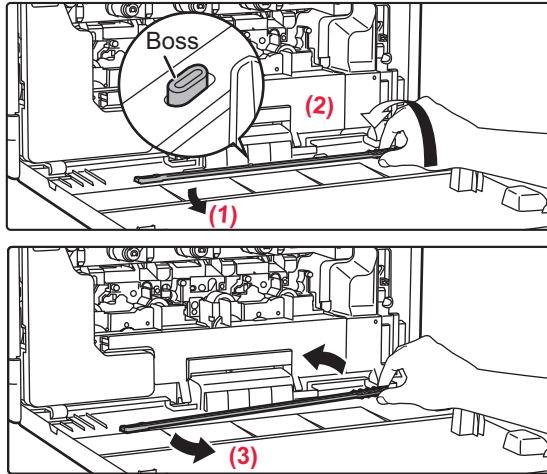
Spread newspaper or something similar in advance where you will place the toner cartridge. Press the lock at the bottom of the toner cartridge to unlock it and pull the toner cartridge toward you.



When the removed toner cartridge is placed, be sure to place it with the gear-mounted side facing up.



3

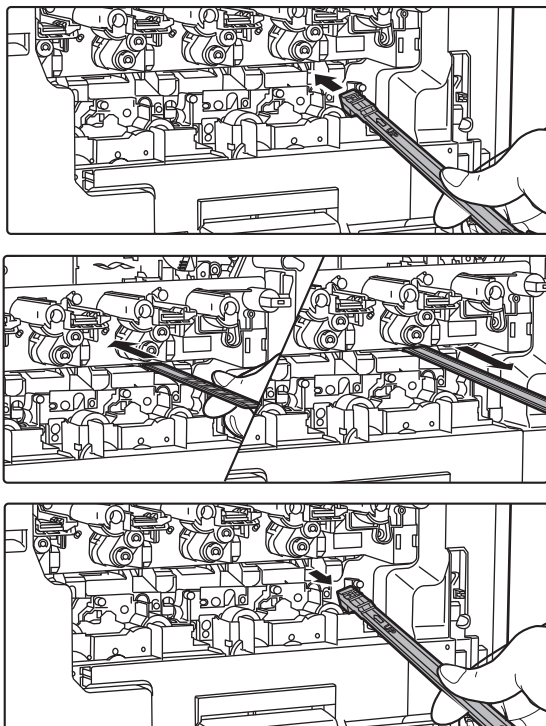


Take out the cleaning tool for the laser unit.

The cleaning tool is attached to the front cover.

- (1) Pull the knob on the right side of the cleaning tool to remove it from the hook.
- (2) Place the knob on the back side across the top of the hook.
- (3) Turn the cleaning tool around the boss to detach it from the left hand hook.

4

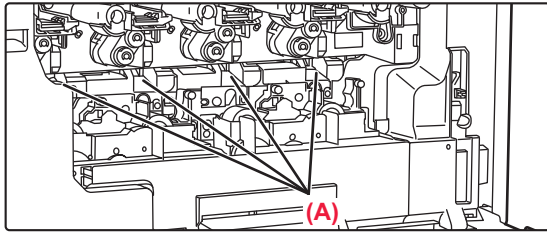


Clean the laser unit.

- (1) Point the cleaner down and slowly insert the tool into the hole that you wish to clean.
Be sure to point the cleaner down.
- (2) Insert the cleaning tool all the way into the hole and then pull it back out.
Pull the cleaning tool out until you feel the tip of the tool leave the cleaning surface of the laser unit.
- (3) Repeat step 2 two or three times and then remove the cleaning tool.



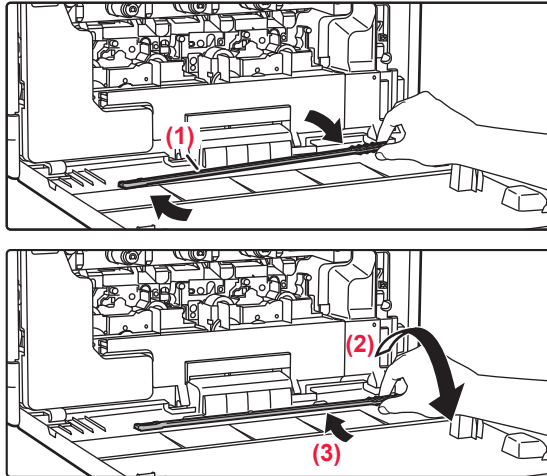
5



Repeat steps 4 to clean all holes (4 holes) in the laser unit.

The laser unit is cleaned in four locations, including the location cleaned in step 4. Clean all holes.

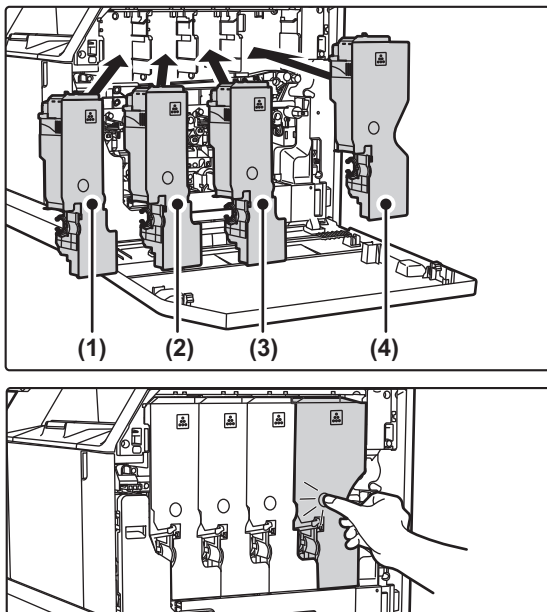
6



Replace the cleaning tool.

- (1) Engage the cleaning tool onto the boss and turn it around it, and then put the edge (the cleaner side) on the left hand hook.
- (2) Put the right hand side of the cleaning tool over the hook to place it on the near side.
- (3) Turn the cleaning onto hook.

7



Install all toner cartridges horizontally

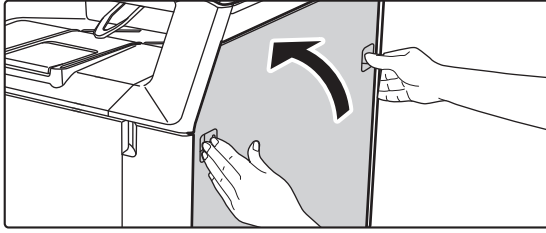
- (1) Yellow
 - (2) Magenta
 - (3) Cyan
 - (4) Black
- (1) Insert the toner cartridges into each color location.
 - (2) Press in firmly until you hear a "click" sound
Push in the rounded indentation on each toner cartridge.



A toner cartridge of a different color cannot be installed. Be sure to install a toner cartridge of the same color.



8

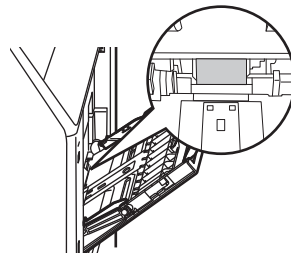


Close the right side cover.

Hold both sides and close.

CLEANING THE BYPASS FEED ROLLER

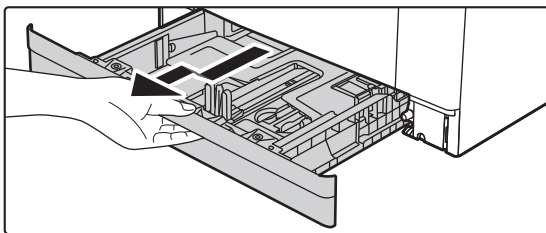
If paper misfeeds frequently occur when feeding envelopes or heavy paper through the bypass tray, wipe the surface of the feed roller with a clean soft cloth moistened with water or a neutral detergent.



CLEANING THE FEED ROLLER OF TRAY

If the paper in tray frequently misfeeds, press down the center of the pressure plate until it locks, and wipe the surface of the feed roller with a clean, soft cloth moistened with water.

1

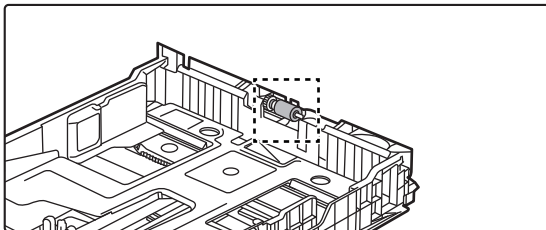


Removing the tray from the machine.

When the tray is pulled out, it stops in the middle and cannot be removed without removing it.

When the tray stops, gently lift it up and pull it out to remove it from the machine.

2



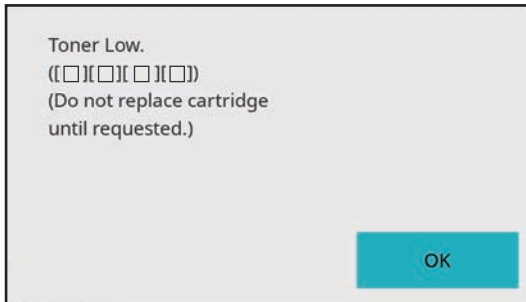
Clean the feed roller.



REPLACEMENT OF TONER CARTRIDGE

Always replace the toner cartridge after the "Change the toner cartridge." message appears. You should keep one set of replacement toner cartridges on hand so that you can replace a toner cartridge immediately when toner runs out.

REPLACEMENT MESSAGE



When this message appears, prepare a toner cartridge for replacement.

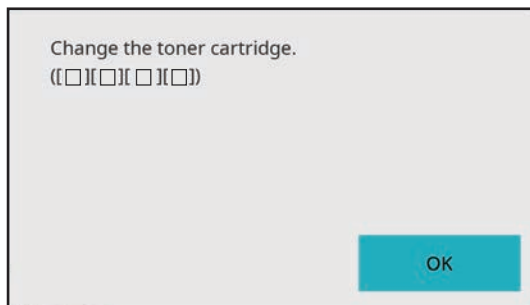
([][][][]) shows the color of the toner cartridge that should be prepared.

Y: Yellow toner, M: Magenta toner, C: Cyan toner, and Bk: Black toner

Replace the toner cartridge with a one of the relevant color.



If you continue to use the machine, the following message will appear when the toner runs out.



1

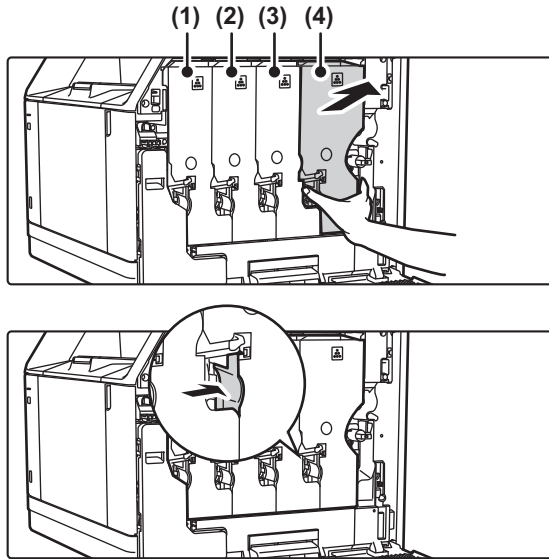


Open the right side cover.

Hold both sides and open.



2



Pull the toner cartridge toward you.

- (1) Yellow
- (2) Magenta
- (3) Cyan
- (4) Black

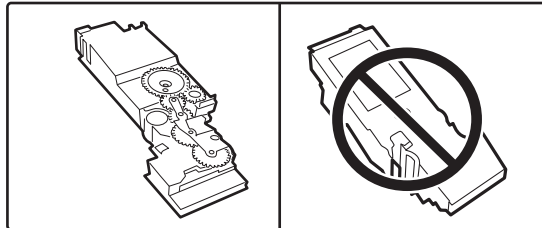
Spread newspaper or something similar in advance where you will place the toner cartridge.

(Example) Replacing the black toner cartridge

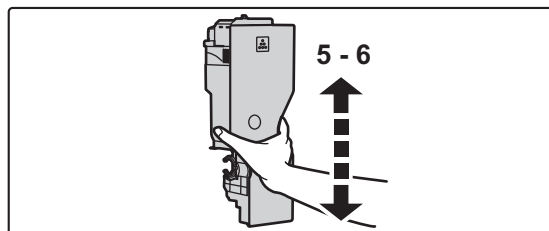
Press the lock at the bottom of the toner cartridge to unlock it and pull the toner cartridge toward you.



When the removed toner cartridge is placed, be sure to place it with the gear-mounted side facing up.

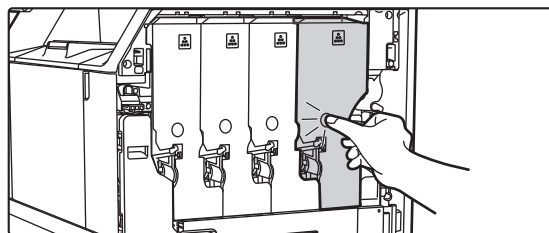


3



Take out a new toner cartridge from its package and shake it vertically five or six times.

4



Slowly insert the new toner cartridge on the level.

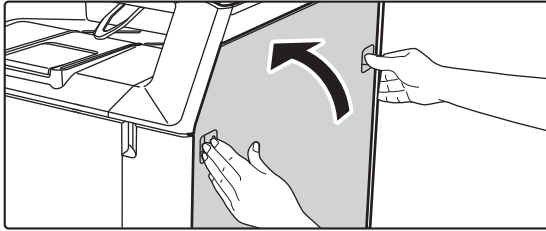
Push in the rounded indentation until it "clicks" into position.



A toner cartridge of a different color cannot be installed. Be sure to install a toner cartridge of the same color.



5



Close the right side cover.

- Hold both sides and close.
- After the toner cartridge is replaced, the machine automatically enters image adjustment mode. Do not open the front cover while this is occurring.



- Do not throw a toner cartridge into a fire. Toner may fly and cause burns.
- Store toner cartridges out of reach of small children.
- If a toner cartridge is stored sideways, the toner may harden and become unusable. Always store toner cartridges in the upright position.
- If a toner cartridge other than a SHARP-recommended toner cartridge is used, the machine may not attain full quality and performance and there is a risk of damage to the machine. Be sure to use a SHARP-recommended toner cartridge.



- If any one of the toner colors runs out, color printing will no longer be possible. If the Y, M, or C toners run out but a quantity of Bk toner still remains, printing is performed in black and white.
- Depending on your conditions of use, the color may become light or the image blurred.

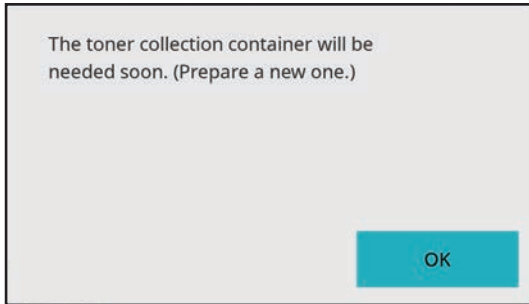


- Be sure to install four toner cartridges (Y/M/C/Bk).
- Do not throw away the removed toner cartridge, instead place it in the plastic bag provided and keep it in the box in which it was packed. Your service technician will collect them.
- To view the approximate amount of toner remaining (indicated in %), hold down the [Home Screen] key during printing or in standby mode. When the percentage falls to "25-0%", keep a toner cartridge for replacement purposes before toner runs out.
- When the toner cartridge included with the machine is installed, the remaining toner level will be displayed as "50-25%" from the beginning. (The toner cartridge that will be set at the time of installation has a lower print capacity than the normal toner cartridge.)
- When toner runs out while the home screen is displayed, the "Toner Empty" message appears in the screen. Additionally, if the toner quantity is displayed on the home screen, a "⚠" will be displayed above colors for which toner has run out.

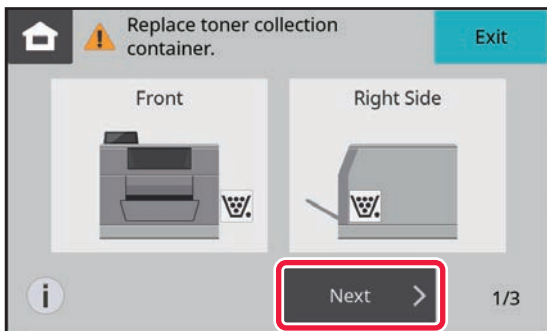


REPLACING THE TONER COLLECTION CONTAINER

The toner collection container collects excess toner that is produced during printing. When the toner collection container becomes nearly full, the following message will appear. Prepare the toner collection container.



When the toner collection container becomes full, the following message will appear.

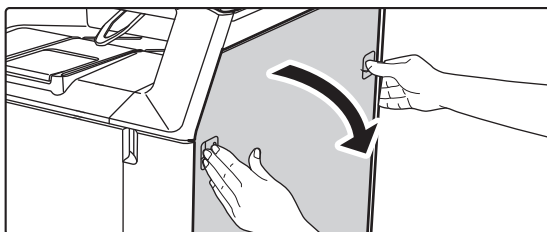


Replace the toner collection container as instructed by the message in the touch panel. When the [Next] key is tapped, instructions for replacing the toner collection container will appear. Follow the instructions. When the toner collection container is replaced, the message will automatically disappear.



- Do not throw the toner collection container into a fire. Toner may fly and cause burns.
- Store the toner collection container out of the reach of small children.

1

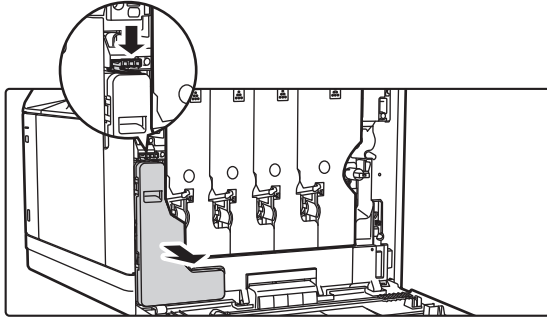


Open the right side cover.

Hold both sides and open.



2



Remove the toner collection container.

While gently pressing down on the hook at the top of the toner collection container, pull the toner collection container toward you.

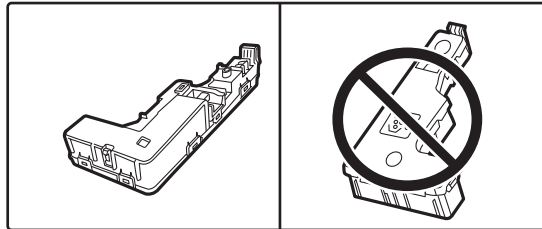
3

Place the toner collection container on a flat surface.

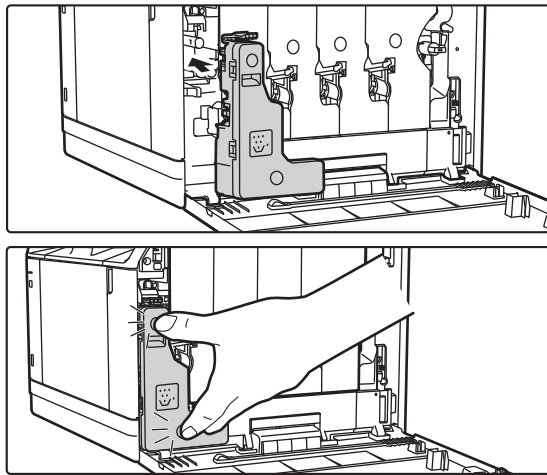
Place a sheet of paper such as newspaper on the surface before placing the toner collection container.



Do not point the holes down as used toner will spill out.



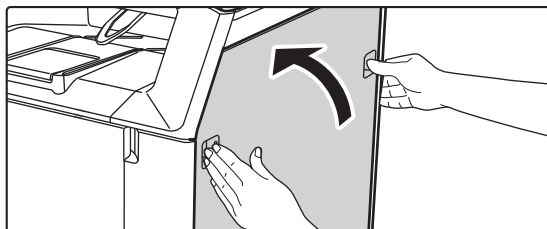
4



Install a new toner collection container.

Push in the rounded indentation until it “clicks” into position.

5



Close the right side cover.

Hold both sides and close.



- Do not throw away the removed toner collection container, instead place it in the plastic bag provided and keep it in the box in which it was packed. Your service technician will collect them.
- Keep the toner collection container in an upright position without collapsing it.



REPLACING THE IMAGING UNIT

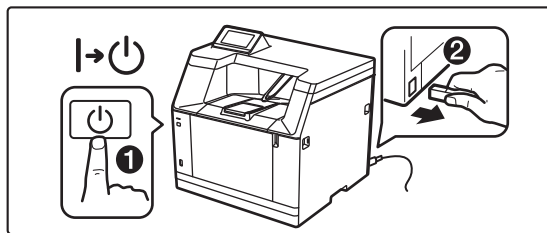


- Do not throw the imaging unit into a fire. Toner may fly and cause burns.
- Store the imaging unit out of the reach of small children.



- Do not expose the imaging unit to direct sunlight or other strong light.
- Do not touch or scratch the surface of the drum (green part) of the imaging unit.
- Do not place the imaging unit vertically.

1



Turn off the machine.

After turning off the machine, unplug it from the power outlet. For information on how to turn off the power of the machine, see "[TURNING ON THE POWER \(page 1-6\)](#)".

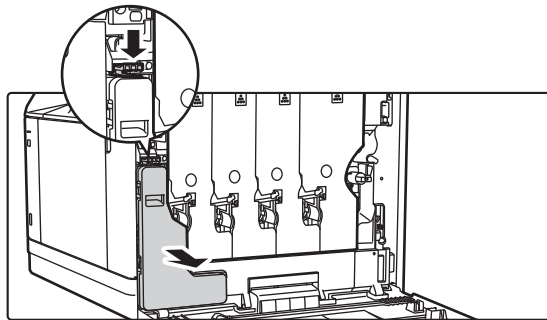
2



Open the right side cover.

Hold both sides and open.

3

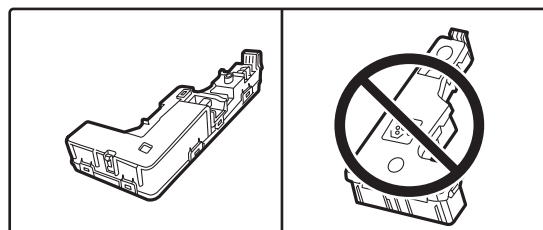


Remove the toner collection container.

While gently pressing down on the hook at the top of the toner collection container, pull the toner collection container toward you.

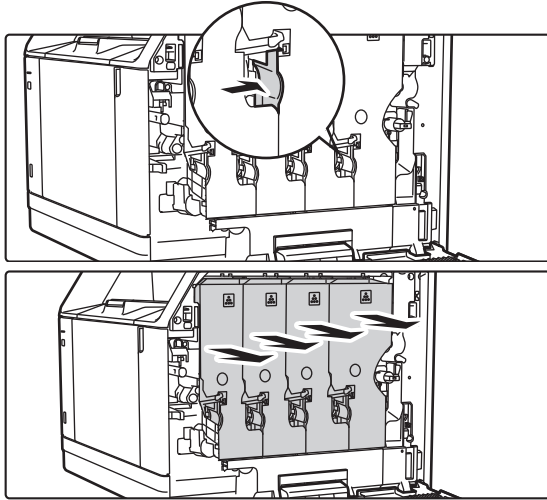


Place a sheet of paper such as newspaper on a flat surface before placing the toner collection container. Place the toner collection container on it. Do not point the holes down as used toner will spill out.





4

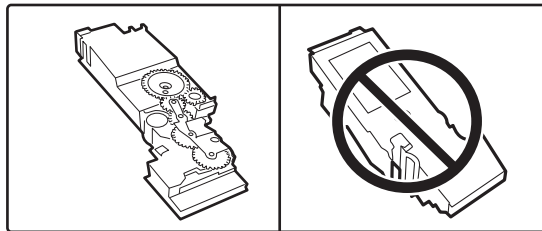


Remove all toner cartridges.

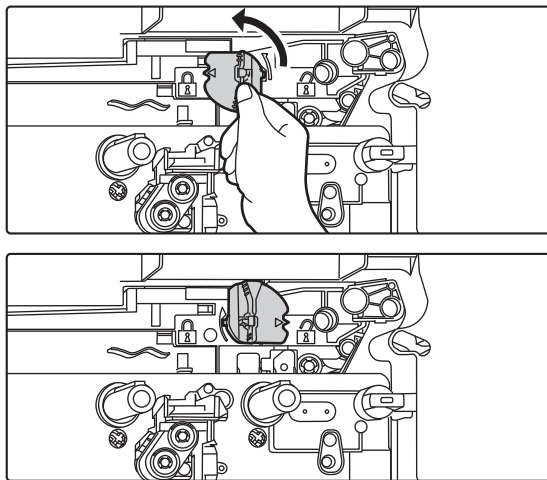
Spread newspaper or something similar in advance where you will place the toner cartridge.
Press the lock at the bottom of the toner cartridge to unlock it and pull the toner cartridge toward you.



When the removed toner cartridge is placed, be sure to place it with the gear-mounted side facing up.



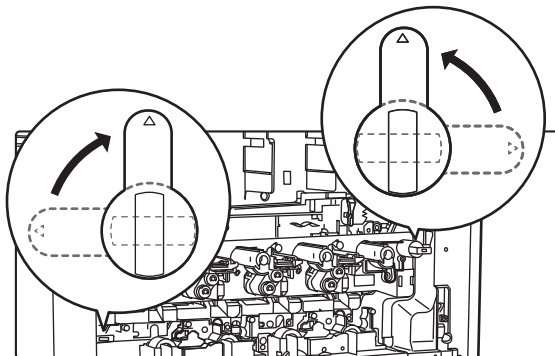
5



Unlock the primary transfer unit pressure transfer lever.

Turn the primary transfer unit pressure transfer lever 180 degrees to the left to set the ◁ mark to the unlocked (△) position.

6

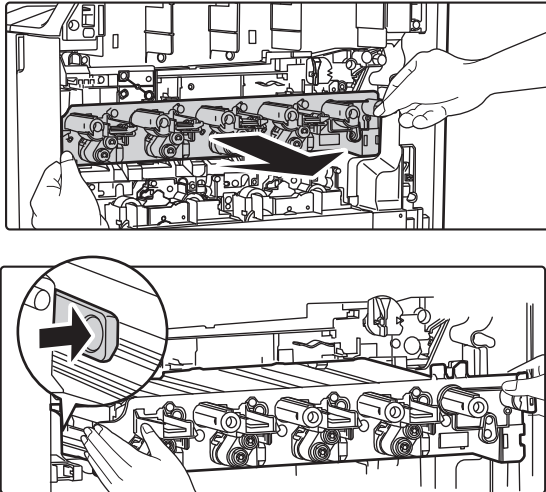


Unlock the imaging unit.

Turn the left lock of the imaging unit 90 degrees to the right.
Turn the right lock of the imaging unit 90 degrees to the left.



7



Remove the imaging unit.

At first, pinch the locks on the left and right sides of the imaging unit and pull it out slowly and horizontally. In the middle, release the lock while holding down the lock to prevent it from falling out, and pull it out by holding both sides firmly with both hands.



Imaging unit is heavy and handled with care.

8



Install the new imaging unit

(1) Insert the imaging unit, making sure that the mark on the imaging unit is aligned with the mark on the machine.

Insertion stops at the plastic cover.

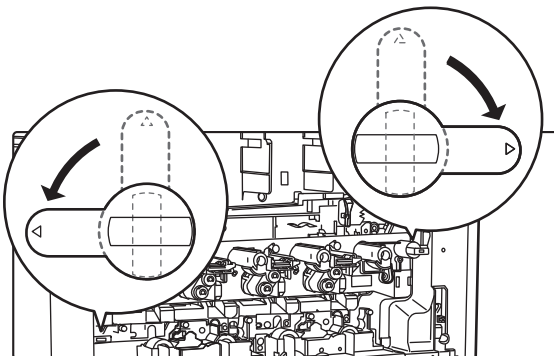
(2) Remove the plastic cover.

(3) Pinch and push in the locks on the left and right sides of the imaging unit



- The imaging unit can only be installed in the machine immediately after opening the package.
- When holding the imaging unit, be sure to hold the plastic cover part. Do not touch the green part.

9

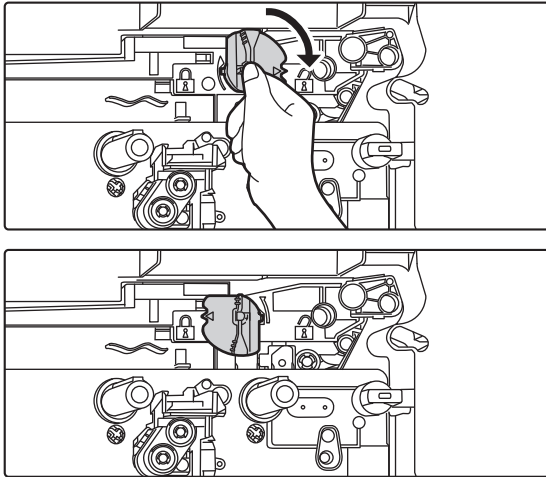


Lock the imaging unit.

Turn the left lock of the imaging unit 90 degrees to the left. Turn the right lock of the imaging unit 90 degrees to the right.



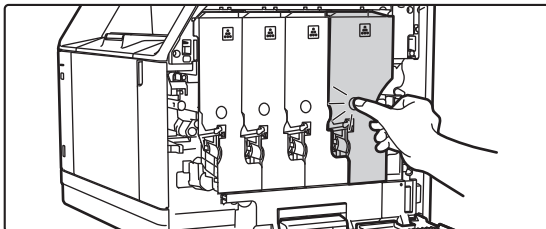
10



Lock the primary transfer unit pressure transfer lever.

Turn the primary transfer unit pressure transfer lever 180 degrees to the right to set the ◁ mark to the locked (🔒) position.

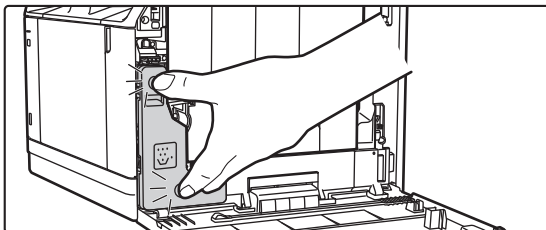
11



Slowly insert the toner cartridge on the level.

Push in the rounded indentation until it “clicks” into position.

12



Install a toner collection container.

Push in the rounded indentation until it “clicks” into position.

13



Close the right side cover.

Hold both sides and close.



After using up an imaging unit, pack it with the packing case, packing material and bag that are used for the original imaging unit. Your service technician will collect them during maintenance.



OPERATION OF THE MACHINE

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TOUCH PANEL

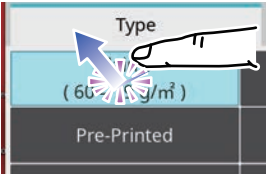
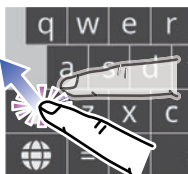
TOUCH TYPES

OPERATION TYPES

In addition to tapping, equivalent to conventional touching, the touch panel of the machine can be operated by long touching.



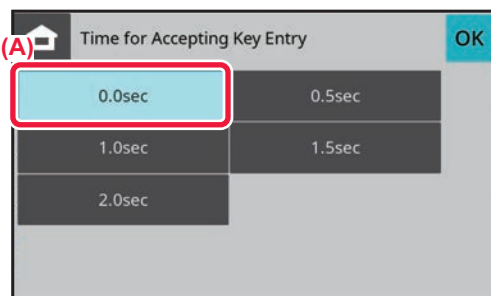
Multi-touch cannot be used on the touch panel of the machine.

	<p>Tapping Touch the panel with your finger and then lift it quickly. Use this method to select a key, tab or check box.</p>		<p>Long touching Touch the panel with your finger and hold it for a while. Press and hold (long touch) the [Shift] key on the keyboard to lock the [Shift] key and continue typing uppercase letters. (Tap the [Shift] key to unlock it in this state.)</p>
---	---	--	--

Operation on respective screens

Key (tapping)

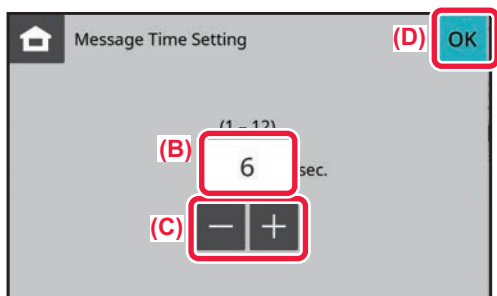
A. Tap to select an item. The selected key turns into a different color.



B. Tap numeric keys to enter numbers.

C. Tap to increase or decrease the value. Long touching causes the value to be increased or decreased until you stop touching.

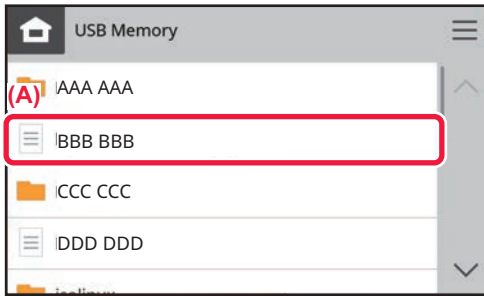
D. Tap here to close the screen





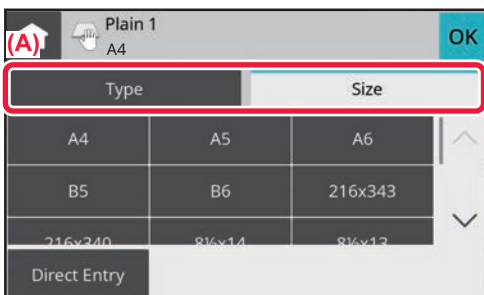
List (tapping, sliding and flicking)

A. Tap to select an item. The selected item turns into a different color.



Tab (tapping)

A. Tap a tab to switch what is displayed.



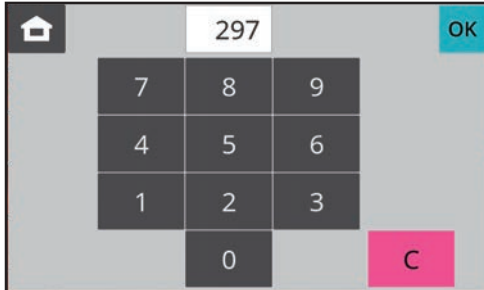


OPERATION OF FREQUENTLY USED KEYS

Numeric keys

Tap a number to enter it.

To clear the entered number, tap the [C] key

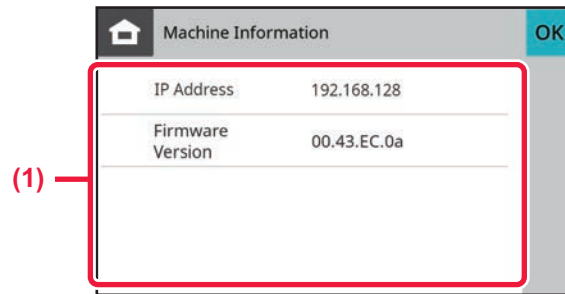


On the address screen, you can enter characters other than numbers, and a different key layout is provided. You can also move the cursor by using the [←] and [→] keys. Tap the [C] key to delete one character to the left of the cursor.



MACHINE INFORMATION SCREEN

Tap the machine information icon at the bottom of the touch panel to display the machine information screen.



(1) Machine Information

The status of the machine, such as network connection status and firmware version, will be displayed.

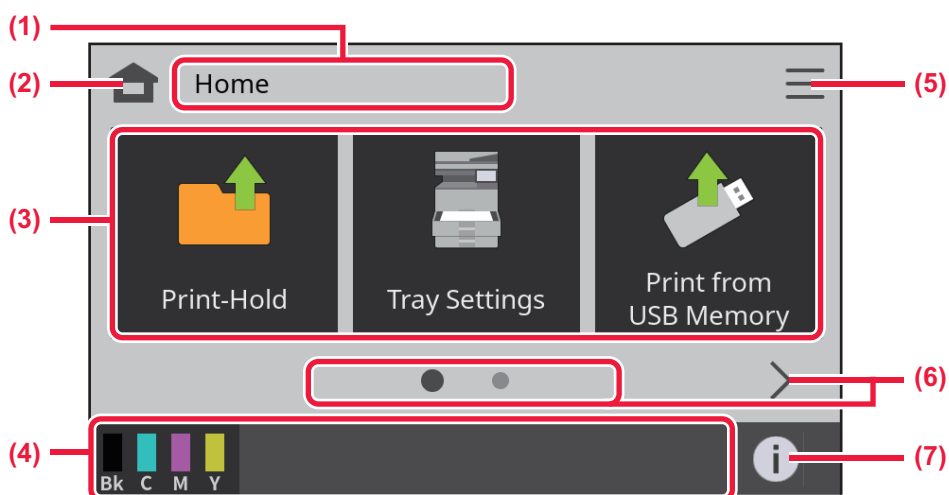


HOME SCREEN AND PREVIEW SCREEN

HOME SCREEN

Tapping the [Home Screen] key displays the home screen on the touch panel. The home screen displays the keys for selecting modes or functions.

OVERVIEW



- (1) **Mode title**
The mode title is displayed.
- (2) **[Home Screen] key**
Switch to the home screen.
- (3) **Shortcut keys**
Select shortcut keys for modes or functions.
► [EDITING THE HOME SCREEN \(page 2-9\)](#)
- (4) **Fixed display area**
Icons are displayed to inform you of the toner status and the status of the machine.
- (5) **"Menu" icon**
Displays detailed settings of the machine.
- (6) **Home screen page switching key**
Switch the pages for displaying shortcut keys.
- (7) **Machine Information icon**
Tap this icon to display the machine information screen.
► [MACHINE INFORMATION SCREEN \(page 2-5\)](#)

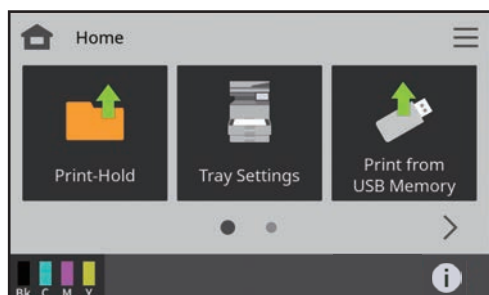
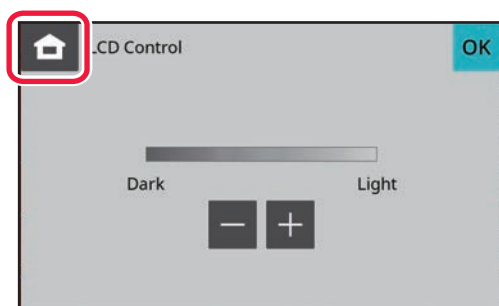


ICON INDICATING THE STATUS OF THE MACHINE

Icon	Machine status	Icon	Machine status
	Machine information icon MACHINE INFORMATION SCREEN (page 2-5)		Wireless LAN infrastructure mode connected (level 1)
	A maintenance notification is issued.		Wireless LAN infrastructure mode connected (level 2)
	When IC card is not connected.*		Wireless LAN infrastructure mode connected (level 3)
	Received data is held.		Wireless LAN infrastructure mode connected (level 4)
	A USB device is installed.		The field support system is enabled.
	A LAN cable is not connected.		When firmware update function is enabled
	Wireless LAN not connected		Firmware update information is on.
	Bad connection of the wireless LAN device in the machine*		Firmware update failed
	Wireless LAN enabled		Remote operation is in progress.

* Consult your service technician.

SWITCH TO HOME SCREEN





For procedures for editing the home screen, see "[EDITING THE HOME SCREEN \(page 2-9\)](#)".



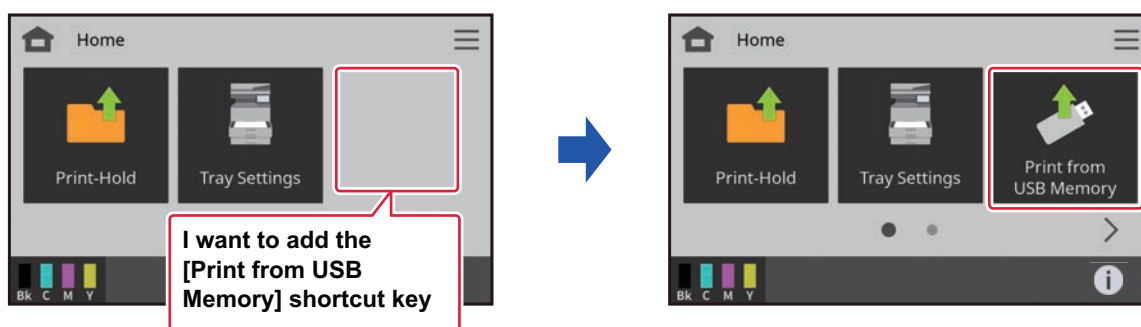
CHANGE THE DISPLAY OF THE TOUCH PANEL

EDITING THE HOME SCREEN

In the home screen, you can change the number of shortcut keys shown.

ADDING SHORTCUT KEYS

This section explains how to add a shortcut key to the home screen. You can add a shortcut key using the from the Web page.

**1**

Enter the IP address set in the machine in the address bar of your web browser.

In the factory default state, you must enter your user password after entering the IP address.

2

On the Web page, click the [System Settings] tab → [Home Screen Settings].

Some settings may require that you enter your user password after clicking [Home Screen Settings]. If you did not perform user authentication, you must enter the administrator password.

Status	User Control	System Settings
Home Screen Settings		
Condition Settings		
Update(R)		
No.	Home Button	
1	Print-Hold	
2	Paper Tray Settings	
3	Not Set	
4	User's Manual	
5	Easy Connect Setup (QR code)	
6	Not Set	
7	Not Set	



3

Click [Condition Settings] and click the shortcut key you want to add.

No.	Home Button
1	Print-Hold
2	Paper Tray Settings
3	Not Set
4	User's Manual
5	Easy Connect Setup (QR code)
6	Not Set
7	Not Set

4

Select the function you want to add.

Home ButtonNo.3:Not Set

Printer:

- None
- Print-Hold
- Print from USB Memory

Paper Tray Settings:

Easy Connect Setup: Easy Connect Setup (QR code)

Submit(U) Cancel(C)

5

When you have finished configuring the settings, click the [Submit] button.

The settings are saved in the machine and applied.

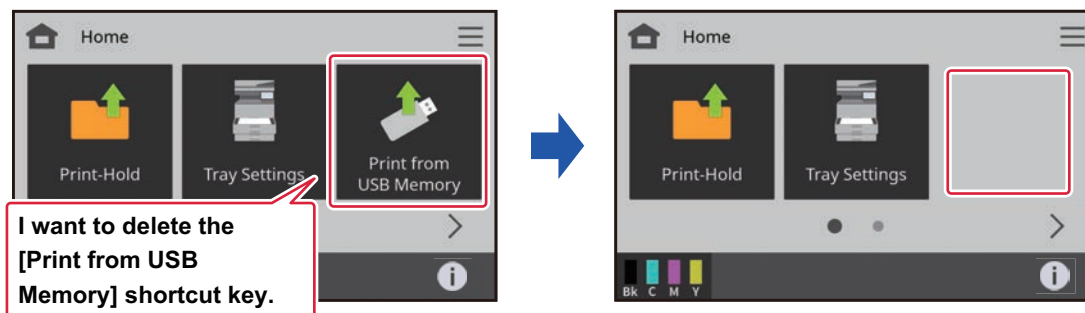
When you have finished settings, click the [Logout] button and close your Web browser.



DELETING SHORTCUT KEYS

You can delete unneeded shortcut keys.

You can add a shortcut key using the from the Web page.

**1**

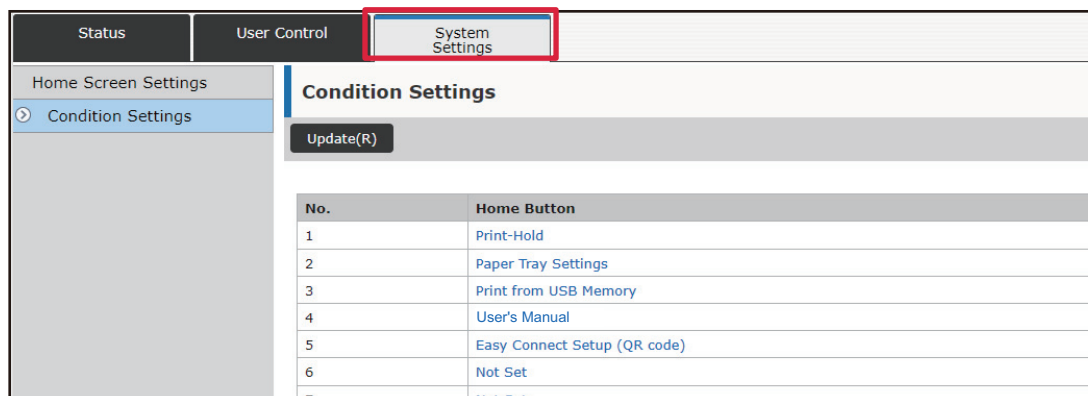
Enter the IP address set in the machine in the address bar of your web browser.

In the factory default state, you must enter your user password after entering the IP address.

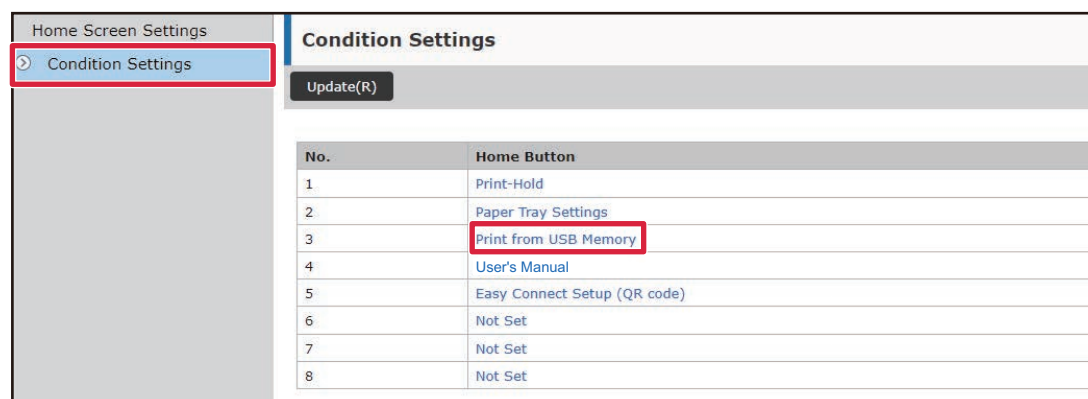
2

On the Web page, click the [System Settings] tab → [Home Screen Settings].

Some settings may require that you enter your user password after clicking [Home Screen Settings]. If you did not perform user authentication, you must enter the administrator password.

**3**

Click [Condition Settings] and click the shortcut key you want to delete.

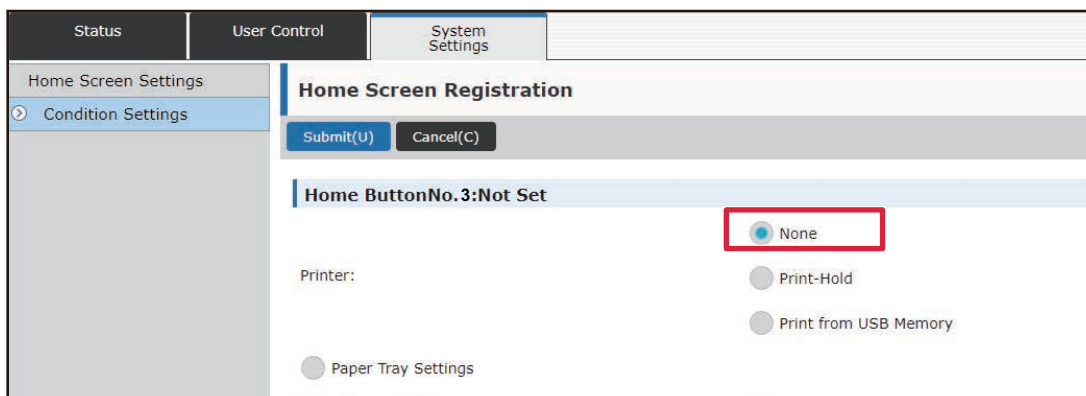




4

Select [None] and click the [Submit] button.

When you click the [Submit] button, the [Home Screen Registration] screen closes.



5

When you have finished configuring the settings, click the [Submit] button.

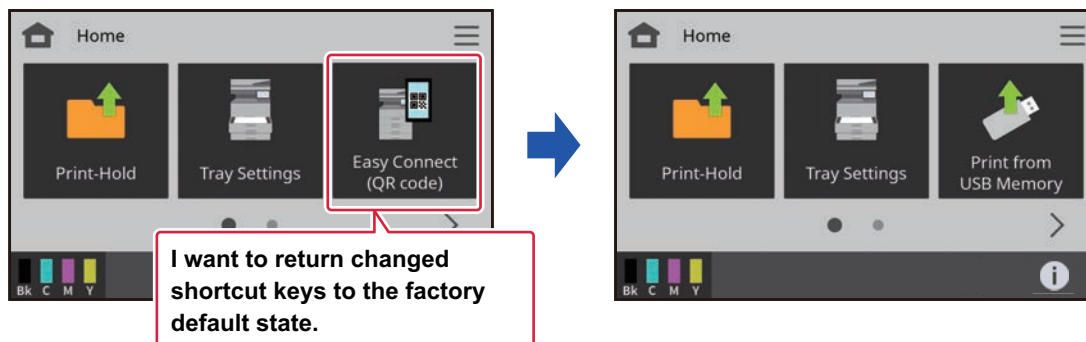
The settings are saved in the machine and applied.

When you have finished settings, click the [Logout] button and close your Web browser.



RETURNING THE SHORTCUT KEYS TO THE FACTORY DEFAULT STATE

This section explains how to return the shortcut keys in the home screen to the factory default state. You can add a shortcut key using the from the Web page.

**1**

Enter the IP address set in the machine in the address bar of your web browser.

In the factory default state, you must enter your user password after entering the IP address.

2

On the Web page, click the [System Settings] tab → [Home Screen Settings].

Some settings may require that you enter your user password after clicking [Home Screen Settings]. If you did not perform user authentication, you must enter the administrator password.

Status	User Control	System Settings
Home Screen Settings		
Condition Settings		
Update(R)		
No.	Home Button	
1	Print-Hold	
2	Paper Tray Settings	
3	Easy Connect Setup (QR code)	
4	User's Manual	
5	Print from USB Memory	
6	Not Set	
7	Not Set	



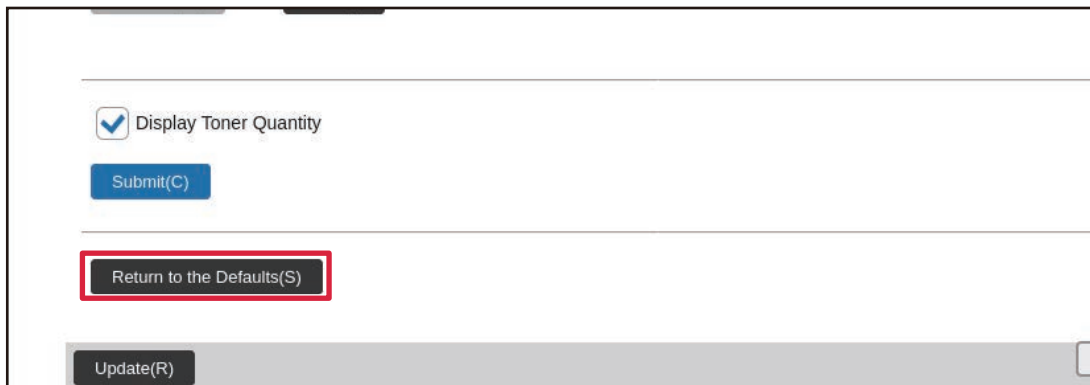
3

Click [Condition Settings], and click the [Return to the Defaults] button.

A confirmation window appears. Click the [OK] button.

The settings are saved in the machine and applied.

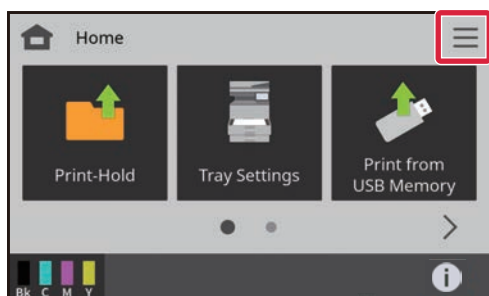
When you have finished settings, click the [Logout] button and close your Web browser.



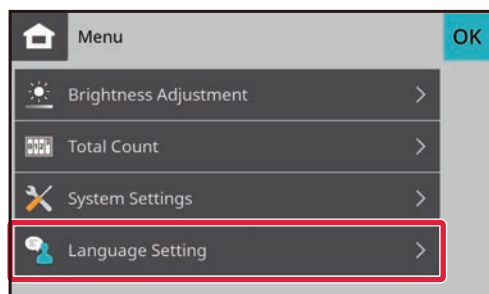


TEMPORARILY CHANGE THE DISPLAY LANGUAGE OF THE MACHINE

Temporarily changes the display language. After restarting the machine, the language will return to the default display language.

**1**

Tap the [Menu] icon.

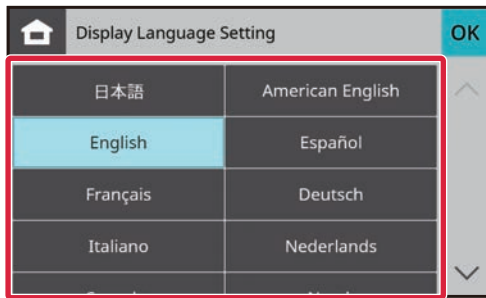
2

Tap the [Language Setting] key.

The shortcut key will be added to the selected location.



3



Select the desired language and tap

OK.

The display changes to the selected language.

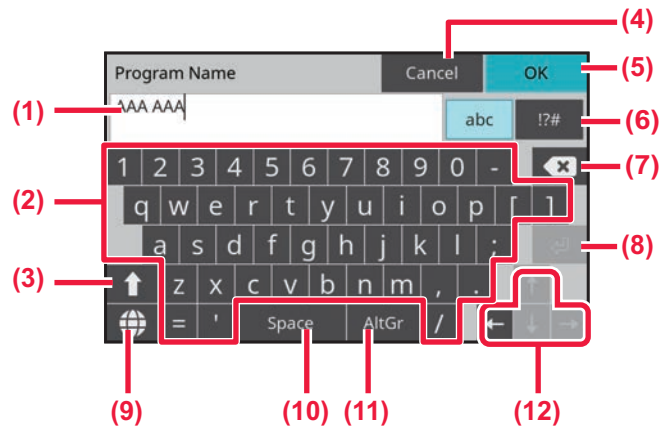


CHARACTER ENTRY

CHARACTER ENTRY

NAMES AND FUNCTIONS OF SOFT KEYBOARD KEYS

Display the soft keyboard to register the name of a file, program, folder or user.



- | | |
|--|---|
| <p>(1) Text input area
Displays the entered text.</p> <p>(2) Keyboard
Tap a key to enter text.
The key types vary depending on the selected entry mode.</p> <p>(3) [Shift] key
Switch the alphabet to upper case.
It can also be locked by pressing and holding it down. For example, when entering upper case letters consecutively. Tap while the lock is engaged to unlock it.</p> <p>(4) [Cancel] key
Exits the soft keyboard.</p> <p>(5) [OK] key
Finalizes the entered characters and exits the soft keyboard.</p> <p>(6) [Symbols] key
Switch to other input modes.</p> | <p>(7) Backspace key
Deletes one character to the left.</p> <p>(8) [Enter] key
Temporarily fixes the converted characters or inserts a line break.</p> <p>(9) Keyboard Select
Switches the key layout.</p> <p>(10) [Space] key
Converts the entered characters. The [Space] key inserts a space between words if there are no characters specified to be converted.</p> <p>(11) [AltGr] key
Used to enter accented characters and special symbols.</p> <p>(12) Cursor keys
Used to move the cursor or to change the range of the specified conversion target.</p> |
|--|---|



The soft keyboard shown here is an image for your reference. Different keys may be enabled depending on the actual situation and condition under which you enter characters.



SET THE KEYBOARD SETTING

From the operation panel, select [System Settings] → [Common Settings] → [Operation Settings] → [Keyboard Settings].

Keyboard Settings

Keyboard Select

Change the key layout and display according to the set language.



PRINTER

PRINTER FUNCTION OF THE MACHINE

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PRINTING IN A macOS ENVIRONMENT

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PRINTER FUNCTION OF THE MACHINE

PRINTER FUNCTION

The machine is equipped with a full color printing function as standard. To enable printing from your computer, a printer driver must be installed.

See the table below to determine which printer driver to use in your environment.

WINDOWS ENVIRONMENT

Printer driver type
PCL6 The machine support the Hewlett-Packard PCL6 printer control languages.
PS <ul style="list-style-type: none">• This machine can be used as a PostScript3 compatible printer with a printer driver that supports PCL, a page description language provided by Sharp.• If it is desired to use the Windows standard PS printer driver, the PPD driver must be used.



- To install the printer driver and configure settings in a Windows environment, see the Software Setup Guide.
- The User's Manual mainly uses PCL6 printer driver screens to explain how to print in a Windows environment. The printer driver screens may differ slightly depending on the printer driver you are using.

macOS ENVIRONMENT

Printer driver type
PS This machine can be used as a PostScript3 compatible printer with a printer driver that supports PCL, a page description language provided by Sharp.



- To install the printer driver and configure settings in a macOS environment, see the Software Setup Guide.
- The explanations of screens and procedures for use in a macOS environment generally assume that macOS 14 is being used and a PPD driver is installed. The screens may be different depending on the version of the operating system or the software application.



If a notice page is printed

If a print job cannot be printed as specified and the reason is not shown on the operation panel, a notice page indicating the reason will print. Read the message and take appropriate action. For example, a notice page will print if the following occurs:

- There is more print data than can be held in memory.
- You selected a function that has been prohibited by the administrator.



PRINTING IN A WINDOWS ENVIRONMENT

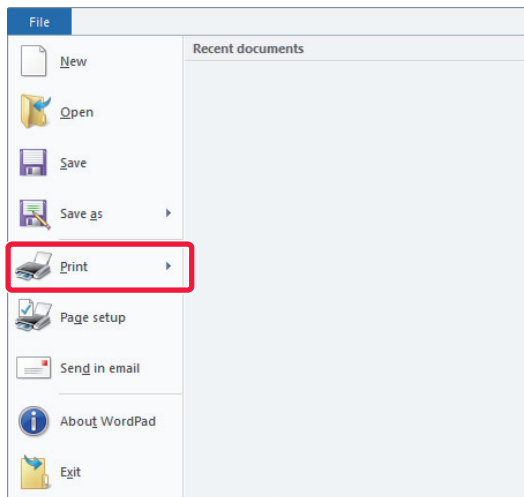
BASIC PRINTING PROCEDURE

The following example explains how to print a document from "WordPad", which is a standard accessory application in Windows.



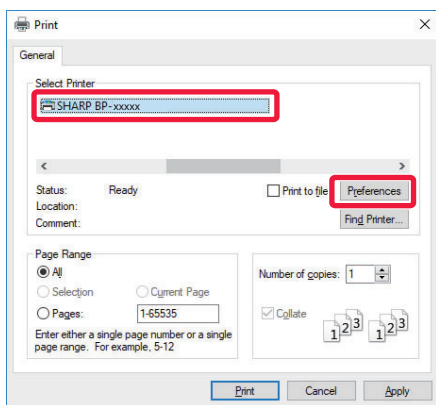
- The menu used to execute printing may vary depending on the application.
- The button that is used to open the printer driver properties window (usually [Property] or [Preferences]) may vary depending on the application.
- The machine name that normally appears in the [Printer] menu is [BP-xxxxx]. ("xxxxx" is a sequence of characters that varies depending on the machine model.)

1



Select [Print] from the [File] menu of WordPad.

2

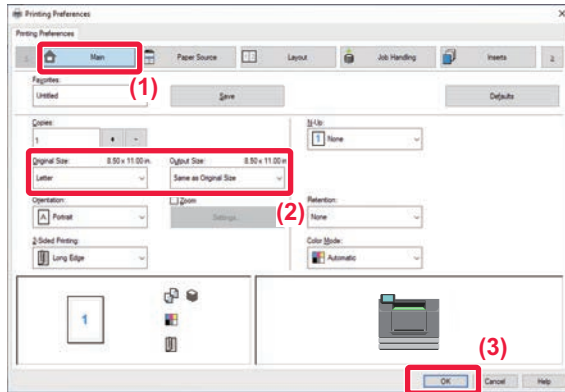


Select the printer driver for the machine and click the [Preferences] button.

The button that is used to open the printer driver properties window (usually [Property] or [Preferences]) may vary depending on the application.



3



Select print settings.

(1) Click the [Main] tab.

(2) Select the original size.

- You can register up to seven user-defined sizes in the menu. To store an original size, select [Custom Paper] or one of [User1] to [User7] from the menu, and click the [OK] button.
- To select settings on other tabs, click the desired tab and then select the settings.
[PRINTER DRIVER SETTINGS SCREEN / REFERRING TO HELP \(page 3-5\)](#)
- If an original size larger than the largest paper size that the machine supports is set, select the paper size for printing in "Output Size".
- If an "Output Size" different from the "Original Size" is selected, the print image will be adjusted to match the selected paper size.

(3) Click the [OK] button.

4

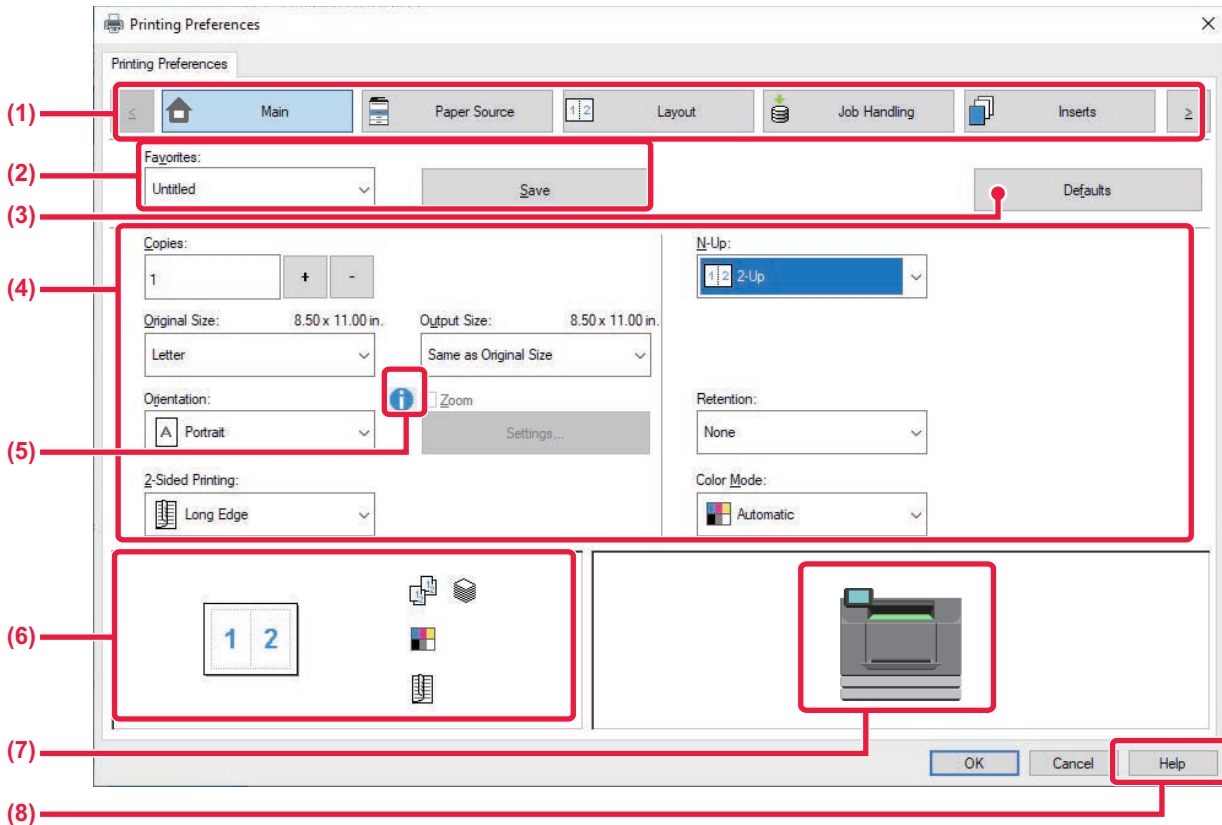
Click the [Print] button.

Printing begins.



PRINTER DRIVER SETTINGS SCREEN / REFERRING TO HELP

The printer driver settings screen consists of 8 tabs. Click a tab to select the settings on that tab. You can check information on each of the settings in the Help screen. Click the [Help] button at the bottom right of the screen.



(1) Tabs: Click to change the tabs shown.

- [Main]: Frequently used functions are grouped on this tab. The settings are also on other tabs, and each setting on this tab is linked to the corresponding setting on the other tab.
- [Paper Source]: Set the size and type of paper used for printing, and the paper tray.
- [Layout]: Select functions related to the layout such as two-sided printing and booklet.
- [Job Handling]: Set retention and user authentication.
- [Inserts]: Select insertion functions such as covers and inserts.
- [Stamp]: Select the watermark or stamp function.
- [Image Quality]: Select various image quality settings.
- [Detailed Settings]: Select other detailed print settings.

(2) Favorites

Settings configured on each tab at the time of printing can be saved as Favorite.

▶ [FREQUENTLY USED FUNCTIONS \(page 3-10\)](#)

(3) Defaults

Return the settings on the currently selected tab to their default state.

(4) Setup Items

Displays the settings on each tab.

(5) Information icon ()

Some restrictions exist on the combinations of settings that can be selected in the printer driver properties window. When a restriction exists on a selected setting, an information icon () will appear next to the setting. Click the icon to view an explanation of the restriction.



(6) Print image

This lets you visually check how the current settings affect the print image. Finishing settings and the color mode are indicated by icons.


(7) Machine image

This shows the options that are installed on the machine, and the paper trays and output trays that are used.

(8) [Help] button

Displays the Help window of the printer driver.



- Help can be displayed for a setting by clicking the setting and pressing the [F1] key.
- You can click the  button in the upper right corner of the settings screen and then click a setting to show Help for that setting in a sub-window.

SELECTING THE PAPER

Before printing, check the paper sizes, paper types, and paper remaining in the machine's trays. To check the most recent tray information, click the [Tray Status] button in the [Paper Source] tab.

The "Output Size" setting and the "Paper Tray" setting are related as follows:

• **When "Paper Tray" is set to [Auto Select]**

The tray that contains paper of the size and type selected in "Output Size" and "Paper Type" is automatically selected.

• **When "Paper Tray" is set to any setting other than [Auto Select]**

The specified tray is used for printing regardless of the "Output Size" setting.

When you have set "Paper Type" to [Bypass Tray], be sure to select "Paper Type". Check the paper type that is set for the bypass tray of the machine, check that paper of that type is actually loaded into the bypass tray, and then select the appropriate paper type.

• **When "Paper Type" is set to [Auto Select]**

A tray with plain paper or recycled paper of the size specified in "Output Size" is automatically selected. (The factory default setting is plain paper 1 only.)

• **When "Paper Type" is set to anything other than [Auto Select]**

A tray with the specified type of paper and the size specified in "Output Size" is used for printing.



Special media such as envelopes can also be placed in the bypass tray.

For the procedure for loading paper in the bypass tray, see "[LOADING PAPER INTO THE BYPASS TRAY \(page 1-15\)](#)".



When [Enable Detected Paper Size in Bypass Tray] (disabled by factory default) or [Enable Selected Paper Type in Bypass Tray] (enabled by factory default), which you can reach by selecting [System Settings] in the Web page → [Printer Settings] → [Condition Settings] → [Bypass Tray Settings] is enabled, printing will not take place if the paper size or paper type specified in the printer driver is different from the paper size or paper type specified in the settings of the bypass tray.

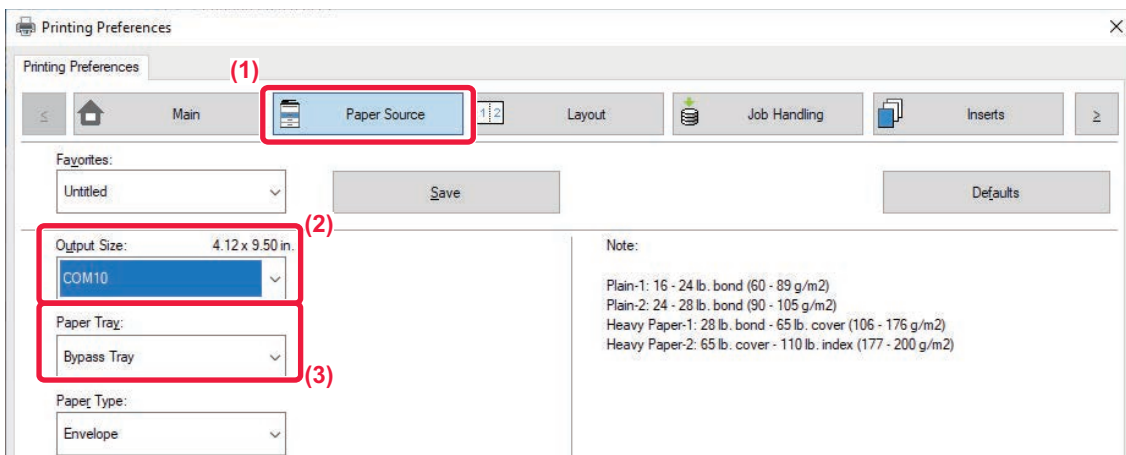


PRINTING ON ENVELOPES

The bypass tray or tray can be used for envelope printing.



- For the types of paper that can be used in the tray, see "[APPLICABLE PAPER TYPES \(page 1-8\)](#)".
- For the procedure for loading paper in the bypass tray, see "[LOADING PAPER INTO THE BYPASS TRAY \(page 1-15\)](#)".
- For the procedure for loading paper in the tray, see "[TRAY 1 - 2 \(page 1-11\)](#)".
- For more information on the procedure for loading paper, see "[SELECTING THE PAPER \(page 3-6\)](#)".
- After printing, there may be creases in the envelope depending on the envelope type and format as well as on the printing environment. Before high-quantity printing, it is recommended that you conduct a test print.
- When using media such as envelopes that can be loaded only in a specific orientation, you can rotate the image 180 degrees. For more information, see "[ROTATING THE PRINT IMAGE 180 DEGREES \(ROTATE 180 DEGREES\) \(page 3-38\)](#)".



(1) Click the [Paper Source] tab.

(2) Select the envelope size from the "Output Size" menu.

When [Output Size] is set to envelope, [Paper Type] is automatically set to [Envelope].

When "Original Size" is set to envelope on the [Main] tab and "Output Size" is set to [Same as Original Size], "Paper Type" is automatically set to [Envelope].

(3) Select [Bypass Tray], [Tray 1] or [Tray 2] in "Paper Tray".



PRINTING WHEN THE USER AUTHENTICATION FUNCTION IS ENABLED

The user information (such as login name and password) that must be entered varies depending on the authentication method being used, so check with the administrator of the machine before printing.



- If you have configured "Printing Policy" on the [Configuration] tab so that user authentication is always performed, users are required to be authenticated for each print job. This is done by entering authentication information in a dialog box that appears each time printing is performed.
- The machine's user authentication function cannot be used when the PPD driver is installed and the Windows standard PS printer driver is used.
For this reason, the machine can be configured to prohibit users from executing printing unless their user information is stored in the machine.

1

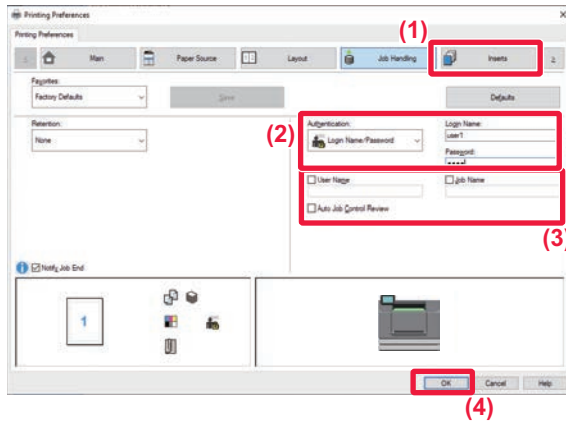
In the printer driver properties window of the application, select the printer driver of the machine and click the [Preferences] button.



The button that is used to open the printer driver properties window (usually [Property] or [Preferences]) may vary depending on the application.



2



Enter your user information.

(1) Click the [Job Handling] tab.

(2) Enter your user information.

- When authentication is performed by login name, select [Login Name] and enter your login name.
- When authentication is performed by login name/password, click [Login Name/Password] and enter your login name and password. Enter the password using 1 to 32 characters
- When authentication is performed by user number, select [User Number] and enter your 5 to 8 digit user number.

(3) Enter the user name and job name as necessary.

- Click the [User Name] checkbox, and enter your user name using up to 32 characters. The entered user name will appear on the touch panel of the machine. If you do not enter a user name, your PC login name will appear.
- Click the [Job Name] checkbox, and enter a job name using up to 30 characters. The entered job name will appear as a file name on the touch panel of the machine. If you do not enter a job name, the file name set in the application will appear.
- To have a confirmation window appear before printing starts, select the [Auto Job Control Review] checkbox.

(4) Click the [OK] button to execute printing.



FREQUENTLY USED FUNCTIONS

SAVING SETTINGS AT THE TIME OF PRINTING

Settings configured on each of the tabs at the time of printing can be saved as Favorite. Saving frequently used settings or complex color settings under an assigned name makes it easy to select those settings the next time you need to use them.

Settings can be saved from any tab of the printer driver properties window. Settings configured on each tab are listed at the time of saving, allowing you to check the settings as you save them.



Deleting saved settings

In step 2 of "[USING SAVED SETTINGS \(page 3-11\)](#)", select the user settings that you want to delete and click the [Delete] button.

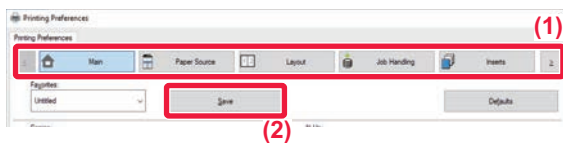
1

Select the machine's printer driver from the print window of the application, and click the [Preferences] button.



The button that is used to open the printer driver properties window (usually [Property] or [Preferences]) may vary depending on the application.

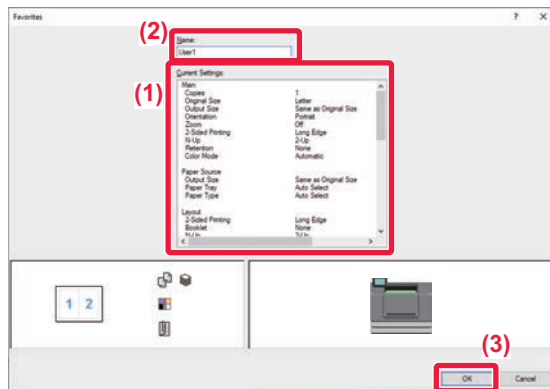
2



Register Print Settings.

- (1) Configure the print settings on each tab.
- (2) Click the [Save] button.

3



Check and save the settings.

- (1) Check the displayed settings.
- (2) Enter a name for the settings using up to 20 characters.
- (3) Click the [OK] button.



USING SAVED SETTINGS

You can specify the saved favorites through just one click to apply frequently used settings or complicated color settings to your printing.

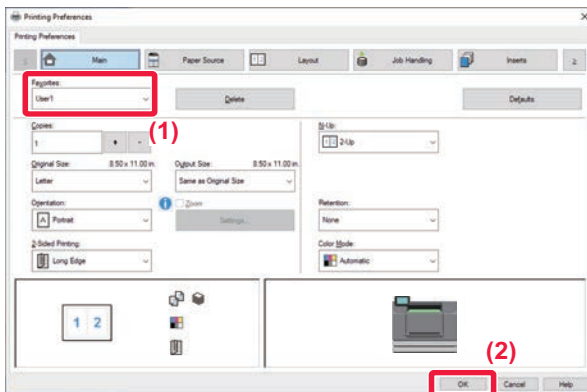
1

Select the machine's printer driver from the print window of the application, and click the [Preferences] button.



The button that is used to open the printer driver properties window (usually [Property] or [Preferences]) may vary depending on the application.

2



Select favorite settings.

(1) Select the favorite settings you want to use.

(2) Click the [OK] button.

3

Start printing.



CHANGING THE PRINTER DRIVER DEFAULT SETTINGS

You can change the default settings of the printer driver.

Changes you have made in the printer driver properties window when you execute printing from the application are returned to the default settings specified here when you exit the application.

1

Click the [Start] button, select [Settings] → [Device] → [Printers & scanners].



In Windows 11, click the [Start] button, select [Bluetooth & devices] → [Printers & scanners].

2



Click the printer driver name of the machine and click [Manage].

3

Click [Start].

4

Configure the settings and click the [OK] button.

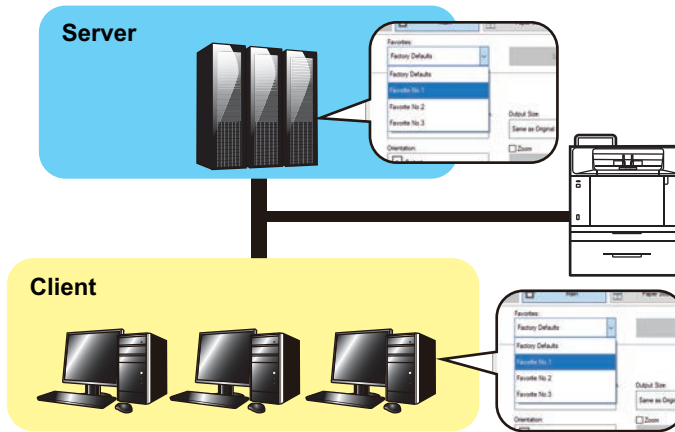
For explanations of the settings, see printer driver Help.



SHARE FAVORITE SETTINGS BETWEEN SERVER AND CLIENT

When using this machine as a shared printer, if "Favorite" is set in the printer driver of the shared server, this setting can also be used on the shared destination.

When "Share Favorites" is enabled...



The favorite settings configured on the server can be used on the client computer. Configure the following settings in the printer driver of the shared server.

1

Click the [Start] button, select [Settings] → [Device] → [Printers & scanners].



In Windows 11, click the [Start] button, select [Bluetooth & devices] → [Printers & scanners].

2

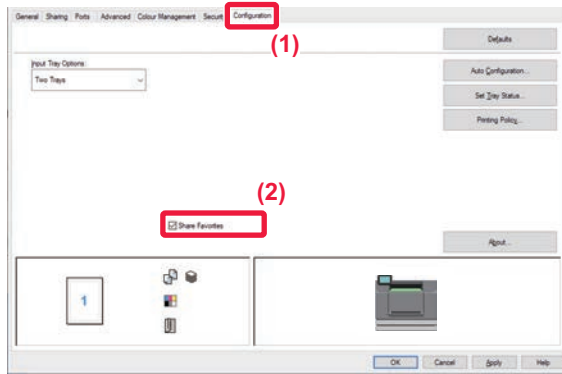
Click the printer driver name of the machine and click [Manage].

3

Click [Printer Properties].



4



Configure the sharing settings.

- (1) Click the [Configuration] tab.
- (2) Set the [Share Favorites] check box to .



PRINTING IN A macOS ENVIRONMENT

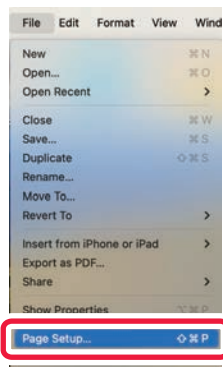
BASIC PRINTING PROCEDURE

The following example explains how to print a document from the standard accessory application "TextEdit" in macOS.



- To install the printer driver and configure settings in a macOS environment, see the Software Setup Guide.
- The explanations of screens and procedures for use in a macOS environment generally assume that macOS 14 is being used and a PPD driver is installed. The screens may be different depending on the version of the operating system or the software application.
- The menu used to execute printing may vary depending on the application.

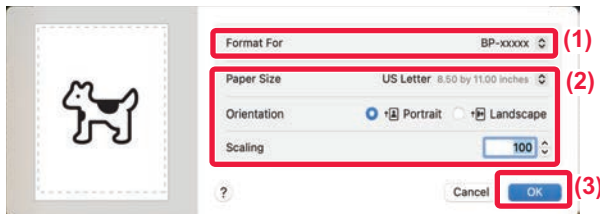
1



Select [Page Setup] from the [File] menu and select the printer.

If the printer drivers appear as a list, select the name of the printer driver to be used from the list.

2



Select paper settings.

(1) Make sure that the correct printer is selected.

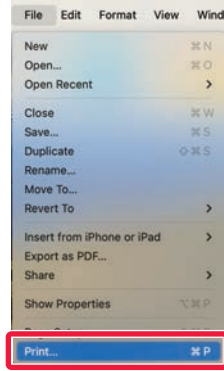
(2) Select paper settings.

Paper size, paper orientation, and enlarge/reduce settings can be selected.

(3) Click the [OK] button.

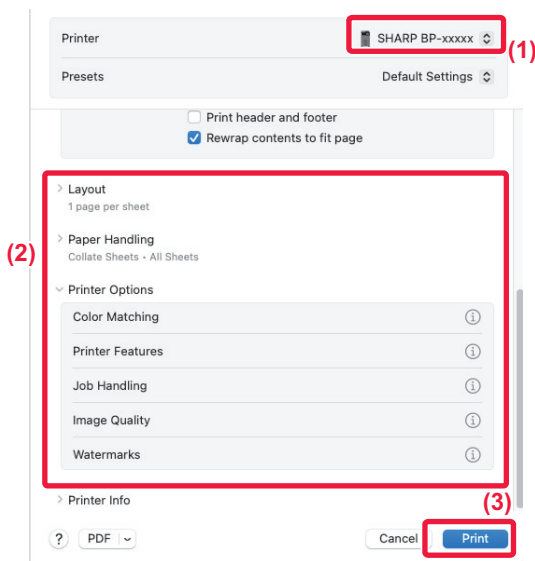


3



Select [Print] from the [File] menu.

4



Select print settings.

- (1) Make sure that the correct printer is selected.
- (2) Select an item from the menu and configure the settings as needed.
- (3) Click the [Print] button.



The layout of the settings menu is different in macOS 12 and earlier.



SELECTING THE PAPER

This section explains the [Paper Feed] settings in the print settings window.

- **When [Auto Select] is selected:**

A tray that is set for plain or recycled paper (only plain paper 1 in the factory default setting) of the size specified in "Paper Size" on the page setup screen is automatically selected.

- **When a paper tray is specified:**

The specified tray is used for printing regardless of the "Paper Size" setting on the page setup screen.

For the bypass tray, also specify the paper type. Check that the paper type that is set for the bypass tray of the machine, check that paper of that type is actually loaded into the bypass tray, and then select the appropriate bypass tray (paper type).

- **When a paper type is specified:**

A tray with the specified type of paper and the size specified in "Paper Size" on the page setup screen is used for printing.



Special media can also be placed in the bypass tray.

For the procedure for loading paper in the bypass tray, see "[LOADING PAPER INTO THE BYPASS TRAY \(page 1-15\)](#)".



When [Enable Detected Paper Size in Bypass Tray] (disabled by factory default) or [Enable Selected Paper Type in Bypass Tray] (enabled by factory default), which you can reach by selecting [System Settings] in the Web page → [Printer Settings] → [Condition Settings] → [Bypass Tray Settings] is enabled, printing will not take place if the paper size or paper type specified in the printer driver is different from the paper size or paper type specified in the settings of the bypass tray.



PRINTING ON ENVELOPES

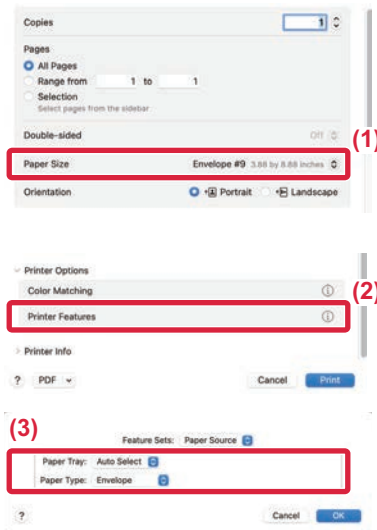
The bypass tray or tray can be used for envelope printing.



- For the types of paper that can be used in the tray, see "[APPLICABLE PAPER TYPES \(page 1-8\)](#)".
- For the procedure for loading paper in the bypass tray, see "[LOADING PAPER INTO THE BYPASS TRAY \(page 1-15\)](#)".
- For the procedure for loading envelope in the tray, see "[TRAY 1 - 2 \(page 1-11\)](#)".
- For more information on the procedure for loading paper, see "[SELECTING THE PAPER \(page 3-17\)](#)".
- When using media such as envelopes that can be loaded only in a specific orientation, you can rotate the image 180 degrees. For more information, see "[ROTATING THE PRINT IMAGE 180 DEGREES \(ROTATE 180 DEGREES\) \(page 3-38\)](#)".
- After printing, there may be creases in the envelope depending on the envelope type and format as well as on the printing environment. Before high-quantity printing, it is recommended that you conduct a test print.

Select the envelope size in the settings of the application ("Page Setup" in many applications) and then perform the following steps.

1



Select print settings.

- (1) Select the envelope size from the "Paper Size" menu.
- (2) Select [Printer Features] from the "Printer Options", and then select [Paper Source].
In macOS 12 and earlier, select [Printer Features] and then select [Paper Source].
- (3) Select the [Auto Select] from the "Paper Tray" menu.



When [Enable Selected Paper Type in Bypass Tray] (enabled by factory default) is enabled in the Web page, set the paper type of the bypass tray to [Envelope].



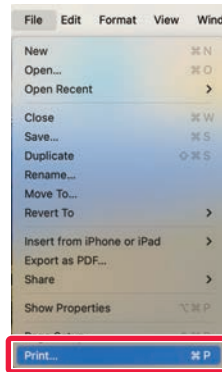
PRINTING WHEN THE USER AUTHENTICATION FUNCTION IS ENABLED

The user information (such as login name and password) that must be entered varies depending on the authentication method being used, so check with the administrator of the machine before printing.



The menu used to execute printing may vary depending on the application.

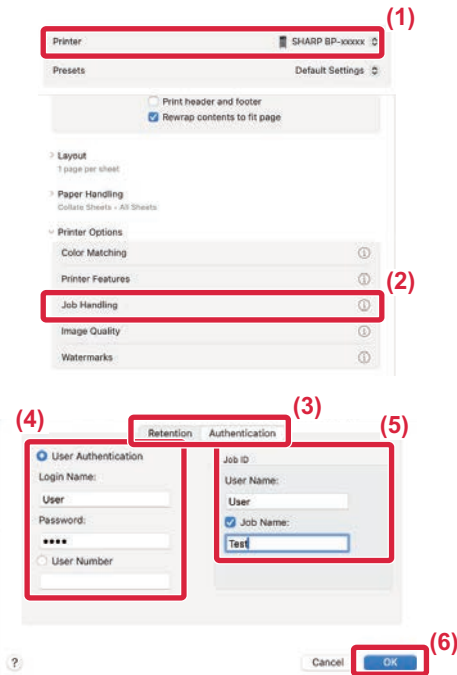
1



In the application, select [Print] from the [File] menu.



2



Enter your user information.

- (1) **Make sure that the machine's printer name is selected.**
- (2) **Select [Job Handling] from the "Printer Options".**
In macOS 12 and earlier, select [Job Handling].
- (3) **Switch to [Authentication].**
- (4) **Enter your user information.**
 - When authentication is carried out using the login name/password, enter your login name in "Login Name" and your password (1 to 32 characters) in "Password".
 - When authentication is carried out using the user number, enter your user number (5 to 8 digits) in "User Number".
- (5) **Enter the user name and job name as necessary.**
 - **User Name**
Enter your user name using up to 32 characters. The entered user name will appear on the touch panel of the machine. If you do not enter a user name, your PC login name will appear.
 - **Job Name**
Enter a job name using up to 32 characters. The entered job name will appear as a file name on the touch panel of the machine. If you do not enter a job name, the file name set in the application will appear.
- (6) **Click the [OK] button.**



FREQUENTLY USED FUNCTIONS

SELECTING THE COLOR MODE

The following three selections are available for the "Color Mode" (a set of colors used for printing):

Automatic	The machine automatically determines whether each page is color or black and white and prints the page accordingly. Pages with colors other than black and white are printed using Y (Yellow), M (Magenta), C (Cyan) and Bk (Black) toner. Pages that are only black and white are printed using Bk (Black) toner only. This is convenient when printing a document that has both color and black and white pages, however, the printing speed is slower.
Color	All pages are printed in color. Both color data and black and white data are printed using Y (Yellow), M (Magenta), C (Cyan) and Bk (Black) toner.
Black and White	All pages are printed in black and white. Color data such as images or materials for a presentation is printed using black toner only. This mode helps conserve color toner when you do not need to print in color, such as when proofreading or checking the layout of a document.



When "Color Mode" is set to [Automatic]:

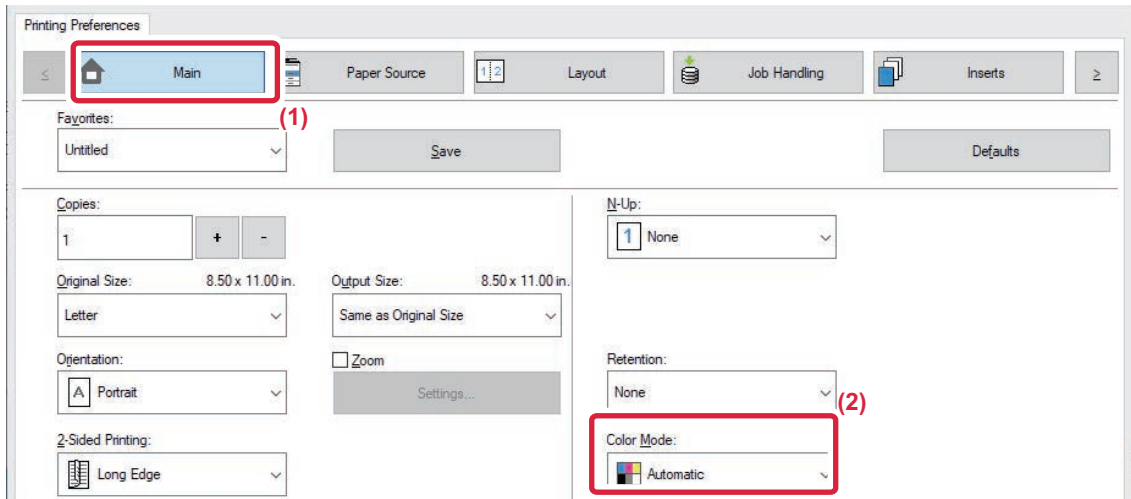
Even if the print result is black and white, the following types of print jobs will be counted as 4-color (Y (Yellow), M (Magenta), C (Cyan), and Bk (Black)) print jobs.

When you want such jobs to be counted as black and white jobs, select [Black and White].

- When the data is created as color data.
- When the application treats the data as color data even though the data is black and white.
- When an image is hidden under a black and white image.



Windows



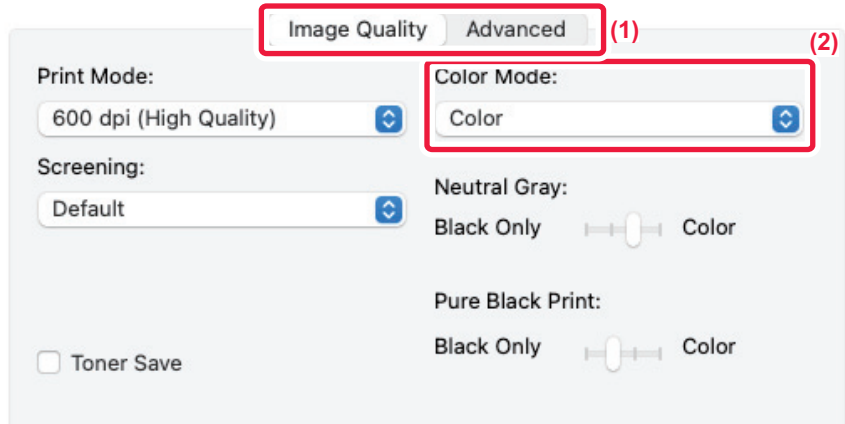
- (1) Click the [Main] tab.
- (2) Select "Color Mode".



In addition to the [Main] tab, [Color Mode] can also be set on the [Image Quality] tab.



macOS



(1) Select [Image Quality] from the "Printer Options".

In macOS 12 and earlier, select [Image Quality].

(2) Select "Color Mode".

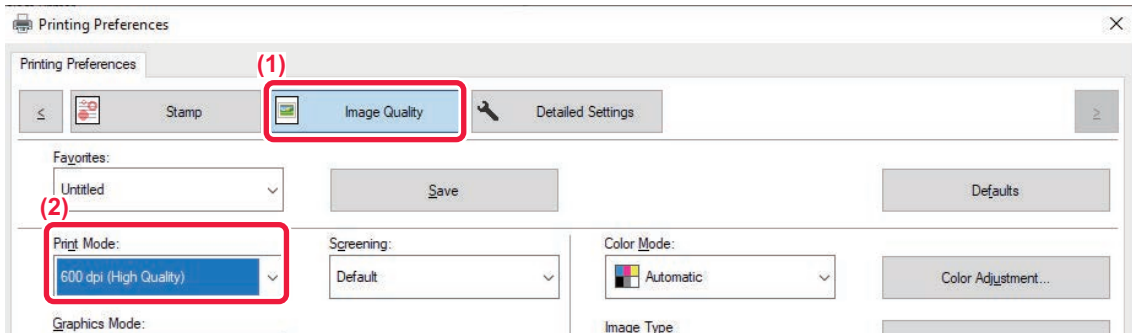


SELECTING THE RESOLUTION

The following two selections are available for "Print Mode" (resolution):

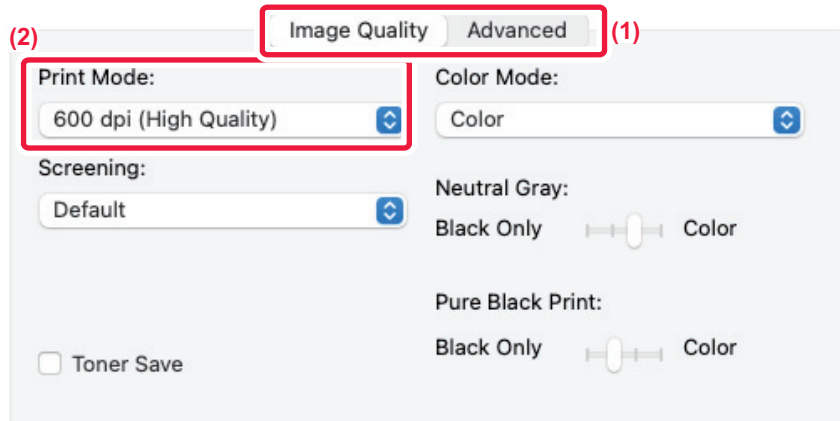
600 dpi	This mode is suitable for printing data such as regular text or a table.
600 dpi (High Quality)	The print quality of color photos and text are high.

Windows



- (1) Click the [Image Quality] tab.
- (2) Select "Print Mode".

macOS


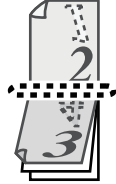




- (1) Select [Image Quality] from the "Printer Options".
In macOS 12 and earlier, select [Image Quality].
- (2) Select "Print Mode".

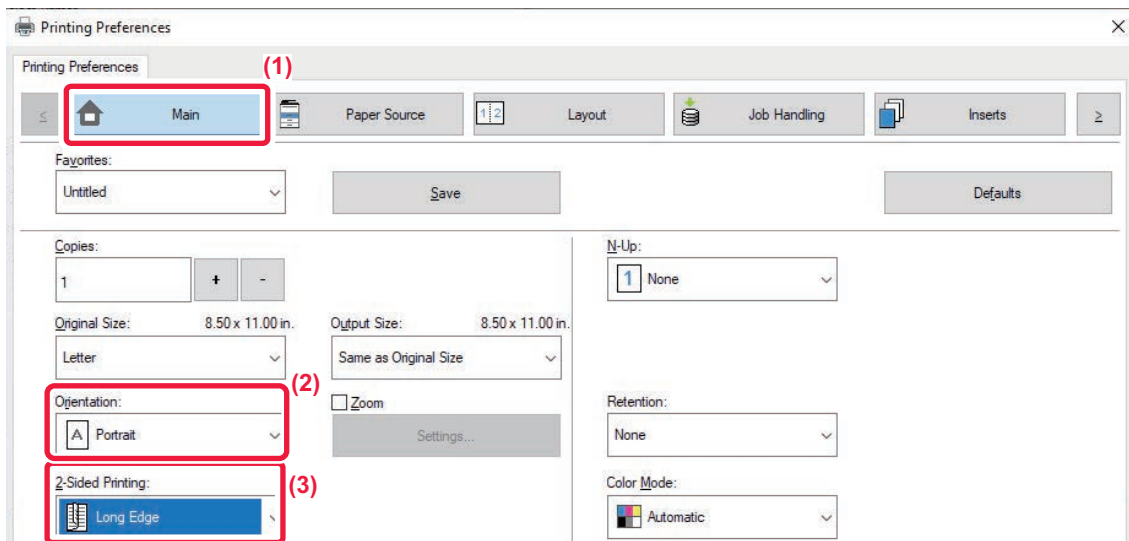


2-SIDED PRINTING

The machine can print on both sides of the paper. This function is useful for many purposes, and is particularly convenient when you want to create a simple pamphlet. 2-sided printing also helps conserve paper.

Paper orientation	Print results	
Portrait	Long Edge	Short Edge
		
Landscape	Short Edge	Long Edge
		
	The pages are printed so that they can be bound at the left or right side.	The pages are printed so that they can be bound at the top.

Windows



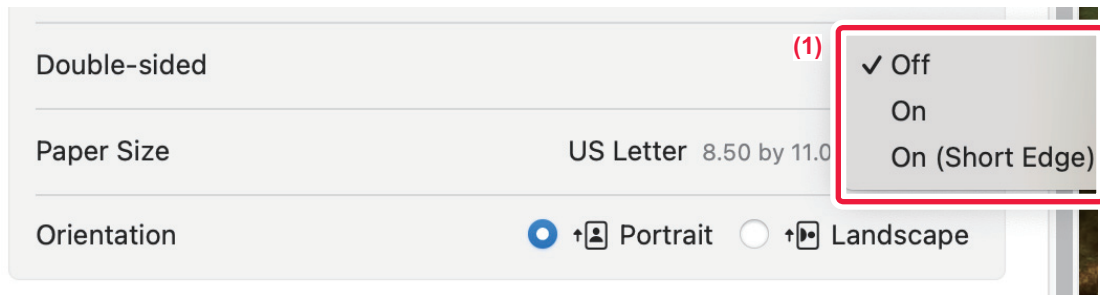
- (1) Click the [Main] tab.
- (2) Select the paper orientation.
- (3) Select [Long Edge] or [Short Edge].



If necessary, you can select the method of implementing 2-sided printing. Click the [Other Settings] button on the [Detailed Settings] tab, and select the mode from "Duplex Style".



macOS



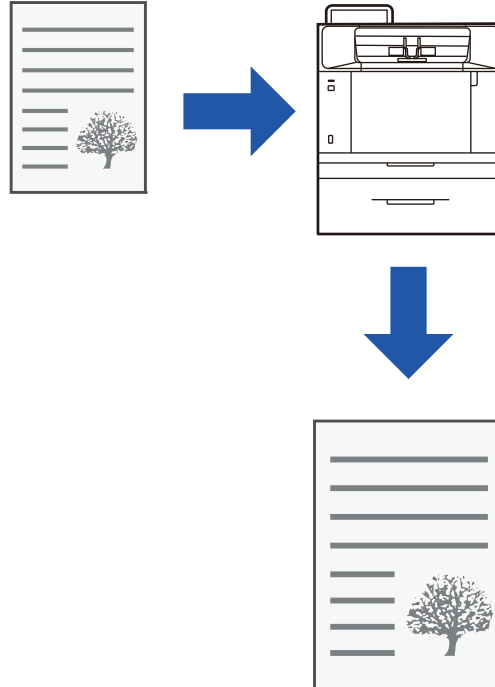
(1) Select [On] for long edge binding and [On (Short Edge)] for short edge binding.

In macOS 12 and earlier, select [Long-Edge binding] or [Short-Edge binding].



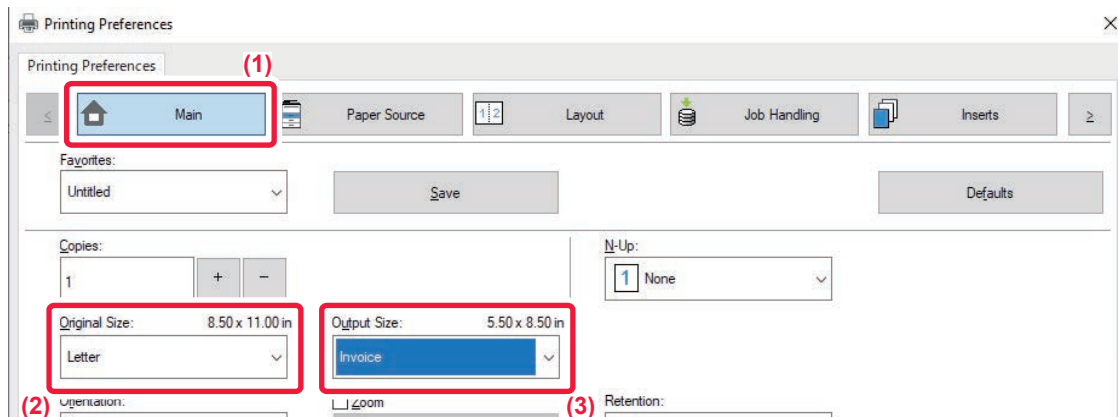
FITTING THE PRINT IMAGE TO THE PAPER

This function automatically enlarges or reduces the print image to match the size of the paper loaded in the machine. This function is convenient when enlarging an invoice or A5 size document to letter or A4 size to make it easier to view, or when printing a document on paper that is different in size from the original document.



The following example explains how to print an Invoice (or A5) size document on Letter (or A4) size paper.

Windows



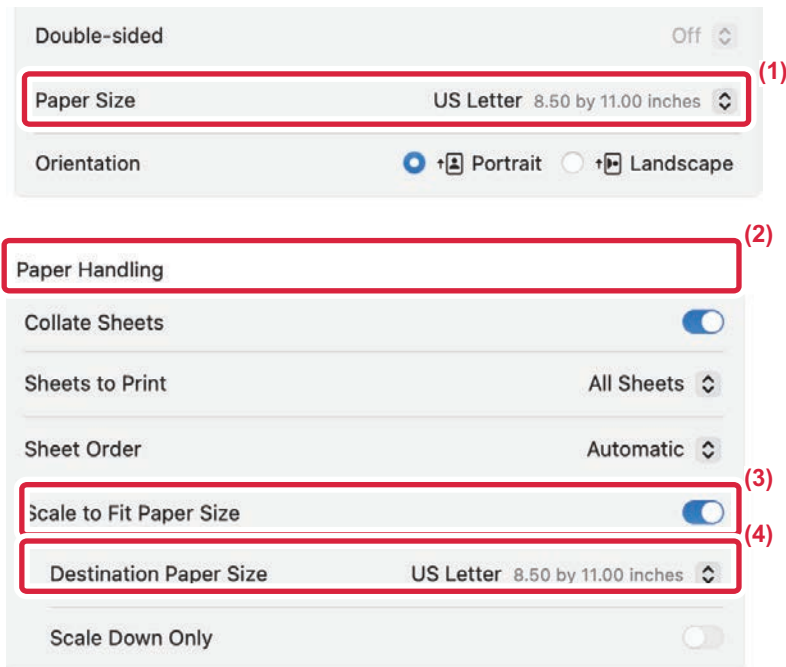
- (1) Click the [Main] tab.
- (2) Select the original size from [Original Size] (for example: Letter).
- (3) Select the actual paper size to be used for printing from [Output Size] (for example: Invoice).
If the output size is larger than the original size, the printed image will be automatically enlarged.



If A0, A1, A2, B1, B2, B3, A3, B4, Ledger, or 8K size is selected in "Original Size", Letter (or A4) is automatically selected in "Output Size".



macOS



- (1) Check the paper size for the print image (for example: Invoice).
- (2) Select [Paper Handling].
- (3) Select [Scale to fit paper size].
- (4) Select the actual paper size to be used for printing (for example: US Letter) from "Destination Paper Size".

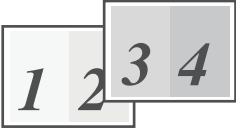
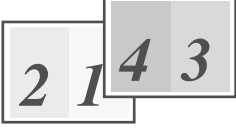
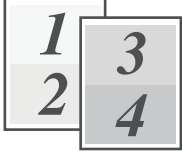






PRINTING MULTIPLE PAGES ON ONE PAGE

This function reduces the print image and prints multiple pages on a single sheet of paper. You can print only the first page in the original size and print multiple reduced pages on the subsequent sheets.

For example, when [2-Up] (2 pages per sheet) or [4-Up] (4 pages per sheet) is selected, the following print results will be obtained, depending on the selected page order.

This is convenient when you want to print multiple images such as photos on a single sheet of paper, and when you want to conserve paper. When used in combination with 2-sided printing, this function saves more paper.

2-Up (2 pages per sheet)			
Left to Right 	Right to Left 	Top To Bottom (When the print orientation is landscape) 	
4-Up (4 pages per sheet)			
Right, and Down 	Down, and Right 	Left, and Down 	Down, and Left 



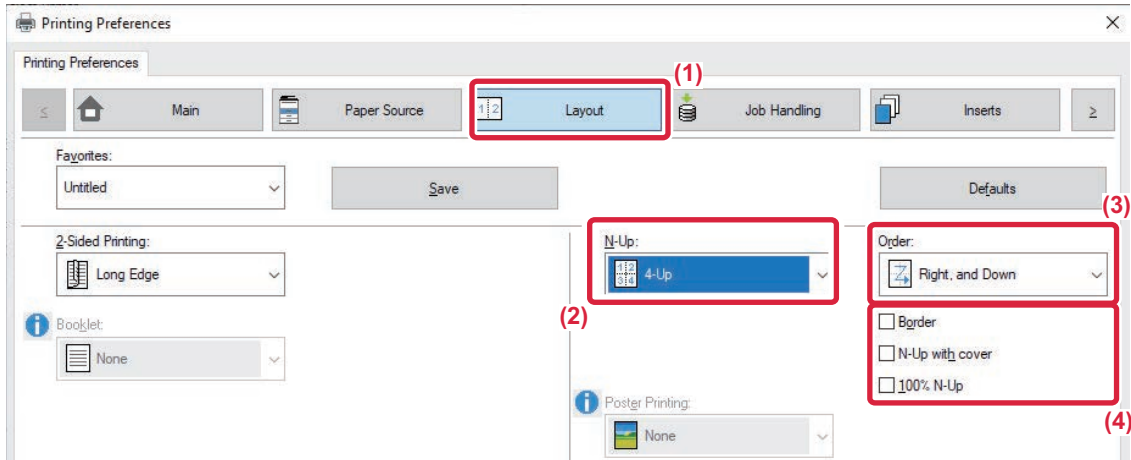
- [N-Up] that can be set on the [Layout] tab can also be set on the [Main] tab. ("Order" can only be set in the [Layout] tab.)
- Note the following when printing multiple pages on one sheet:
 - The page orders for 6-Up, 8-Up, 9-Up, and 16-Up are the same as for 4-Up.
 - In a Windows environment, the page order can be viewed in the print image in the printer driver properties window.
 - In a macOS environment, the page orders are displayed as selections.
 - In a macOS environment, the number of pages that can be printed on a single sheet is 2, 4, 6, 9, or 16. Printing 8 pages on one sheet is not supported.



The function for printing only the first page normally can only be used in the PCL6 printer driver.

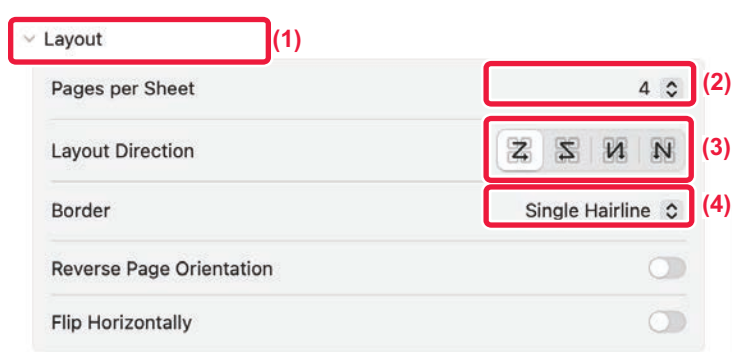


Windows



- (1) Click the [Layout] tab.
- (2) Select the number of pages per sheet.
- (3) Select the order of the pages.
- (4) If you wish to print borderlines, click the [Border] checkbox so that the checkmark appears.
 - To print the first page normally (as a cover), select the [N-Up with cover] checkbox (). (PCL6 only)
 - When [100% N-Up] is selected () for jobs such as N-Up copying of two A5 size pages onto one A4 sheet, the pages will be printed at the full size of the original. If you select [Border] at this time, only the border will be printed.

macOS

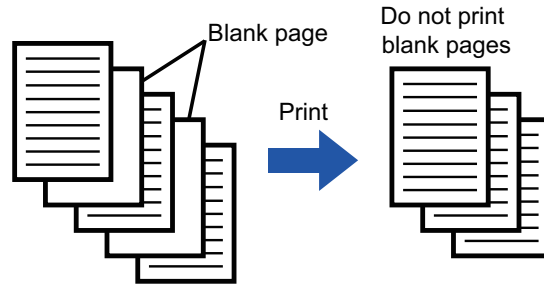


- (1) Select [Layout].
- (2) Select the number of pages per sheet.
- (3) Select the order of the pages.
- (4) If you wish to print borderlines, select the desired type of borderline.



PRINTING WHILE SKIPPING BLANK PAGES

If the scanned original contains blank pages, the blank pages are skipped during printing. The machine detects blank pages and does not print them. This eliminates unnecessary printing without you having to check for blank pages before printing.

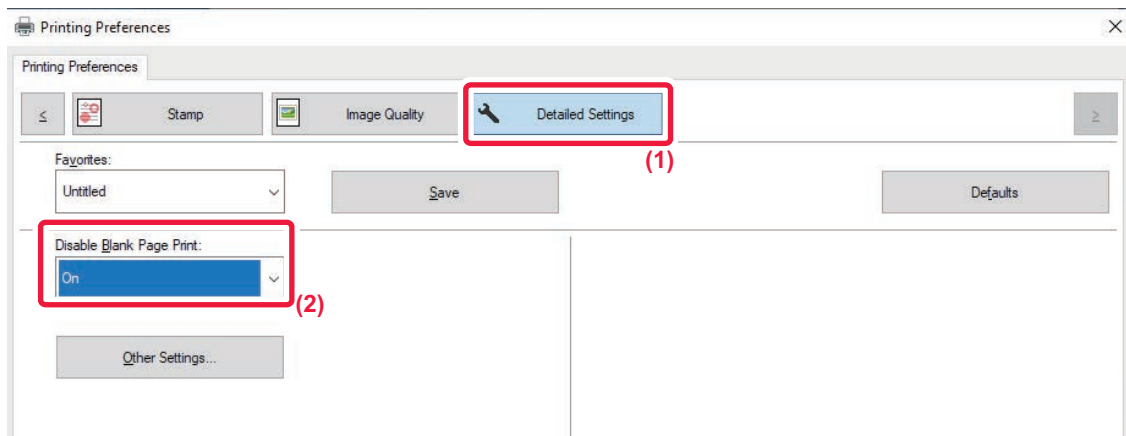


This function is available in a Windows environment.



- Depending on the state of the original, some pages that are not blank may be detected as blank pages and thus not being printed, or some pages that are blank may not be detected as blank and thus printed.
- In N-Up Print, blank pages are not excluded and are printed.

Windows



- (1) Click the [Detailed Settings] tab.
- (2) Select [On] in [Disable Blank Page Print].

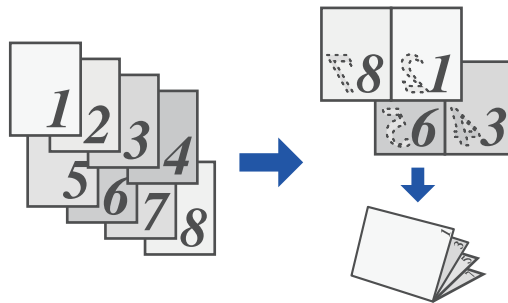


CONVENIENT PRINTING FUNCTIONS

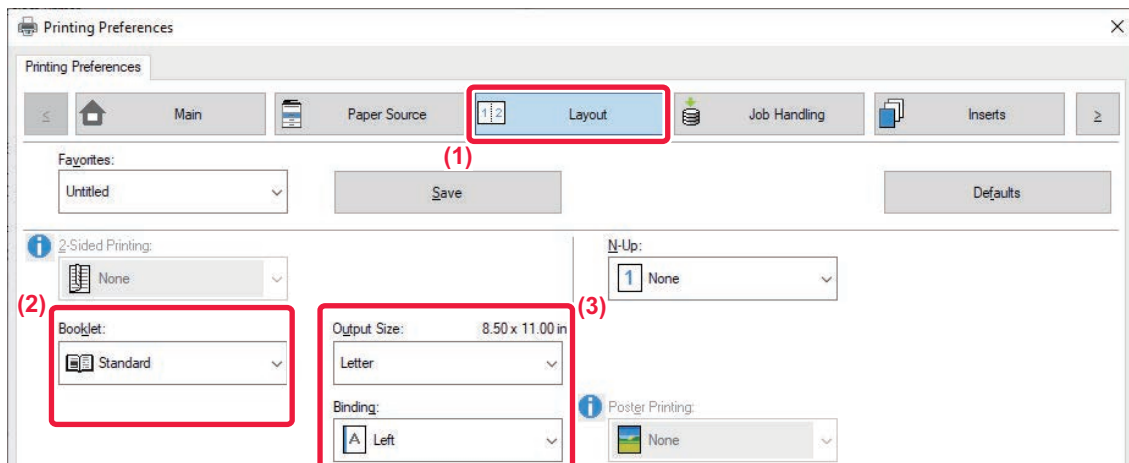
CONVENIENT FUNCTIONS FOR CREATING PAMPHLETS AND POSTERS

CREATE A PAMPHLET (BOOKLET)

The pamphlet function prints on the front and back of each sheet of paper so that the sheets can be folded and bound to create a pamphlet.



Windows



(1) Click the [Layout] tab.

(2) Select [Standard] in "Booklet".

The printed image will be enlarged or reduced to fit the paper selected in "Output Size".

(3) Select the specified output size and the binding edge.



macOS



(1) Select [Printer Features] from the "Printer Options", and then select [Output].

In macOS 12 and earlier, select [Printer Features] and then select [Output].

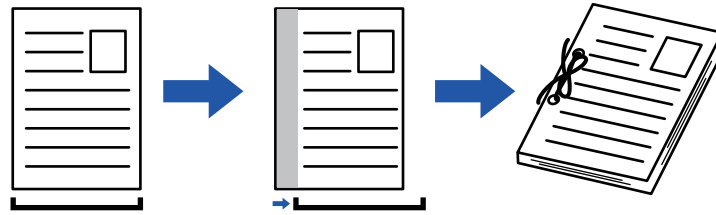
(2) Select "Binding Edge".

(3) Select "Booklet".



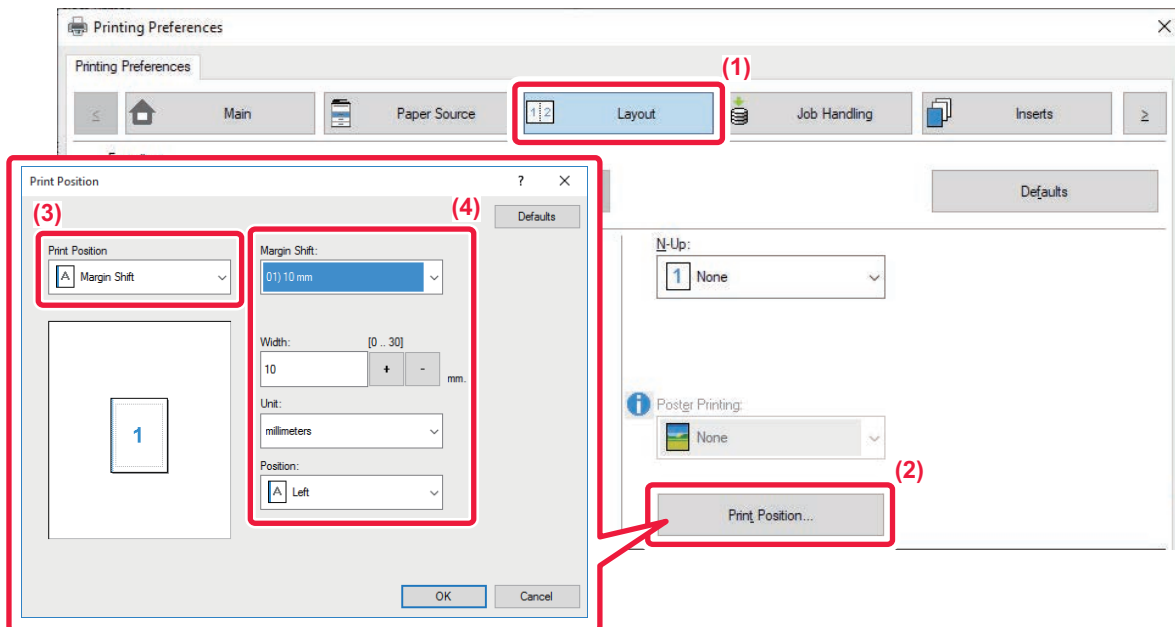
PRINTING WITH MARGIN SHIFT SETTING (MARGIN)

This function shifts the print image to increase the margin at the left, the right, or the top of the paper.



By shifting the image, the part of the image that is outside the print area will not be printed.

Windows

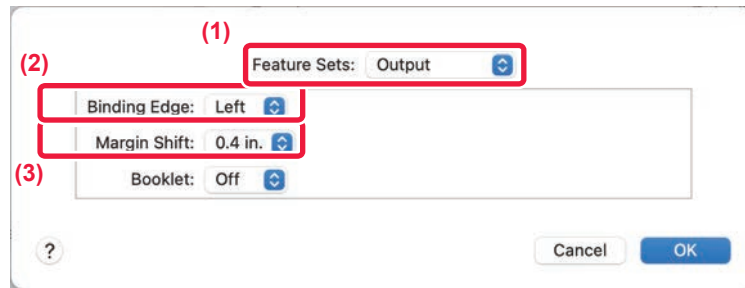


- (1) Click the [Layout] tab.
- (2) Click the [Print Position] button.
- (3) Select [Margin Shift].
- (4) Select the shift width.

Select from the "Margin Shift" menu. If you wish to configure another numeric setting, select the setting and click buttons or directly enter the number.



macOS



(1) Select [Printer Features] from the "Printer Options", and then select [Output].

In macOS 12 and earlier, select [Printer Features] and then select [Output]

(2) Select "Binding Edge".

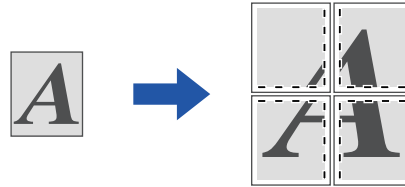
(3) Select "Margin Shift".



CREATE A LARGE POSTER (POSTER PRINTING)

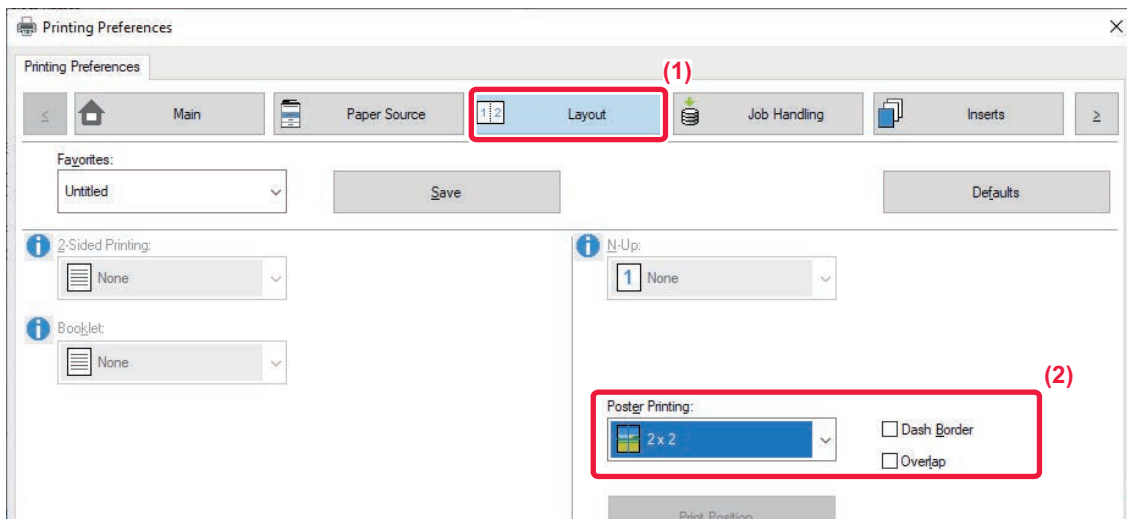
One page of print data is enlarged and printed using multiple sheets of paper (2 sheets (1 x 2), 4 sheets (2 x 2), 9 sheets (3 x 3) or 16 sheets (4 x 4)). The sheets can then be attached together to create a large poster.

To enable precise alignment of the edges of the sheets during attachment, borderlines can be printed or overlapping edges can be created (overlap function).



This function is available in a Windows environment.

Windows



(1) Click the [Layout] tab.

(2) Select the number of sheets to be used in "Poster Printing".

If you wish to print borderlines and/or use the overlap function, click the corresponding checkboxes so that the appears.



FUNCTIONS TO ADJUST THE SIZE AND ORIENTATION OF THE IMAGE

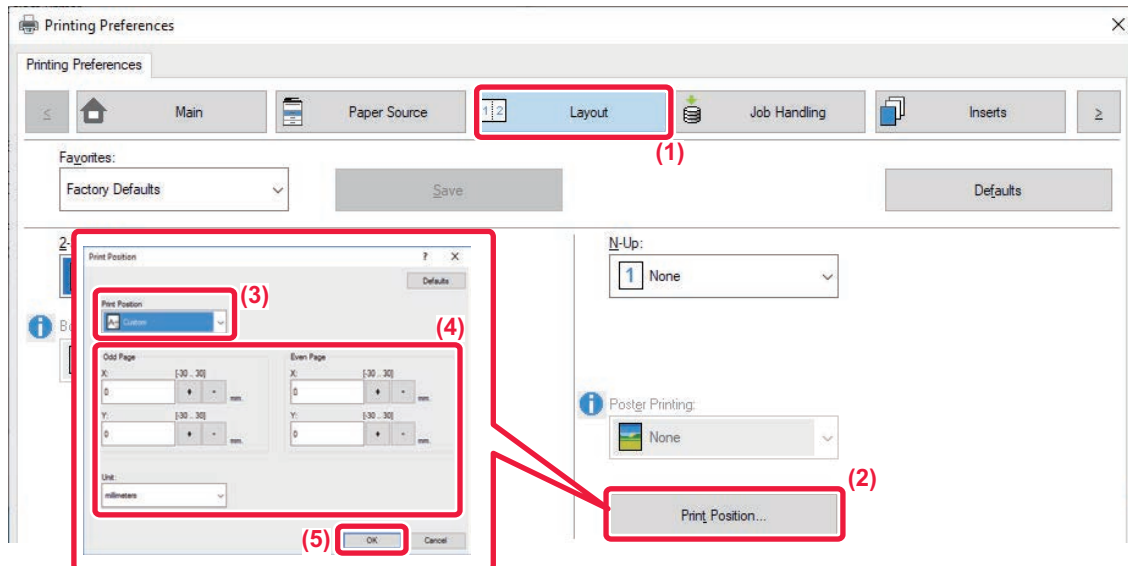
ADJUST PRINT POSITION ON ODD AND EVEN PAGES SEPARATELY (PRINT POSITION)

This function sets different print positions (margins) separately for odd and even pages and prints the pages.



This function is available in a Windows environment.

Windows

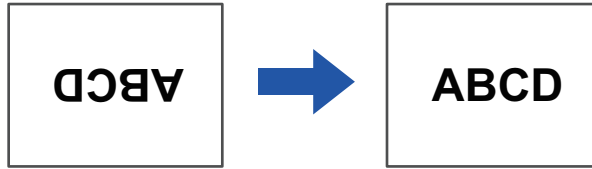


- (1) Click the [Layout] tab.
- (2) Click the [Print Position] button.
- (3) Select [Custom].
- (4) Set the amount of shifting of the print position for odd-numbered pages and even-numbered pages.
- (5) Click the [OK] button.

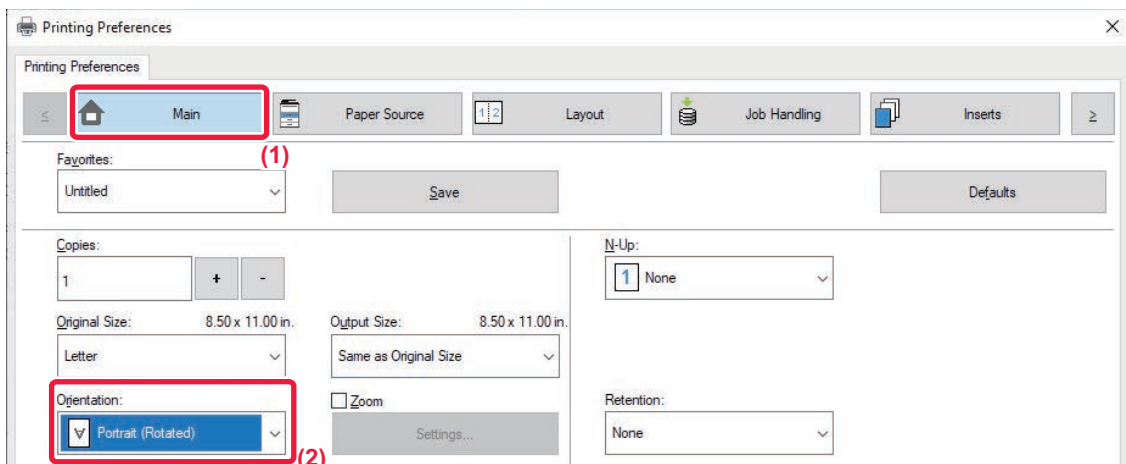


ROTATING THE PRINT IMAGE 180 DEGREES (ROTATE 180 DEGREES)

This feature rotates the image 180 degrees so that it can be printed correctly on paper that can be loaded in only one orientation (such as envelopes or paper with punch holes).

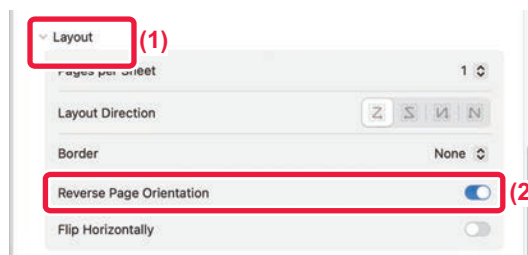


Windows



- (1) Click the [Main] tab.
- (2) Select [Portrait (Rotated)] or [Landscape (Rotated)] in "Orientation".

macOS



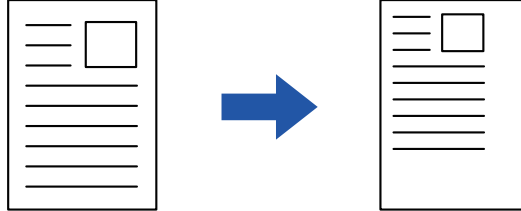
- (1) Select [Layout].
- (2) Enable [Reverse Page Orientation].
In macOS 12 and earlier, select the [Reverse Page Orientation] checkbox so that appears.



ENLARGING/REDUCING THE PRINT IMAGE (ZOOM SETTING/ENLARGE OR REDUCE)

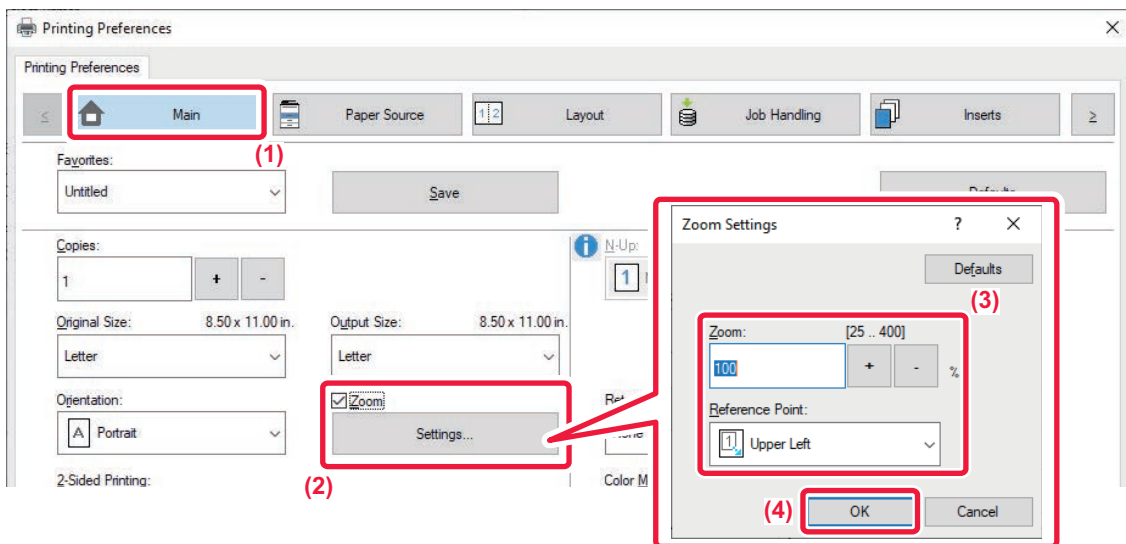
This function enlarges or reduces the image to a selected percentage.

This allows you to enlarge a small image or add margins to the paper by slightly reducing an image.



When using the PS printer driver (Windows), you can set the width and length percentages separately to change the proportions of the image.

Windows



(1) Click the [Main] tab.

(2) Click the [Zoom] checkbox so that appears, and click the [Settings] button.

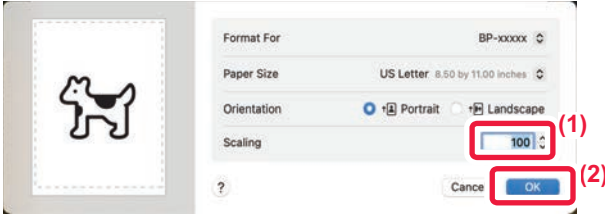
(3) Enter the percentage.

By clicking the button, you can specify the value in increments of 1%. In addition, select [Upper Left] or [Center] for the base point on the paper.

(4) Click the [OK] button.



macOS



- (1) Select [Page Setup] from the [File] menu and enter the ratio (%).
- (2) Click the [OK] button.



ADJUST THE LINE THICKNESS (WIDTH)

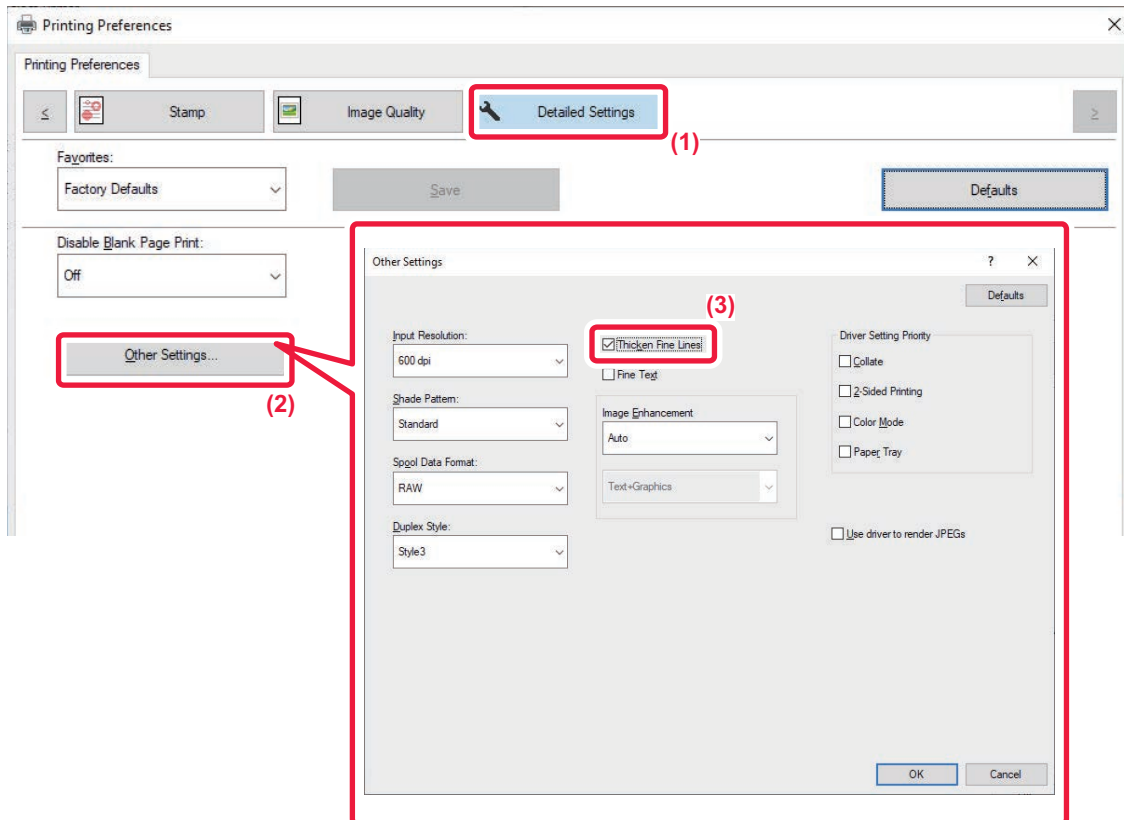
Thickening fine lines in Excel

When fine border lines in Excel do not print correctly, you can make the lines thicker.



- This function is available in a Windows environment.
- This function can be used when the PCL6 printer driver is used.
- Normally this setting is not necessary.

Windows



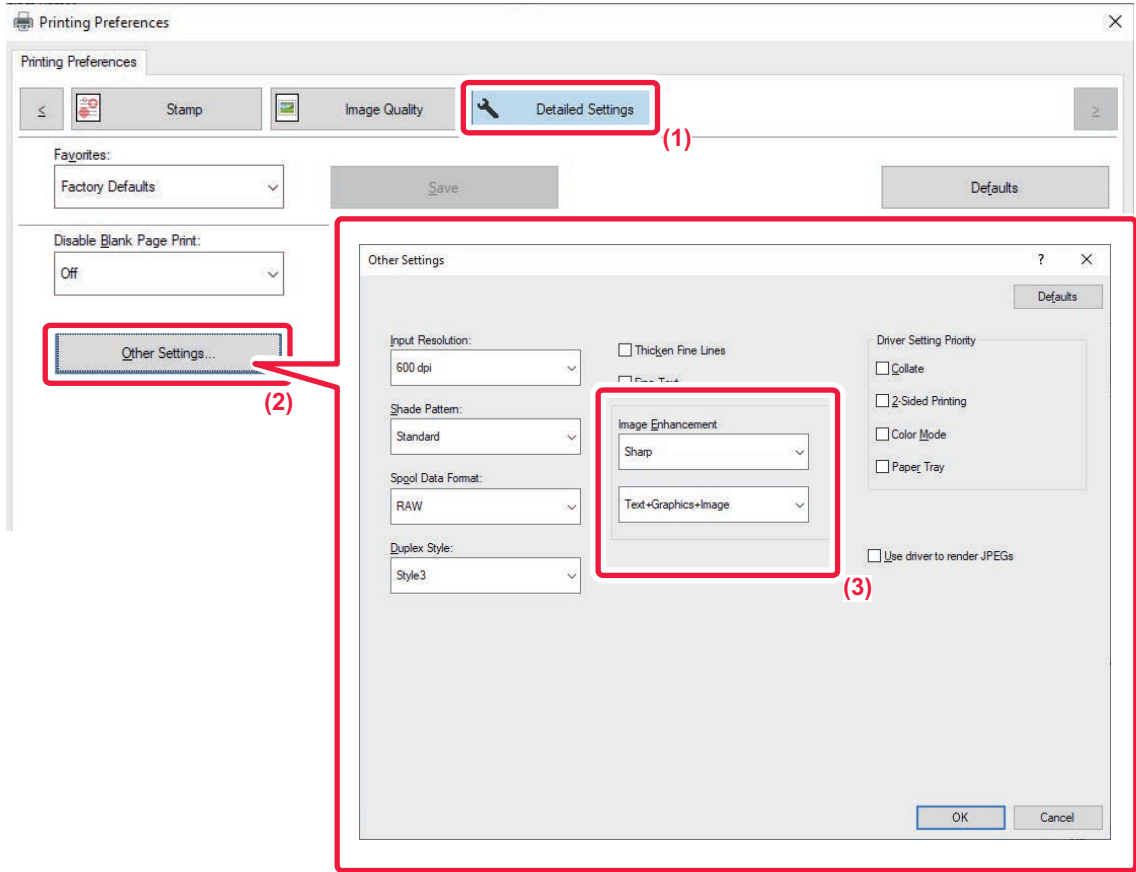
- (1) Click the [Detailed Settings] tab.
- (2) Click the [Other Settings] button.
- (3) Select the [Thicken Fine Lines] checkbox ().



Image Enhancement

Image enhancement can be used to adjust the thickness of text and lines.

Windows

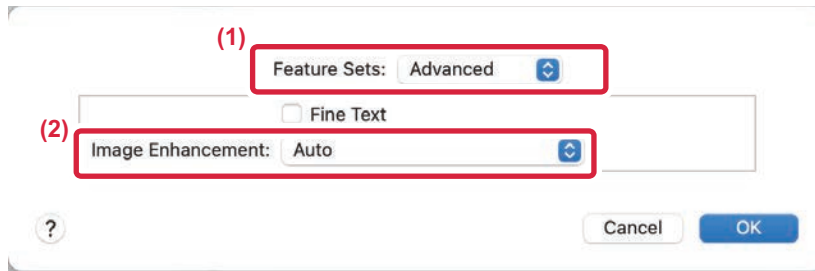


- (1) Click the [Detailed Settings] tab.
- (2) Click the [Other Settings] button.
- (3) Specify the settings.

Item		Description	
Image Enhancement	Auto	You can make the edges of text and graphics smoother or sharper. Auto: Perform optimal image enhancement. Off: No image enhancement is applied. Sharp: Image enhancement is applied sharply.	
	Off		
	Sharp		Text
			Text+Graphics+Image



macOS



(1) Select [Printer Features] from the "Printer Options", and then select [Advanced].

In macOS 12 and earlier, select [Printer Features] and then select [Advanced].

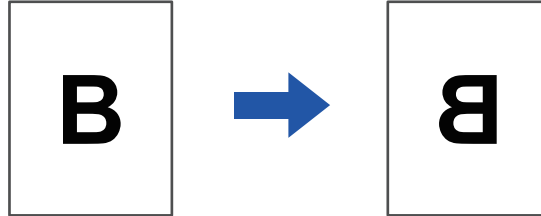
(2) Specify the settings.



PRINT A MIRROR-IMAGE (MIRROR-IMAGE REVERSE/VISUAL EFFECTS)

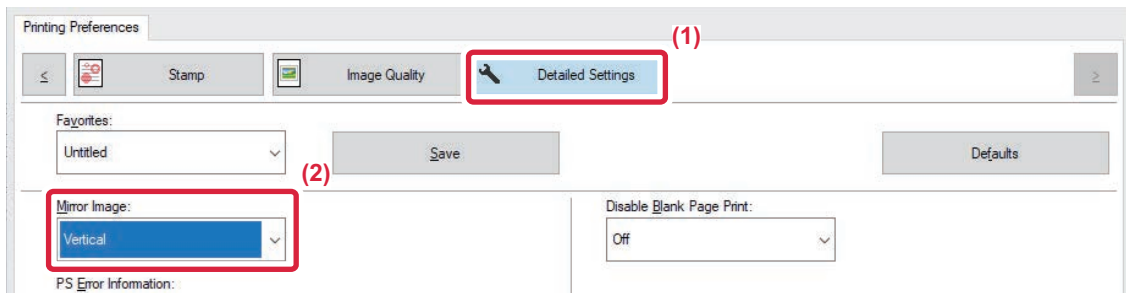
The image is reversed to create a mirror image.

This function is conveniently used to print a design for a woodblock print or other printing medium.



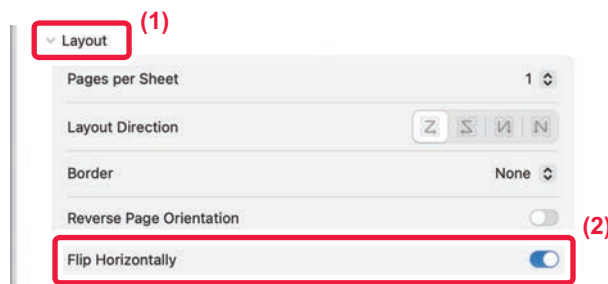
In a Windows environment, this function is only available when using the PS printer driver.

Windows



- (1) Click the [Detailed Settings] tab.
- (2) If you wish to reverse the image horizontally, select [Horizontal]. If you wish to reverse the image vertically, select [Vertical].

macOS



- (1) Select [Layout].
- (2) Enable the [Flip Horizontally].
In macOS 12 and earlier, select the [Flip Horizontally] checkbox ().



COLOR MODE ADJUSTING FUNCTION

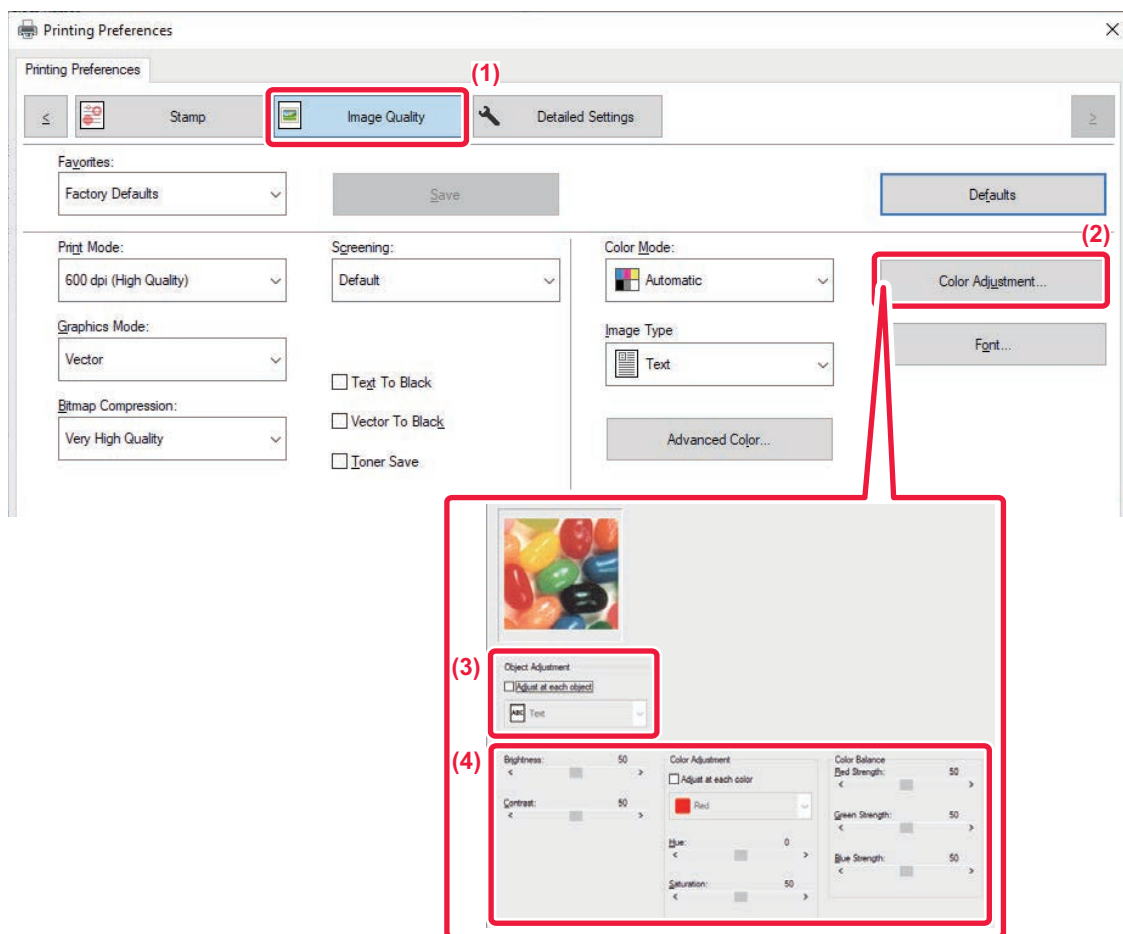
ADJUST THE BRIGHTNESS AND CONTRAST OF THE IMAGE (COLOR ADJUSTMENT/RGB ADJUSTMENT)

This function adjusts the brightness and contrast in the print settings when a photo or other image is printed. This function makes simple corrections even if image editing software is not installed on your computer.



This function is available in a Windows environment.

Windows



(1) Click the [Image Quality] tab.

(2) Click the [Color Adjustment] button.

When using the PS printer driver, click the [RGB Adjustment] button. Proceed to step (4).

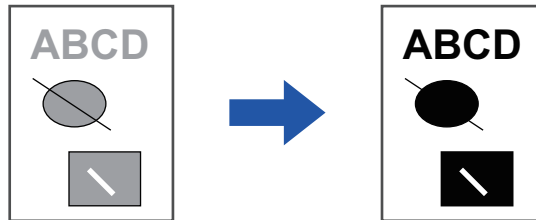
(3) To adjust objects (text, graphics, photos) individually, select the [Adjust at each object] checkbox () and select the object.

(4) Drag the slide bar or click buttons to adjust the image.



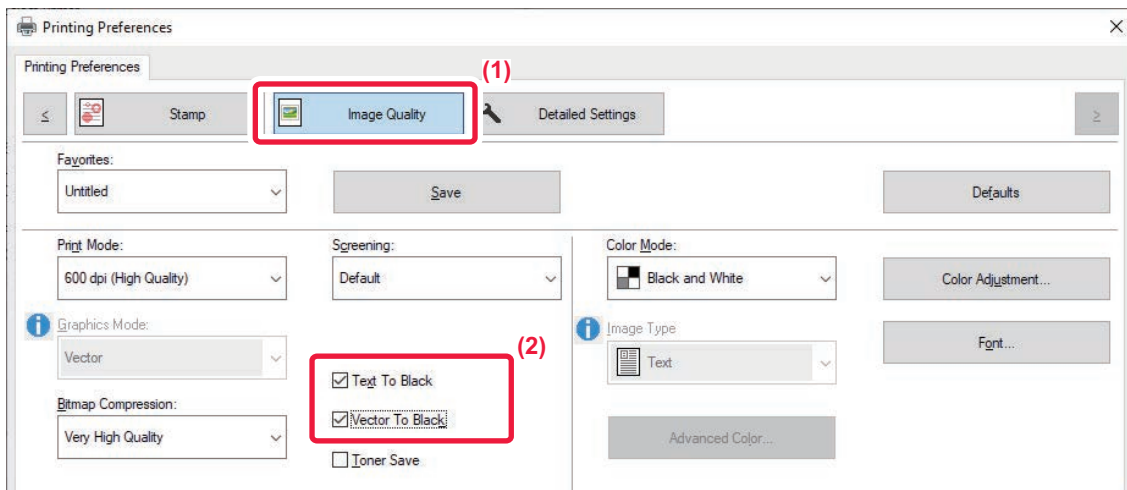
PRINTING FAINT TEXT AND LINES IN BLACK (TEXT TO BLACK/VECTOR TO BLACK)

When printing a color image in grayscale, text and lines that are drawn in faint colors are printed in black. This function allows you to bring out color text and lines that are faint and difficult to see when printed in grayscale.



- Raster data such as bitmap images cannot be adjusted.
- This function is available in a Windows environment.

Windows



- (1) Click the [Image Quality] tab.
- (2) Select the [Text To Black] checkbox and/or the [Vector To Black] checkbox so that appears.
 - When [Text To Black] is selected, all text other than white text is printed in black.
 - When [Vector To Black] is selected, all vector graphics other than white lines and areas are printed in black.



SELECTING COLOR SETTINGS TO MATCH THE IMAGE TYPE (ADVANCED COLOR SETTINGS)

Preset color settings are available in the machine's printer driver for various uses. These enable printing using the most suitable color settings for the color image type.

Advanced color settings, such as the color management settings and the screening setting for adjusting the color tone expression, are also available for meeting the needs of color image printing.

The following color management settings are available.

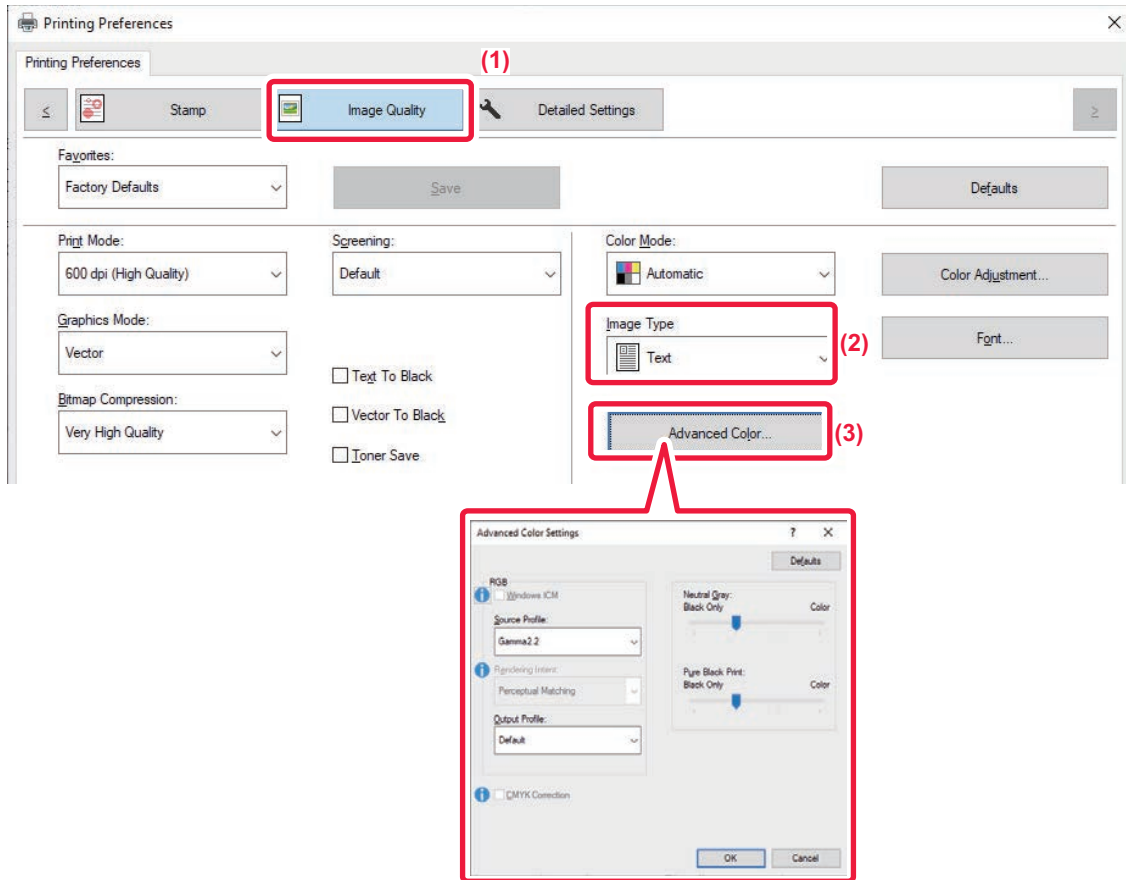
Windows ICM	Color management method in a Windows environment
ColorSync	Color management method in a macOS environment
Source Profile	Select a source color profile of color matching.
Rendering Intent	The selections below provide the ability to modify color image processing to suit specific preferences. (Color matching method: Method of color converting RGB colors on the display, etc. into CMYK colors in the printer)
Output Profile	Select a color profile for the image to be printed
CMYK Correction* ¹	Correct the image to obtain the optimum printing result when printing a CMYK image.
Screening	Select the screening to modify the image to suit specific preferences, according to the appropriate image processing method.
Neutral Gray	Select a creating method of neutral gray.
Pure Black Print	Select whether you want to print black data area with only black toner.
Black Overprint* ²	Prevents whitening of the outline of black text.
CMYK Simulation* ²	Adjusts the colors to simulate printing that would be obtained with the process colors used in printing presses.
Simulation Profile* ²	Select the simulation target.

*1 Can only be used when using the PCL6 printer driver.

*2 Can only be used when using the PS printer driver (Windows/macOS).



Windows



(1) Click the [Image Quality] tab.

(2) Select [Image Type].

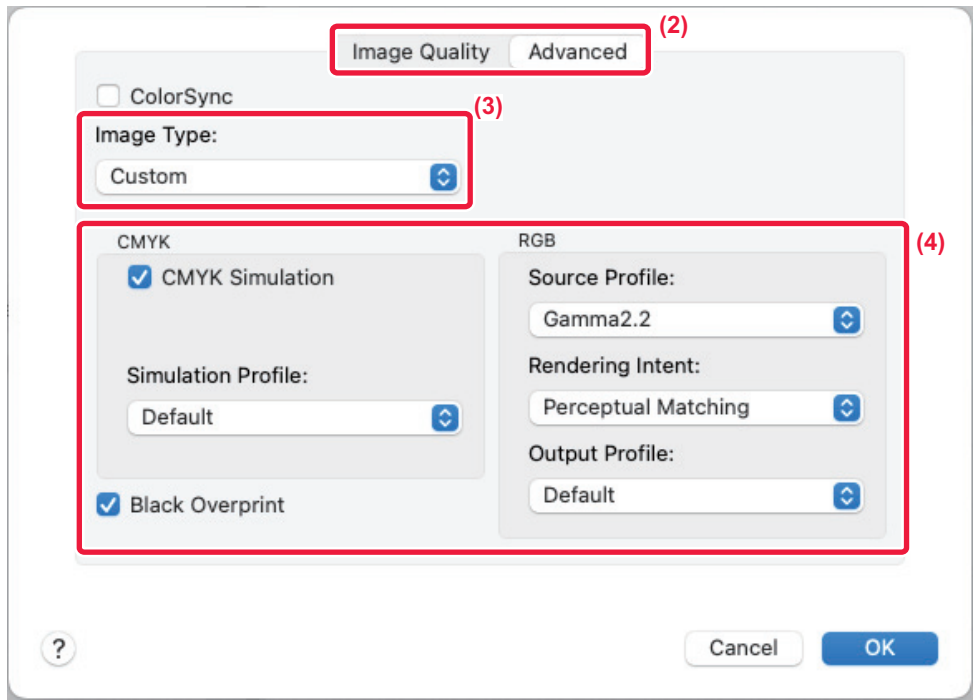
- Text: Data consisting mostly of text
- Presentation: Data with many photos or illustrations
- Photo: Photo data or data that uses photos
- CAD: Engineering drawing data
- Scan: Data scanned by a scanner
- Colorimetric: Data to be printed in colors as viewed on the screen
- Custom: Data to be printed with special settings

(3) Click the [Advanced Color] button and specify the settings.

- To configure color management using the Windows OS ICM, set "Image Type" to [Custom] in step (2). Then, click the [Windows ICM] checkbox so that the checkmark appears.
- To configure "Source Profile" and other detailed color management tasks, select the desired settings from the menus.



macOS



(1) Select [Image Quality] from the "Printer Options".

In macOS 12 and earlier, select [Image Quality].

(2) In macOS 12 and earlier, Click the [Advanced] tab.

To use the macOS color management function, select the [ColorSync] checkbox so that the checkmark appears. In this case, you cannot select "Image Type".

(3) Select [Image Type].

To configure color management settings, select the desired settings from the menus. To select a "CMYK Simulation" setting, select [Custom] in "Image Type", select the [CMYK Simulation] checkbox (), and then select the desired setting.

- Text: Data consisting mostly of text
- Presentation: Data with many photos or illustrations
- Photo: Photo data or data that uses photos
- CAD: Engineering drawing data
- Scan: Data scanned by a scanner
- Colorimetric: Data to be printed in colors as viewed on the screen
- Custom: Data to be printed with special settings

(4) Specify the settings.

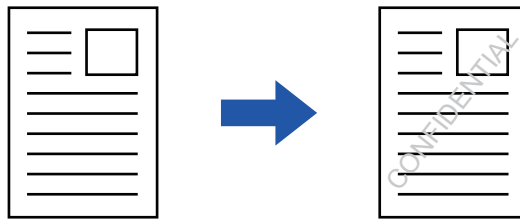


FUNCTIONS TO COMBINE TEXT AND IMAGES

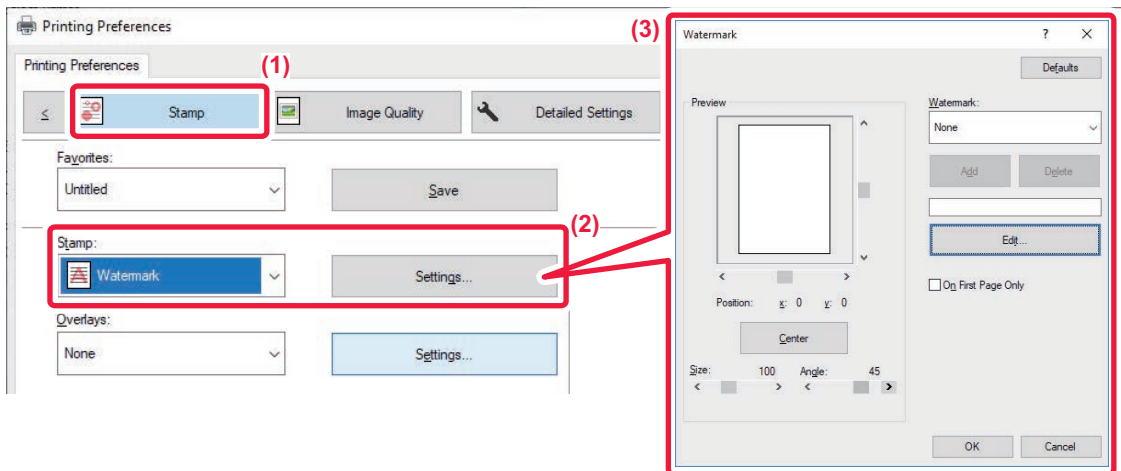
ADDING A WATERMARK TO PRINTED PAGES (WATERMARK)

This function adds faint shadow-like text as a watermark in the background of the printed image. The size and angle of the watermark text can be adjusted.

The watermark text can be selected from the previously registered text in the list. When necessary, you can enter text to create an original watermark.



Windows



- (1) Click the [Stamp] tab.
- (2) Select [Watermark] from "Stamp" and click the [Settings] button.
- (3) Select the watermark to be used and click the [OK] button.

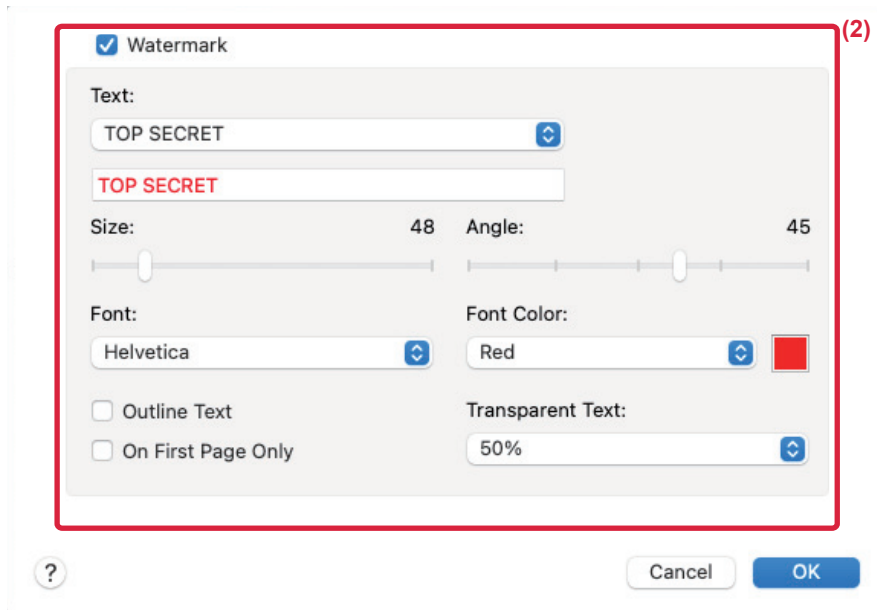
Click the [Edit] button to edit the font color and select other detailed settings.



If you want to create a new watermark, enter the text of the watermark in the text box and click the [Add] button.




macOS



(1) Select [Watermarks] from the "Printer Options".

In macOS 12 and earlier, select [Watermarks].

(2) Click the [Watermark] checkbox and configure watermark settings.

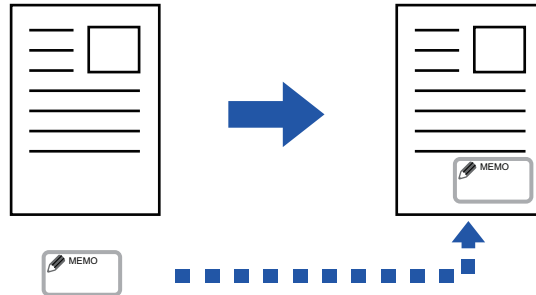
- Configure detailed watermark settings such as selection of the text.
- Adjust the size and angle of the text by dragging the slide bar .



PRINTING AN IMAGE OVER THE PRINT DATA (IMAGE STAMP)

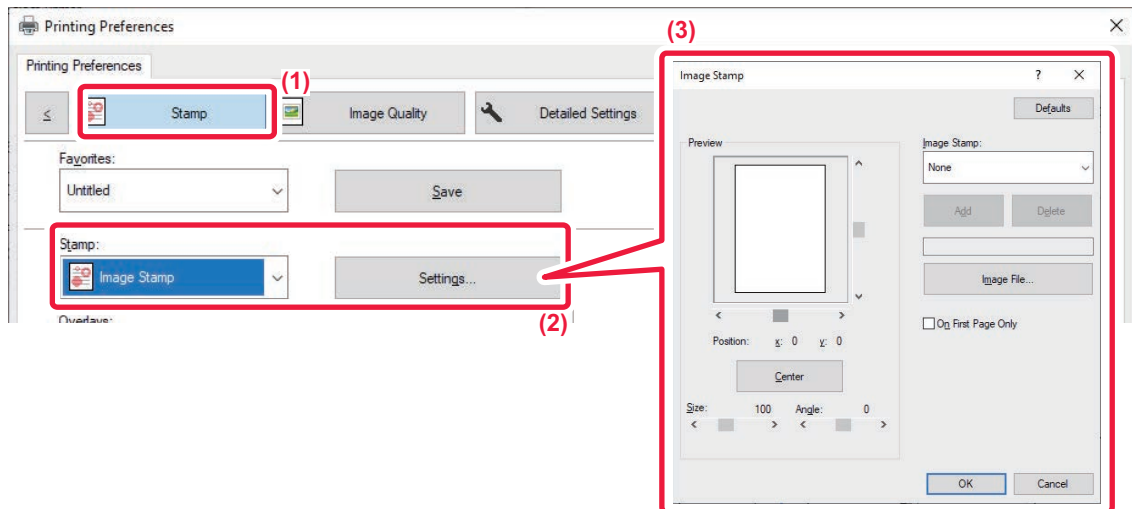
This function prints a bitmap or JPEG image stored on your PC over the print data.

This function prints a frequently used image or an icon of your own creation as if it is stamped on the print data. The size, position, and angle of the image can be adjusted.



This function is available in a Windows environment.

Windows



(1) Click the [Stamp] tab.

(2) Select [Image Stamp] from "Stamp" and click the [Settings] button.

(3) Select the image stamp to be used, and click the [OK] button.

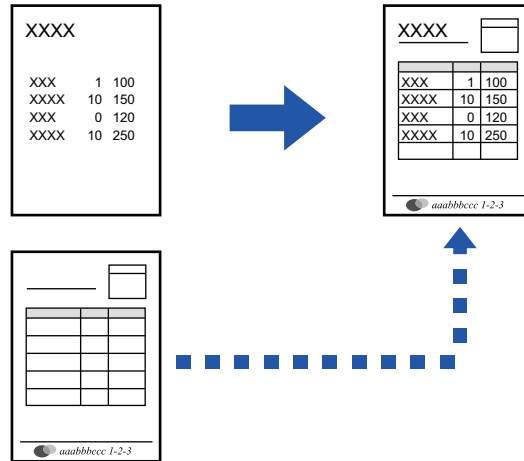
- If an image stamp has already been stored, it can be selected from the menu.
- If you have not stored an image stamp, click the [Image File], select the file you wish to use for the image stamp, and click the [Add] button.



OVERLAY A FIXED FORM ON THE PRINT DATA (OVERLAYS)

This function overlays data on a fixed form you have prepared.

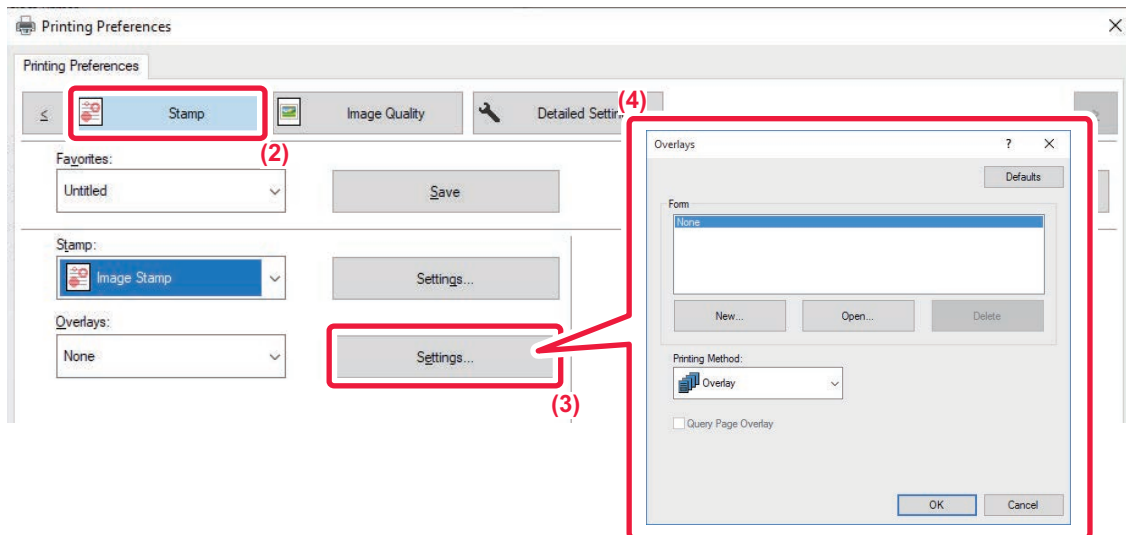
By creating table rulings or a decorative frame in an application different from that of the text file and registering the data as an overlay file, an attractive print result can be easily obtained without the need for complex manipulations.



This function is available in a Windows environment.

Windows

Creating an overlay file



- (1) Open the driver properties window from the application that is used for creating overlay data.
- (2) Click the [Stamp] tab.
- (3) Click the [Settings] button.



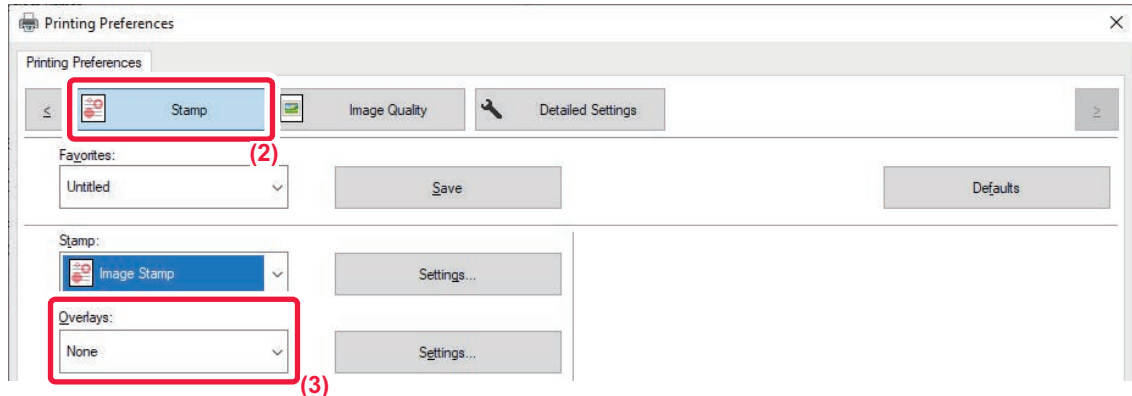
(4) Click the [New] button and specify the name and folder to be used for the overlay file that you wish to create.

The file will be created when the settings are completed and printing is started.



- When printing is started, a confirmation message will appear. The overlay file will not be created until the [Yes] button is clicked.
- When you click the [Open] button, the existing overlay file is registered.

Printing with an overlay file



(1) Open the driver properties window from the application that is used for printing with an overlay file.

(2) Click the [Stamp] tab.

(3) Select an overlay file.

A previously created or stored overlay file can be selected from the menu.

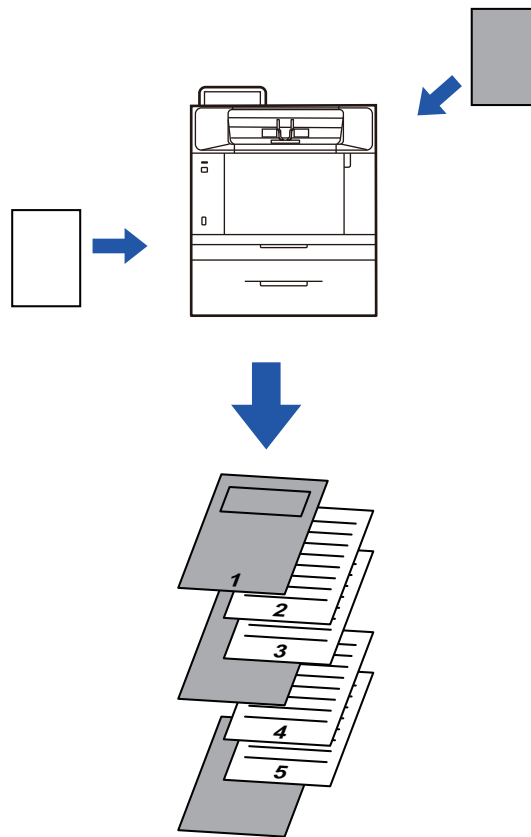


PRINT FUNCTIONS FOR SPECIAL PURPOSES

PRINTING SPECIFIC PAGES ON DIFFERENT PAPER (COVER PAGE)

In a Windows environment

The front covers of a document are printed on paper that is different from the other pages. Use this function when you wish to print the front covers on heavy paper.

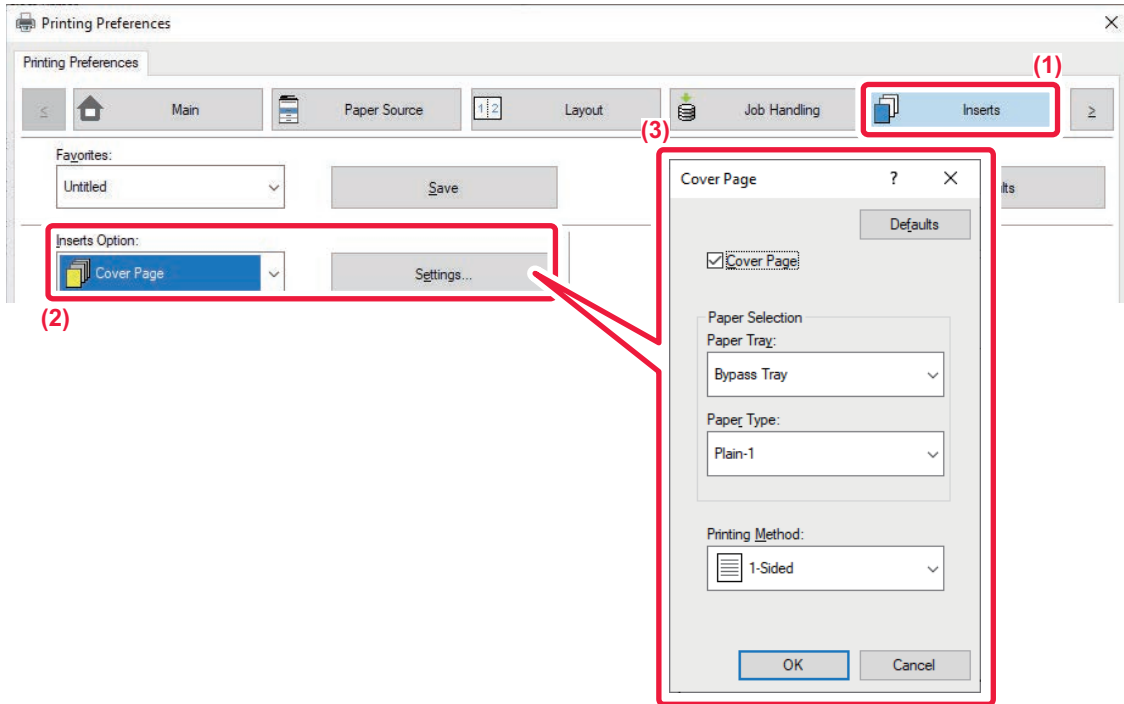


In a macOS environment

The front covers of a document are printed on paper that is different from the other pages. Use this function when you wish to print the front covers on heavy paper.



Windows



(1) Click the [Inserts] tab.

(2) Select [Cover] from [Inserts Option], and click the [Settings] button.

(3) Select the cover page settings.

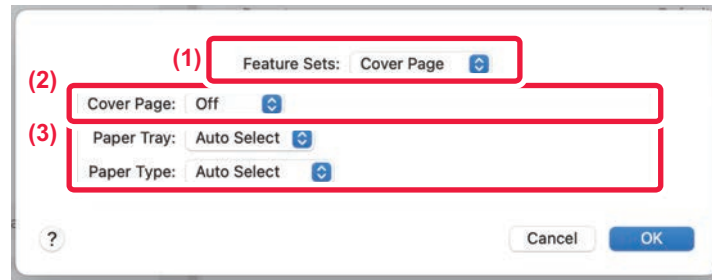
Click the "Cover Page" checkbox, select the tray and paper type to be used for the cover, and set the print method.



When [Bypass Tray] is selected in "Paper Tray", be sure to select the "Paper Type" and load that type of paper in the bypass tray.



macOS



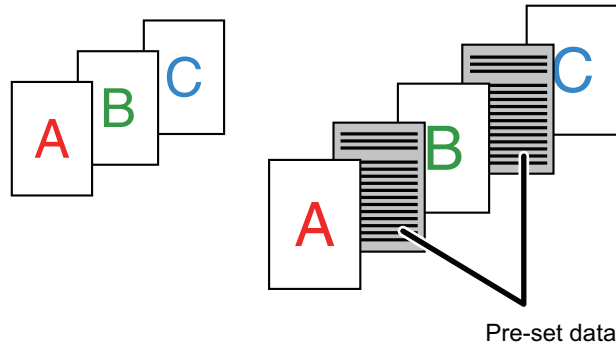
- (1) Select [Printer Features] from the "Printer Options", and then select [Cover Page].**
In macOS 12 and earlier, select [Printer Features] and then select [Cover Page].
- (2) Select the print settings for the "Cover Page".**
- (3) Select the cover insertion settings.**
Select the paper tray and paper type for the front covers.



INSERT PRESET DATA BEFORE OR AFTER EACH PAGE (PAGE INTERLEAVE)

This function inserts a preset data item into every page during printing.

You can easily create documents with opened page spread that is made up of text on the left-hand page and a memo space on the right-hand page.



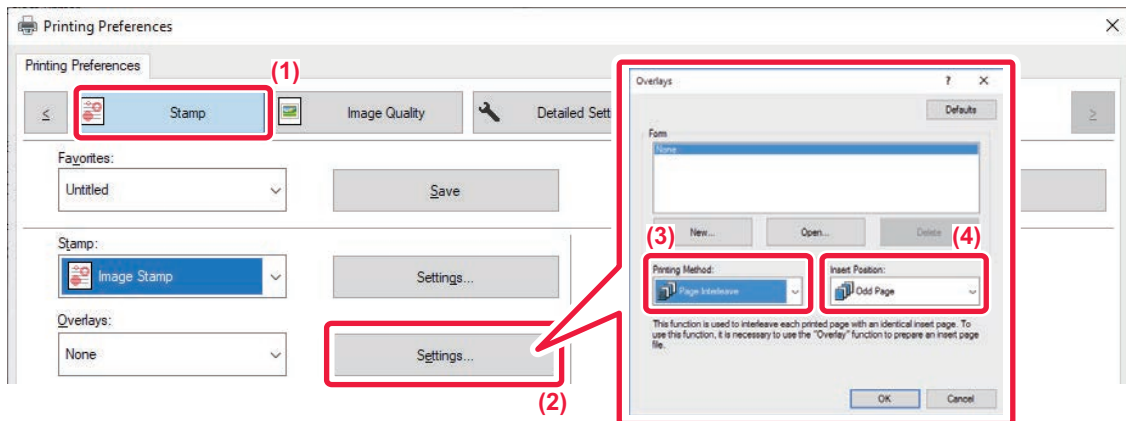
- This function is available in a Windows environment.
- This function can be used when the PCL6 printer driver is used.



You have to create page data to be inserted in advance.

For the procedure for creating page data, see "[Creating an overlay file \(page 3-53\)](#)" in "[OVERLAY A FIXED FORM ON THE PRINT DATA \(OVERLAYS\) \(page 3-53\)](#)".

Windows



- (1) Click the [Stamp] tab.
- (2) Click the [Settings] button.
- (3) Select [Page Interleave] from the "Printing Method".
- (4) Set the overlay data to be inserted and set its insertion position.



CONVENIENT PRINTER FUNCTIONS

SAVING AND USING PRINT FILES (RETENTION)

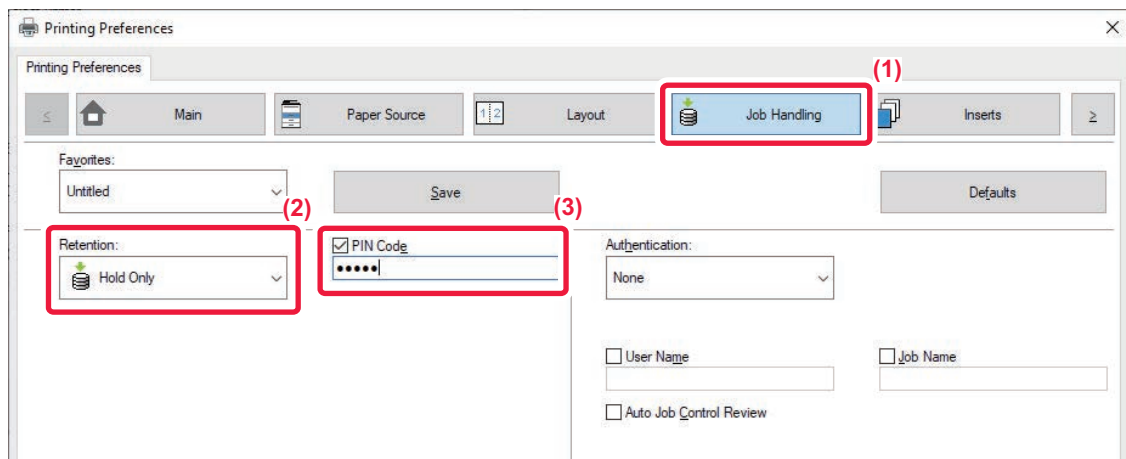
This function stores a print job as a file on the machine's memory, allowing the job to be printed from the touch panel when needed. Setting a password (5 to 8 digit PIN) when printing from a computer enhances the confidentiality of stored data.

When a password is set, the password must be entered when printing stored data from the machine.



Print data exceeding 1 GB cannot be saved.

Windows

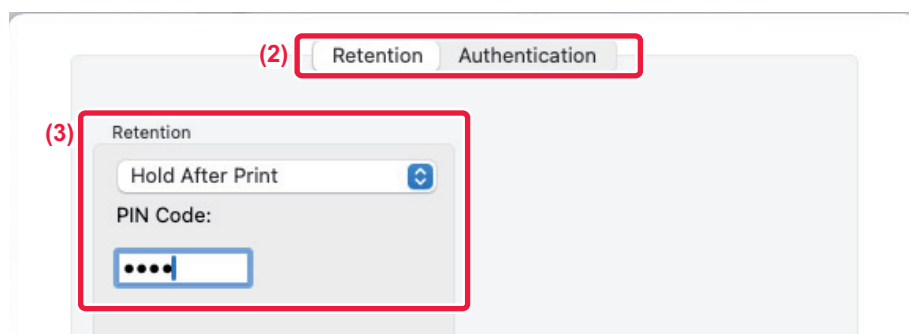


(1) Click the [Job Handling] tab.

(2) Select "Retention".

To enter a password (5 to 8-digit number), click the [PIN Code] checkbox so that the checkmark appears.

macOS



(1) Select [Job Handling] from the "Printer Options".

In macOS 12 and earlier, select [Job Handling].

(2) Select [Retention].

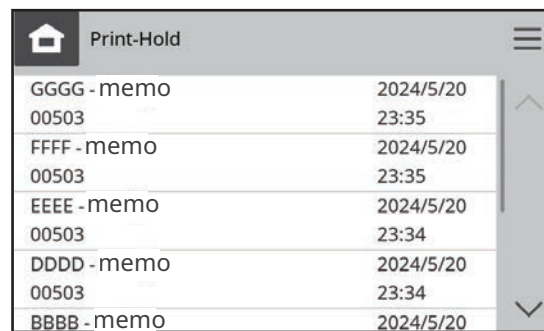
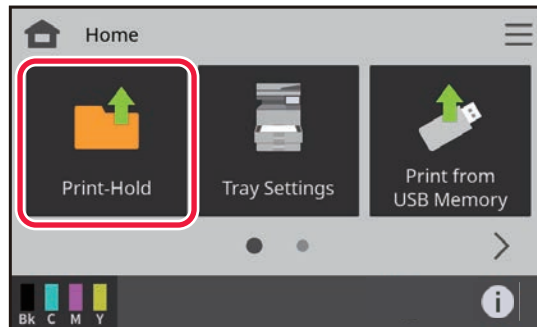
(3) Select how to save the print data in "Retention".

If necessary, you can enter a password (5 to 8-digit number).



Printing retained data

When retention is performed, the touch panel will display the following.



Tap the data you want to print, and a confirmation screen for printing will appear. To print, tap the "Print" button.

To delete the data after printing, tap the "Print and Delete the Data" button.

To delete the data without printing, tap the "Delete" button.

For data for which a password has been set, the password entry screen will appear before the print confirmation screen.



PRINTING WITHOUT THE PRINTER DRIVER

EXTENSION OF PRINTABLE FILES

When you do not have the printer driver installed on your PC, or when the application used to open a file that you wish to print is not available, you can print directly to the machine without using the printer driver.

The file types (and corresponding extensions) that can be printed directly are shown below.

File Type	TIFF	JPEG	PNG	PCL	PS	PDF
Extension	tiff, tif	jpeg, jpg, jpe, jfif	png	pcl, prn, txt	ps, prn	pdf



- Even if the print result is black and white, the following types of print jobs will be counted as 4-color (Y (Yellow), M (Magenta), C (Cyan), and Bk (Black)) print jobs. When you want such jobs to be counted as black and white jobs, select the black and white printing option.
 - When the data is created as color data.
 - When the application treats the data as color data even though the data is black and white.
 - When an image is hidden under a black and white image.
- Some files may not print correctly even if shown in the above table.



DIRECTLY PRINTING A FILE IN USB MEMORY

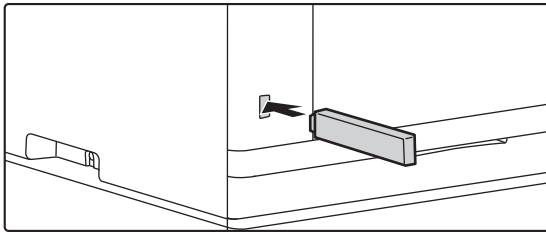
Files in a USB memory device connected to the machine are printed from the operation panel of the machine without using the printer driver.

When the printer driver of the machine is not installed on your PC, you can copy a file into a commercially available USB memory device and connect the device to the machine to print the file directly.



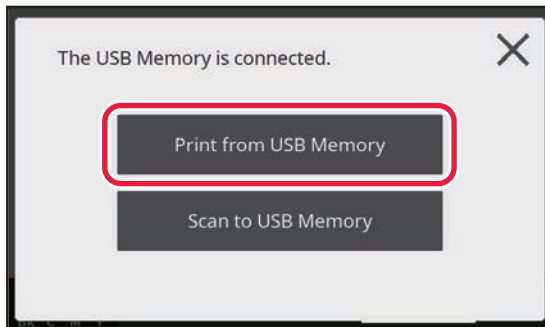
Use FAT32, NTFS or exFAT format for USB memory device.

1



Connect the USB memory device to the machine.

2





When the screen for selecting the action appears, tap [Print from USB Memory].

If the screen does not appear, tap the "Print from USB Memory" key.




3

Tap the key of the file that you wish to print, and tap the [Choose Print Settings] key.

- The  icon appears to the left of keys of files that can be printed.
- The  icon is displayed to the left of keys of folders in the USB memory device. To display a folder or a file in a folder, tap this key.



- A total of 100 keys of files and folders can be displayed in one level.
- Tap  to move up one folder level.
- Tap the menu icon and then tap the [Sort Method Setting] key to change the sort order of files and folders displayed on the screen. Tap the [File Name (Ascending Order)] key or the [File Name (Descending Order)] key that appears to change the ascending or descending order.

4

Select the print conditions.

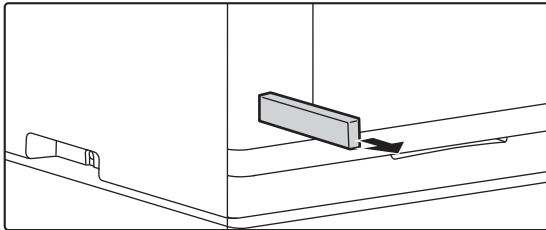
If you selected a PS or PCL file that includes print conditions in step 3, the print conditions in the file will be given priority.

5

Tap the [Start] key.

Printing begins after the selected file is transferred.

6



Remove the USB memory device from the machine.



DIRECTLY PRINTING FROM A COMPUTER

FTP PRINT

You can print a file from your PC by simply dragging and dropping the file onto the FTP server of the machine.

Performing FTP print

Enter the IP address of this machine in the server name field of your FTP client application to connect to this machine. When you upload the file you want to print in the "lp" folder on the FTP server of this machine, printing will start automatically.



- If you selected a PS or PCL file that includes print conditions, the print conditions in the file will be given priority.
- When user authentication is enabled in the settings from the operation panel, the print function may be restricted. For more information, ask your administrator.



APPENDIX

PRINTER DRIVER SPECIFICATIONS LIST

For information on the setting items, refer to printer driver Help.

[PRINTER DRIVER SETTINGS SCREEN / REFERRING TO HELP \(page 3-5\)](#)



The specifications of each function in Windows PPD and macOS PS vary depending on the operating system version and the application.

Main

Function	PCL6	PS	Windows PPD	macOS PS
Copies	1-999	1-999	1-9999	1-9999
Collate	Yes	Yes	Yes	Yes
Original Size	Yes	Yes	Yes	Yes
Output Size	Yes	Yes	No	No
Orientation	Yes	Yes	Yes	Yes
Adjust to Paper Size	No	No	No	Yes
Zoom	Yes	Yes	Yes	Yes
2-Sided	Yes	Yes	Yes	Yes
N-Up	2, 4, 6, 8, 9, 16	2, 4, 6, 8, 9, 16	2, 4, 6, 9, 16	2, 4, 6, 9, 16
Retention	Yes	Yes	No	Yes
Color Mode	Yes	Yes	Yes	Yes



Zoom (PCL6/Windows PPD/macOS PS): The horizontal and vertical proportion cannot be set separately.

Paper Source

Function	PCL6	PS	Windows PPD	macOS PS
Output Size	Yes	Yes	No	No
Paper Tray	Yes	Yes	Yes	Yes
Paper Type	Yes	Yes	Yes	Yes
Tray Status	Yes	Yes	No	No

Layout

Function	PCL6	PS	Windows PPD	macOS PS
2-Sided	Yes	Yes	Yes	Yes
Booklet	Yes	Yes	Yes	Yes



Function		PCL6	PS	Windows PPD	macOS PS
N-Up	Page No.	2, 4, 6, 8, 9, 16	2, 4, 6, 8, 9, 16	2, 4, 6, 9,16	2, 4, 6, 9,16
	Order	Yes	Yes	Yes	Yes
	Border	Yes	Yes	Yes	Yes
	N-Up with cover	Yes	No	No	No
	100% N-Up	Yes	Yes	No	No
Poster Printing		Yes	Yes	No	No
Print Position	Margin Shift	0 inch to 1.2 inch (0mm to 30mm)	0 inch to 1.2 inch (0mm to 30mm)	0 inch to 1.2 inch (0mm to 30mm)	0 inch to 1.2 inch (0mm to 30mm)
	Custom	Yes	No	No	No

Job Handling

Function	PCL6	PS	Windows PPD	macOS PS
Notify Job End	Yes	Yes	No	No
Authentication	Yes	Yes	No	Yes

Inserts

Function	PCL6	PS	Windows PPD	macOS PS
Cover Page	Yes	Yes	Yes	Yes

Stamp

Function	PCL6	PS	Windows PPD	macOS PS
Watermark	Yes	Yes	Yes	Yes
Image Stamp	Yes	Yes	No	No
Overlay	Yes	Yes	No	No

Image Quality

Function	PCL6	PS	Windows PPD	macOS PS
Print Mode	Yes	Yes	Yes	Yes
Graphics Mode	Yes	No	No	No
Bitmap Compression	Yes	Yes	No	No
Screening	Yes	Yes	Yes	Yes
Text To Black	Yes	Yes	No	No
Vector To Black	Yes	Yes	No	No
Toner Save	Yes	Yes	Yes	Yes
Color Mode	Yes	Yes	Yes	Yes
Image Type	Yes	Yes	Yes	Yes
Advanced Color	Yes	Yes	No	No
Color Adjustment	Yes	No	No	No
RGB Adjustment	No	Yes	No	No



Function	PCL6	PS	Windows PPD	macOS PS
Font	Yes	Yes	Yes	No



Toner Save: This setting may not operate in some applications and operating systems.

Detailed Settings

Function	PCL6	PS	Windows PPD	macOS PS
Mirror Image	No	Yes	Yes	Yes
PS Error Information	No	Yes	Yes	No
PS Pass-Through	No	Yes	No	No
Job Compression	No	Yes	No	No
Disable Blank Page Print	Yes	Yes	No	No
Other Settings				
• Input Resolution	Yes	Yes	No	No
• Shade Pattern	Yes	No	No	No
• Spool Data Format	Yes	Yes	No	No
• Duplex Style	Yes	Yes	No	No
• Use driver to render JPEGs	Yes	Yes	No	No
• Expand	No	No	No	No
• Thicken Fine Lines	Yes	No	No	No
• Fine Text	Yes	Yes	Yes	Yes
• Image Enhancement	Yes	Yes	Yes	Yes
• Driver Setting Priority	Yes	Yes	No	No



CONVENIENT USE OF THE MACHINE

USE ENVIRONMENTALLY FRIENDLY

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AUTO POWER SHUT-OFF MODE	4-3
AS SOON AS THE REMOTE JOB IS FINISHED, ENTER AUTO POWER SHUT OFF MODE	4-3
ECO FUSING	4-4
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USE ENVIRONMENTALLY FRIENDLY

ECO

ECO FUNCTIONS OF THE MACHINE

Mode Settings

The eco function settings are set in a batch. "Custom Mode" and "Eco Mode" are available. Setting values applied by each mode is as follows.

Eco mode	Setting value
Preheat Mode Setting	1min.
Auto Power Shut-Off Timer: Remote Job	Earliest
Auto Power Shut-Off Timer: Other Job	11 min.
Sleep Mode Power Level	Low Power
Eco Fusing Mode	Enabled

PREHEAT MODE

This mode lowers the temperature of the fusing unit and makes the machine wait in low power consumption state. Preheat mode will activate when the set duration of time elapses in waiting status without executing a job. Compared to Auto Power Shut-Off Mode, the amount of energy saved is less and the wakeup time is shorter. The touch panel goes off. The power indicator lights in blue when the machine is in preheat mode. The touch panel is cleared when it is tapped.

**To set preheat mode:**

From the operation panel, select [System Settings] → [Energy Save] → [Preheat Mode Setting]. (in the Web page, select [System Settings] → [Energy Save] → [Eco Setting] → [Preheat Mode Setting].)



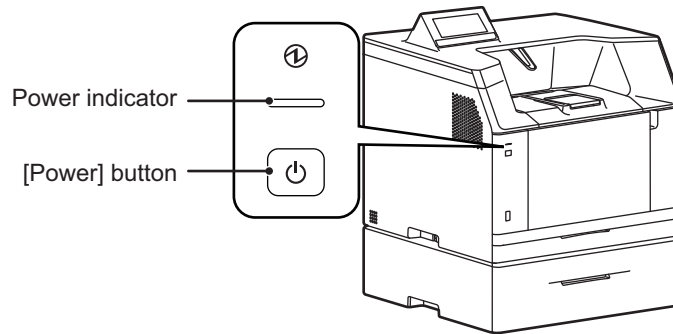
AUTO POWER SHUT-OFF MODE

This mode turns off the power to the operation panel and the fusing unit, and makes the machine wait in the lowest power consumption state.

Auto Power Shut-Off mode will activate when the set duration of time elapses in waiting status without executing a job. Compared to preheat mode, the power-saving rate is considerably higher but the wakeup time is longer.

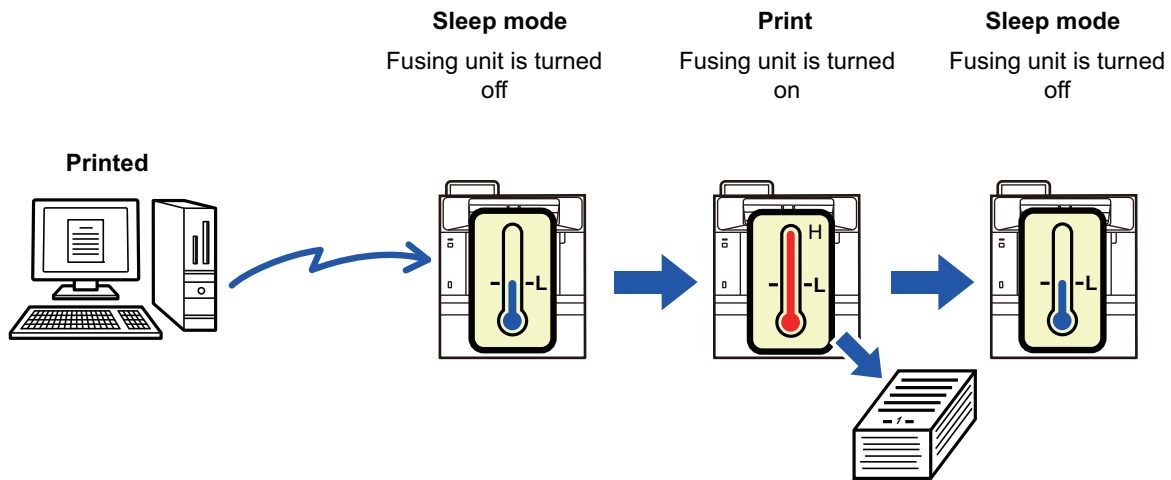
The power indicator blinks when the machine is in Auto Power Shut-Off mode.

This mode is cleared when print data is being received, or when the [Power] button is pressed while it is blinking.



AS SOON AS THE REMOTE JOB IS FINISHED, ENTER AUTO POWER SHUT OFF MODE

Printing in Auto Power Shut-Off Timer turns on the power, and then the machine returns to Auto Power Shut-Off Mode immediately after completing the print job.



To set "As soon as the remote job is finished, enter Auto power shut off mode.":

From the operation panel, select [System Settings] → [Energy Save] → [Auto power shut off mode] and enable "Earliest". (in the Web page, select [System Settings] → [Energy Save] → [Eco Setting] → [Auto power shut off mode] and enable "Earliest".)



Sleep Mode Power Level

Low Power: The machine switches to the power saving mode, but it takes some time to recover.
Fast Wake Up: Compared with Low Power, the power value rises by a certain degree, but it results in faster recovery.



To set Sleep Mode Power Level:

In the Web page, select [System Settings] → [Energy Save] → [Eco Setting] → [Sleep Mode Power Level].

ECO FUSING

This function allows the fusing unit of the machine to be operated with the fusing unit of the machine turned off during operations that do not require printing on the machine. This function reduces power consumption because the fusing unit of the machine can be operated with the machine's fusing unit turned off.

ECO FUSING SETTING

Set "Eco Fusing Setting" to , and select a mode or screen in which to enable Eco Fusing Setting.



To set Eco Fusing:

In the Web page → select [System Settings] → [Energy Save] → [Eco Fusing Setting] .



MANAGING THE USE OF THE MACHINE

USER AUTHENTICATION

User authentication restricts the use of the machine to users that have been registered. The functions that each user is allowed to use can be specified, allowing the machine to be customized to meet the needs of your workplace.

When the administrator of the machine has enabled user authentication, each user must log in to use the machine.

There are different types of user authentication, and each type has a different login method.

For more information, see the explanations of the login methods.

[AUTHENTICATION BY USER NUMBER \(page 4-5\)](#)

[AUTHENTICATION BY LOGIN NAME/PASSWORD \(page 4-7\)](#)

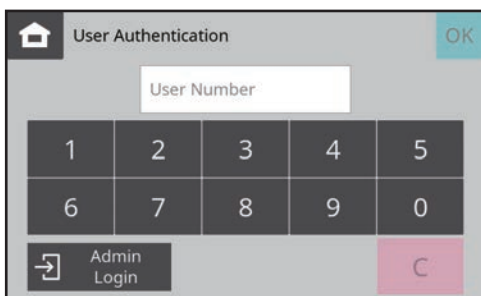
For the settings that are required for user authentication, refer to [USER CONTROL \(page 4-9\)](#).

AUTHENTICATION BY USER NUMBER

The following procedure is used to log in using a user number received from the administrator of the machine.

When starting the machine, the login screen appears.

When controlled by user number



- If "A Warning when Login Fails" is enabled in the system settings, the operation panel will be locked for five minutes if an incorrect user number is entered three times in a row.
- Contact the machine administrator to check the user number assigned for you.

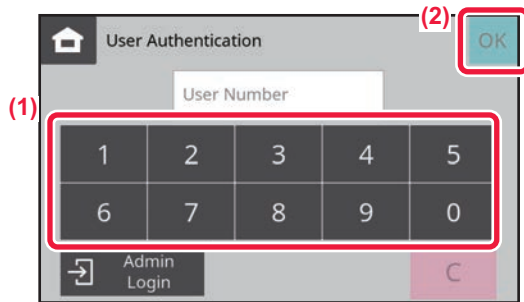
1

Enter your user number (5 to 8 digits) using the numeric keys.

Each entered digit will be displayed as "*".



2



Tap the [OK] key.

If the entered user number is authenticated, the number of remaining pages that the user can print is displayed. When a limitation is set for the number of pages that a user can use, the use count for the user that has logged in is displayed.



- **To limit the number of pages that a user can use:**

In the Web page, select [User Control] → [Access Control Settings] → [Pages Limit Group].

- **To hide the number of pages that can be used after login:**

In the Web page, disable [System Settings] → [Authentication Settings] → [Default Settings] → [Display Usage Status after Login].

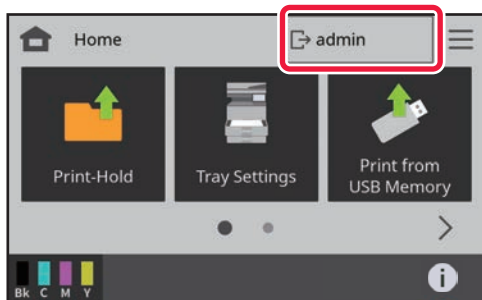
- **To change the message display time:**

From the operation panel, select [System Settings] → [Common Settings] → [Operation Settings] → [Message Time Setting].



When the user number is an 8-digit number, this step is not necessary. Login takes place automatically after the user number is entered.

3



When you have finished using the machine and are ready to log out, tap [Logout].

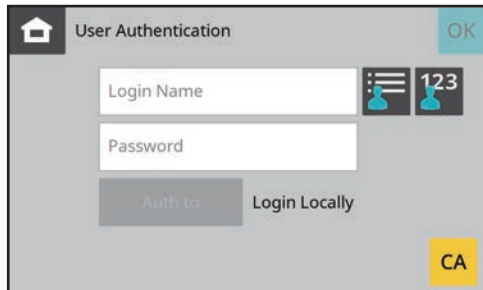


AUTHENTICATION BY LOGIN NAME/PASSWORD

This method enables users to log in using a login name and password received from the administrator of the machine or the administrator of the LDAP server.

When starting the machine, the login screen appears.

When controlled by login name and password



- **To set [A Warning when Login Fails]:**

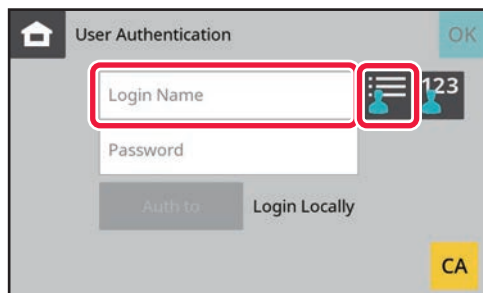
In the Web page, select [System Settings] → [Authentication Settings] → [A Warning when Login Fails].

- **To store a user name:**

In the Web page, select [User Control] → [User Settings] → [User List].

Also register detailed information such as the login name, user number, and password. Ask the administrator of the machine for the information that you need to use the machine.

1



Enter the login name.

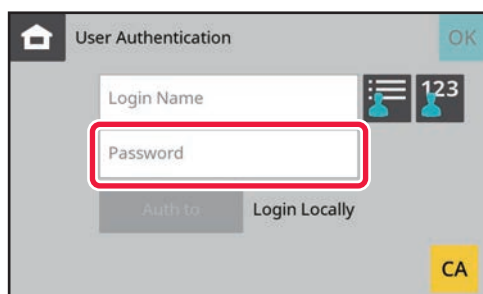
Entering using the soft keyboard

If user name registration has not been performed in setting mode, a user only using LDAP authentication should tap the [Login Name] text box and enter the login name using the soft keyboard.

Selecting from a list

Tap the [Select from List] key and select a user name from the User List screen.

2



Enter the password.

Enter the from the soft keyboard.

Each entered character will be displayed as "*". After entering, tap the [OK] key.

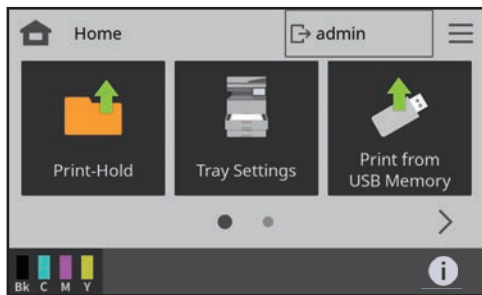
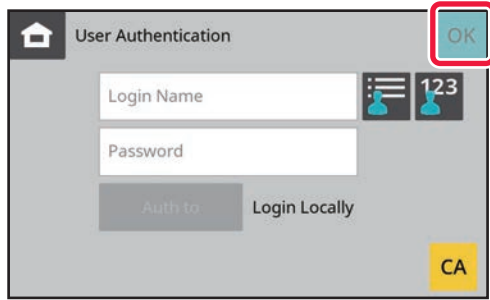


- **To have the user name and password registered:**

In the Web page, select [User Control] → [User Settings] → [User List].



3



Tap the [OK] key.

If the entered login name and password are authenticated, the number of remaining pages that the user can print is displayed.



When a limitation is set for the number of pages that a user can use, the use count for the user that has logged in is displayed.



- **To limit the number of pages that a user can use:**

In the Web page, select [User Control] → [Access Control Settings] → [Pages Limit Group].

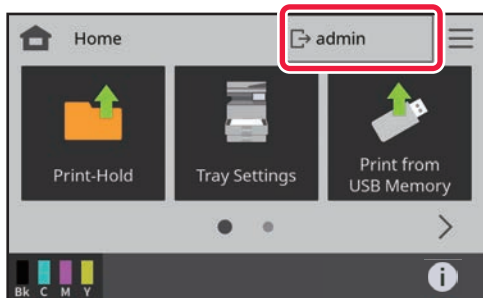
- **To hide the number of pages that can be used after login:**

In the Web page, disable [System Settings] → [Authentication Settings] → [Default Settings] → [Display Usage Status after Login].

- **To change the message display time:**

From the operation panel, select [System Settings] → [Common Settings] → [Operation Settings] → [Message Time Setting].

4



When you have finished using the machine and are ready to log out, tap [Logout].



USER CONTROL





You can perform user management such as registering login users and specifying the user authentication method. In [User Control] of the Web page and [System Settings] of [Authentication Settings] in the Web page.

User Control allows you to register and manage the users who use the machine.

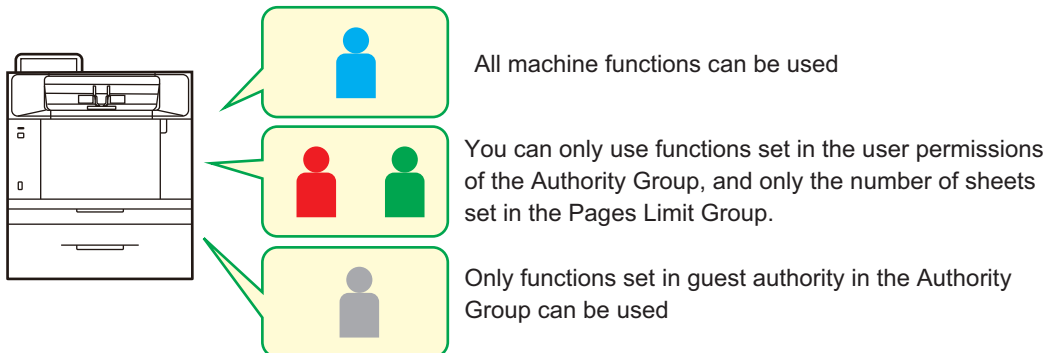
By limiting the number of pages and functions that a user or a group of users can use, incorrect use of the machine can be prevented.

To prevent unauthorized use, persons who are not registered can be prohibited from using the machine or prohibited from using certain functions.

Example: Information stored in User Name Registration

	User Name : AAA Pages Limit Group : "Limited" group	Authority Group: User
	User Name : BBB Pages Limit Group : "Limited" group	Authority Group: User
	User Name : CCC Pages Limit Group : "Unlimited" group	Authority Group: Administrator
	User Name : None (Users not registered in the machine)	

Using the machine





PAGE LIMIT GROUP LIST

A Page Limit Group List can be used to limit the number of sheets that users in a specific group can use for print jobs. The users can also be prohibited from using certain functions.

Page Limit Group List A

Printer :

B/W : Unlimited

Full Color : Prohibited

This section explains how to set the Page Limit Group List.

- There is no limit on black & white printing.
- Color printing cannot be used.

AUTHORITY GROUP

Authority Group is used to restrict the functions and settings that users who belong to a specific group can use. By setting restrictions on functions and settings, you can prevent inexperienced users from performing incorrect operations and settings, and thereby enable safe use of the machine.

Main authority types (Default Group List)

Admin



All functions can be used and machine settings can be configured.

User

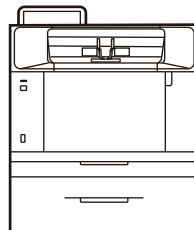


Print and other functions can be used, but machine settings cannot be configured.

Guest



Only certain functions can be used.





USING THIS MACHINE IN A NETWORK ENVIRONMENT

USING WI-FI

WI-FI

This machine can connect to mobile devices and others via Wi-Fi.

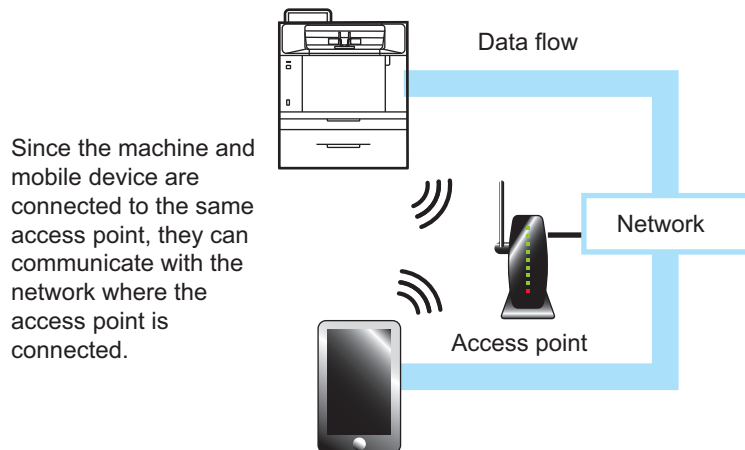
This machine can use three communication modes.

Wi-Fi environment can be configured from System Settings.

COMMUNICATION MODES OF WI-FI

Infrastructure Mode

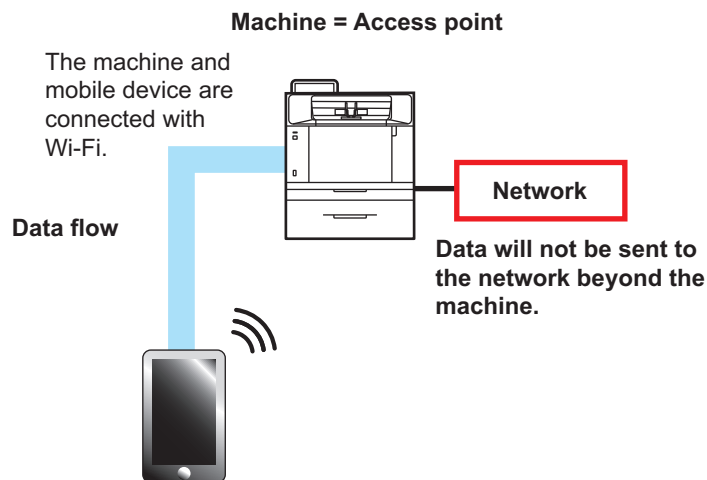
The machine and mobile device can communicate via network with an access point installed.



Direct Communication

Access Point Mode

The machine can be set as an access point and communicate with a mobile device. In this mode, communication with the network to which the machine is connected is unavailable.

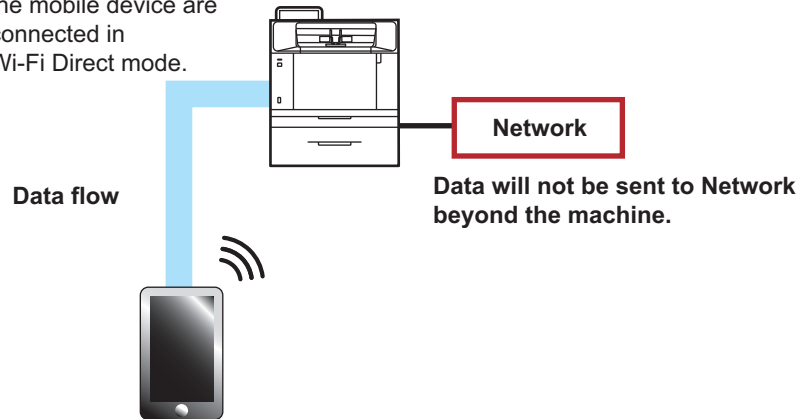




Wi-Fi Direct Mode

The machine and mobile device directly communicate via Wi-Fi. In this mode, communication with the network to which the machine is connected is unavailable.

The machine and the mobile device are connected in Wi-Fi Direct mode.



This function can be used on an Android device.

WPS

When connecting with Wi-Fi, connection to the network environment can be done simply with WPS, instead of manually configuring SSID and security setting.



WPS is available for the infrastructure mode only.



CONNECTING AND USING A MOBILE DEVICE WITH THIS MACHINE

You can connect by displaying a QR code on the machine's touch panel and scanning the code with a mobile device that has a dedicated application installed.

QR codes can also be used to connect to access points other than this machine.



For dedicated applications that can be used, consult your dealer or nearest SHARP Service Department.

CONNECTING BY QR CODE

You can connect by displaying the QR code on the machine's touch panel and then having your mobile device (with the dedicated application already installed) read the QR code.

The machine sends the information required for connection to the mobile device, and the information is saved. No settings are required on the mobile device, and setup is quickly accomplished.

Configure settings on the machine in advance to enable connection by QR code.



This function can be used on an Android device and on an iOS device.

1

Tap the [Easy Connect (QR code)] key in the home screen.

The QR code appears on the touch panel.

In advance, enable QR codes in [Easy Connection Setting] in the Web page and enable display of the [Easy Connect Setup (QR code)] key in [Home Screen Settings].

2

Start the dedicated application on your mobile device

3

Read the QR code on the touch panel with your mobile device



The QR code is the machine's connection information. This information is saved on your mobile device. You can also set an external access point as the connection destination.



PRINTING AND SCANNING USING A MOBILE DEVICE

Use the following application to connect your mobile device to the machine to print data on the mobile device or to send scanned data from the mobile device's camera or other device to the machine.



- Before connecting the mobile device to the machine, set the machine to be able to connect to the mobile device by setting the machine to [System Settings] → [Network Settings] → [Wireless Settings (Infrastructure Mode)/Wireless Settings (Access Point Mode)] from the operation panel (in the Web page, select [System Settings] → [Network Settings] → [Wireless Settings])
- See the application's user manual for details on using the application with the corresponding mobile device.
- Sharpdesk Mobile is available for use with Wi-Fi Direct. See the Sharpdesk Mobile manual for details.

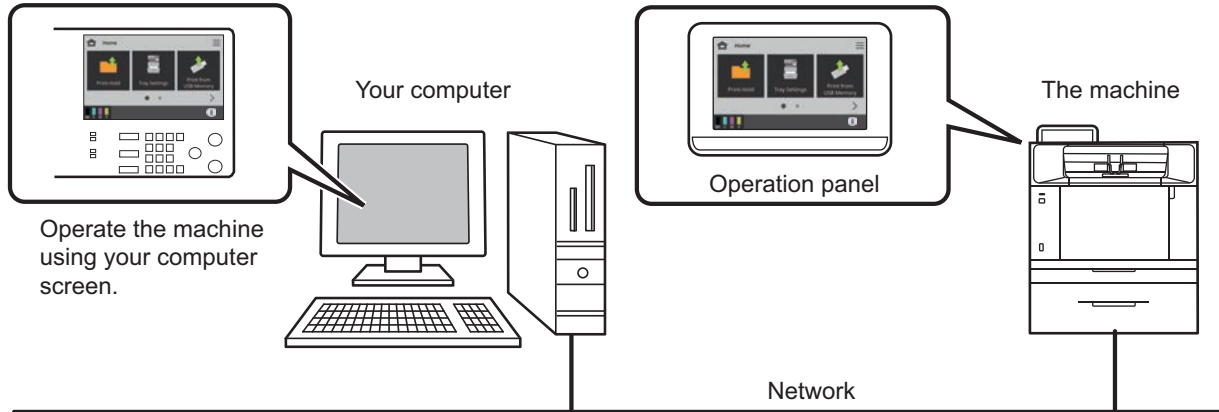
	iOS	Android
Print	<ul style="list-style-type: none">• Sharpdesk Mobile	<ul style="list-style-type: none">• Sharpdesk Mobile• Print Service Plugin
Scan	<ul style="list-style-type: none">• Sharpdesk Mobile	<ul style="list-style-type: none">• Sharpdesk Mobile



REMOTE OPERATION OF THE MACHINE

Remotely operate the machine on your computer or mobile device such as smartphone.

You can operate the machine from the same panel as the machine's operation panel that is displayed on your PC, with the same feel as operating in front of the machine.





The remote operation function can only be used on one device at a time.

Before you can use the remote operation function, the following preparation is required.

- From the operation panel, select [System Settings] → [Common Settings] → [Operation Settings] → [Remote Software Operation] and select [Allow] for [Operational Authority].
- Connect the machine to the network.
- Install a VNC application software in your device.

After the preparation is completed, you can operate the machine from a VNC client. For instructions on how to connect to the machine from a VNC client, see the VNC application manual.



- When the VNC client connects to the machine, a message will appear on the operation panel of the machine. Follow the message on the operation panel of the machine to permit the connection.
- When the machine is connected to a VNC application software,  appears on the fixed display area of the machine's touch panel. If you wish to disconnect, exit the VNC application software or tap .
- Use the operation panel in the same way as you would on the machine. However, you cannot enter values in series by continuously clicking the key.



UNIVERSAL DESIGN IN THE MACHINE

UNIVERSAL DESIGN IN THE MACHINE

The structure of the machine and the software are designed to allow all people to use the machine with ease.

UNIVERSAL DESIGN RELATED TO OPERATION

Changing of key response time

The response time of the keys can be changed as needed.

From the operation panel, select [System Settings] → [Common Settings] → [Operation Settings].

- **Time for Accepting Key Entry**

This setting determines how long a key in the touch panel must be tapped until the key input is registered. The time can be set from 0 to 2 seconds in increments of 0.5 seconds.

By lengthening the time setting, key input can be prevented when a key is tapped accidentally. Keep in mind, however, that when a longer setting is selected more care is required when tapping keys to ensure that key input is registered.

- **Disable Auto Key Repeat**

This is used to disable key repeat.

Key repeat causes a setting to change continuously not only each time the key is tapped but while a key is tapped.

- **Long-touch Detection Time**

Select a time when a long key touch is detected.

UNIVERSAL DESIGN FEATURES

The machine has design features and settings that are compatible with universal design.

Easy-to-use user interface

- **Customizing the home screen - intuitive and easy-to-use design**

A flat icon design is used to make the screen intuitive and easy to view. The toner level is always shown, eliminating the need to perform an action to check the toner level.



For the procedures for editing the home screen, see "[EDITING THE HOME SCREEN \(page 2-9\)](#)".

- **Multi-language display**

The language used in the touch panel can be changed to another language such as English or French.

Select the desired language in "Language Settings".

Intuitive operation

- **Remote operation**

You can display the machine's touch panel on a computer on the same network to operate the machine from the computer. You can show how to use the machine on a computer, and people who have difficulty using the touch panel can operate the machine from a computer.

[REMOTE OPERATION OF THE MACHINE \(page 4-15\)](#)



Easier operation at the machine

- **Darkened output tray color**

Output tray colors are darkened to make it easy to distinguish the tray to which a job has been output.

Simple toner replacement

- **Toner box can be opened with one hand**

The box that contains a toner cartridge can be easily opened with one hand.

- **Prevention of toner cartridge mis-installation**

To prevent installation of a toner cartridge in the wrong location, each color of toner cartridge can only be installed in its own location.

[REPLACEMENT OF TONER CARTRIDGE \(page 1-25\)](#)



SETTING MODE

SETTING MODE

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SETTING MODE

SETTING MODE

"Settings" allows management of various functions that will make it easier to use the machine, such as default registration for each function, network connection setting, and log check of operation status.

Setting mode can also be selected using the Web browser by accessing the machine from a PC connected to the same network as the machine.



- **Administrator password**

To maintain security, the machine administrator should promptly change the password after the machine is purchased. (For the default administrator password, see Start Guide.) To change the password, see "CHANGE PASSWORD".

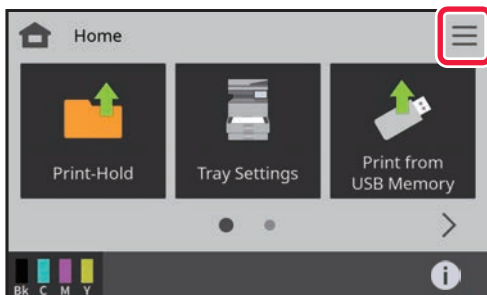
- **The built-in server (Web page) of the machine**

You can access the machine's built-in server from a Web browser and change the machine's settings on the Web page that appears. When "Web page" is used in this manual, it means this built-in server.

- Items that are not displayed on the Web page can be set from the operation panel.

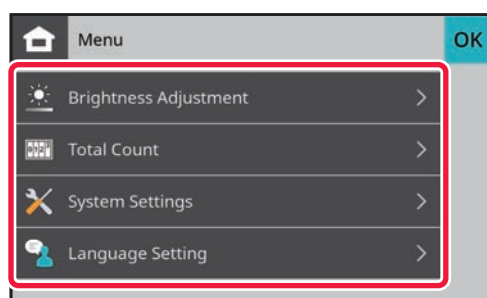
DISPLAYING THE SETTING MODE ON THE MACHINE

1



Tap the [Menu] icon.

2



Tap the item that you want to set.



- To quit the setting mode, tap the [OK] key in the upper right corner of the screen.
- For details on login procedures when user authentication is enabled, see "[USER AUTHENTICATION \(page 4-5\)](#)".

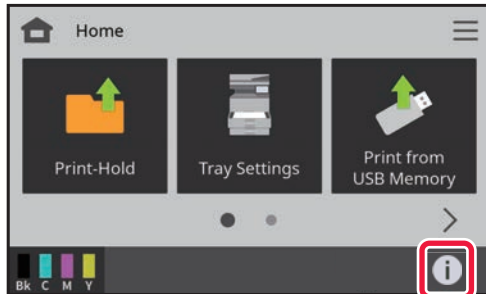


DISPLAYING THE SETTING MODE (WEB VERSION)

When the machine is connected to the network, access the built-in Web server of the machine using the PC's Web browser.

From the setting mode of the machine, print the IP address of the machine and enter the address on the PC's Web browser.

1



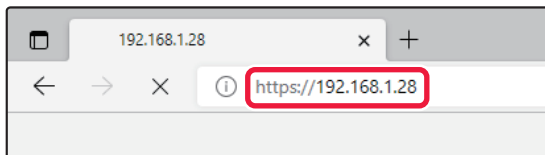
Tap the [Machine Info.] icon.

2



Check the IP address in the machine information.

3



Start the Web browser on the PC, and enter the IP address of the machine.

Start a Web browser on a PC on the same network the machine is on, and enter the IP address of the machine.

Recommended Web browsers:

Microsoft Edge (Windows®),
Firefox (Windows®),
Safari (Mac OS®)
Chrome (Windows®)
Latest version and previous major release

Displays the setting mode (Web version).

In the factory default state, the user password must be entered.

Depending on the machine settings, user authentication may be required to display the setting mode (Web version). For password and other information required for user authentication, contact the administrator of the machine.



4

Select a login name and enter your password.

Entering a password

The screenshot shows a 'Login' form with the following elements: a 'Login(P)' button and an 'Cancel(C)' button at the top; a 'Login Name:' label with a dropdown menu showing 'User'; a 'Password:' label with an input field; and another 'Login(P)' button and 'Cancel(C)' button at the bottom. A 'Support Information' link is visible at the very bottom. Red boxes highlight the top 'Login(P)' button, the 'User' dropdown menu, the password input field, and the bottom 'Login(P)' button.

- If you click an item that requires administrator rights, the password entry screen will appear regardless of the settings.
- Select a user that has administrator rights and enter the user password.
- If user authentication is not enabled, you can set the login name to "Administrator" and enter the administrator password to log in to the Web page.

Once you have logged in to the Web page with administrator rights, the password entry screen will not appear when you click other items that require administrator rights (until you log out).



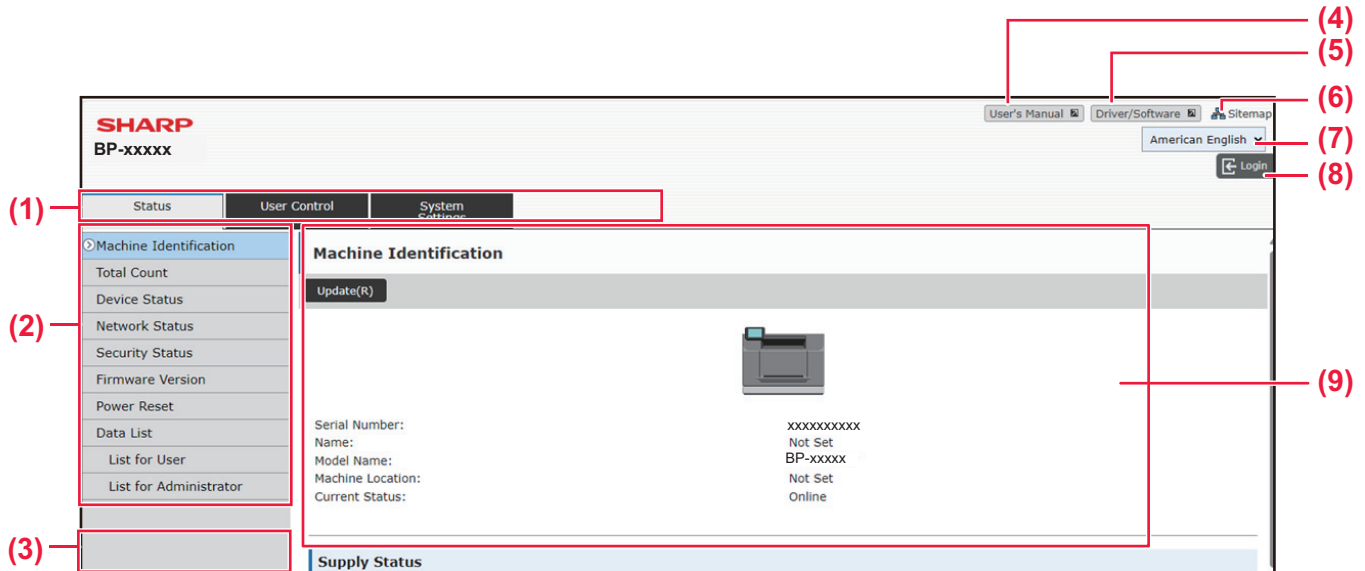
At the bottom of the login screen you will find links to download manuals, such as the User's Manual, and the latest printer drivers.



SETTING MODE SCREEN

This section describes typical items in the operation method in the setting mode.

OVERVIEW OF SETTING MODE



(1) Menu tab

This tab shows the first level of the setting menu. Click this tab to show the tab's setting items in the setting menu.

Some settings such as the system settings do not appear in the setting menu when the tab is clicked. Instead, further setting item buttons appear in the setting area.

(2) Setting menu

This shows the items that can be set on the Web page. The items are in a tree structure.

When you click an item that requires machine administrator rights, the password entry screen appears. Select the previously registered login name and enter the password.

(3) Custom links

You can register custom links in advance to show the custom links in the setting menu.

► [Custom Links \(page 5-41\)](#)

(4) User's Manual Download

Go to the website of the instruction manual in PDF format such as the user's manual.

(5) Driver/Software

Go to the website where you can download the printer driver and software.

(6) Sitemap

This shows a sitemap of the website.

(7) Language

Set the language that appears on the Web page.

(8) [Login/Logout] button

[Login] button

Click to log in to the Web page.

[Logout] button

When you have completed all settings in the Web pages, click this button to log out and exit the web browser.

(9) Setting area

This shows the setting screen of the item selected in the setting menu at left.



SETTING METHOD

This section explains the basic procedure for configuring settings using "Home Screen Settings" as an example. This setting is used to change the background image of a home screen to an image provided by the user.

1 Connect to the Web page as explained in "[DISPLAYING THE SETTING MODE \(WEB VERSION\) \(page 5-4\)](#)".

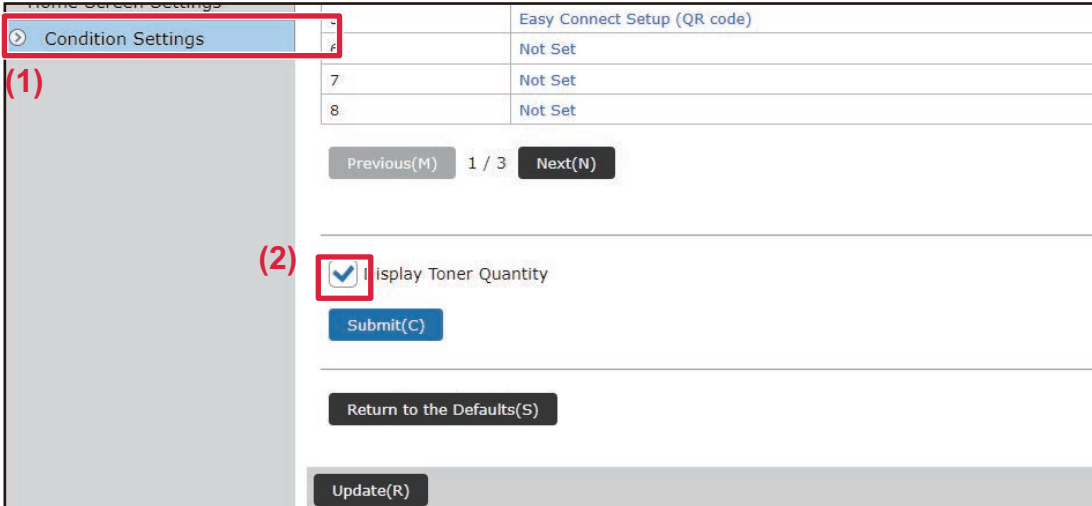
2 Display the "Home Screen Settings" setting screen.

(1) Click the [System Settings] tab ().

The setting items of the system settings appear in the setting area.

(2) Click the [Home Screen Settings] button ().

3 Check the "Display Toner Quantity" checkbox and click the [Submit] button.



Home Screen Settings	
Condition Settings	Easy Connect Setup (QR code)
	Not Set
7	Not Set
8	Not Set

Previous(M) 1 / 3 Next(N)

Display Toner Quantity

Submit(C)

Return to the Defaults(S)

Update(R)

4 If you have another item you want to set, configure the setting from the setting menu or menu tab.



If you use the "Forward" or "Back" function of the web browser to move to a different item, the item that you set may not be saved. Use the setting menu or menu tab to move to a different item.

5 When you have finished configuring settings, click the [Logout] button and exit.

When you exit the settings, a message may appear on the touch panel of the machine. Read and then close the message.



SETTING MODE LIST

SETTING MODE LIST

Click the link file to see the details of each description.

In the setting mode, there are some that can be set only on the Web page and some that can be set only on this machine.



- Depending on the machine specifications and peripheral devices installed, it may not be possible to use settings.
- The System Settings section can be found by following the breadcrumb trail at the top if you are referring to it in the HTML manual.
- The setting items that are common to both the operation panel and the Web page are described in the Web page. The location of setting items may differ depending on the machine and the Web page.

THE SETTING MODE LIST OF THE OPERATION PANEL

This list is displayed when you tap the [Menu] icon on the home screen.

■ LCD Control

● LCD Control

■ Total Count

● Total Count

■ System Settings-Common Settings-Operation Settings

● Operation Settings

- ▶ Message Time Setting
- ▶ Language Setting
- ▶ Default Display Settings
- ▶ Display IP Address on the Machine Information Screen
- ▶ Icon is Displayed when Network Cable is not Connected.
- ▶ Restrict Total Count display
- ▶ Alignment Order of 10-Key
- ▶ Auto Clear Setting
- ▶ Time for Accepting Key Entry
- ▶ Disable Auto Key Repeat
- ▶ Time for Accepting Key Entry of Long Touch
- ▶ Remote Operation Settings
- ▶ Data List
- ▶ Keyboard Select



■ System Settings-Common Settings-Device Control

● Device Control

- ▶ Clock Adjust
- ▶ Paper Type for Auto Paper Selection
- ▶ Disabling of Tray Settings

■ System Settings-Common Settings-Sound Settings

● Sound Settings

- ▶ Beep Sound Settings (Common)
 - ◆ Keys Touch Sound/Powering Off Sound

■ System Settings-Network Settings

● Network Settings (Operation panel)

- ▶ Confirmation of Network
- ▶ Connection Type
- ▶ Wired Settings
- ▶ Wireless Settings (Infrastructure Mode)
- ▶ Wireless Settings (Access Point Mode)

■ System Settings-Security Settings

● Security Settings

- ▶ Password Setting
- ▶ Enable Filter
- ▶ Initialize Data in Machine

■ System Settings-Energy Save

● Energy Save

- ▶ Auto Power Shut-Off Mode
- ▶ Preheat Mode Setting



■ System Settings-System Control

● System Control

- ▶ Reset the NIC
- ▶ Firmware Update Settings

■ System Settings-Image Quality Adjustment

● Image Quality Adjustment

- ▶ Fusing Cleaning
- ▶ Registration Adjustment
- ▶ Color Balance Adjustment

■ System Settings-Data List

● Data List

- ▶ List for User
- ▶ List for Administrator

■ Language Setting

● Language Setting



THE SETTING MODE LIST ON THE WEB PAGE

This is the list of setting modes that can be set on the Web page.

■ Status

● Status

- ▶ Machine Identification
- ▶ Total Count
- ▶ Device Status
- ▶ Network Status
- ▶ Security Status
- ▶ Firmware Version
- ▶ Power Reset
- ▶ Data List
 - ◆ List for User
 - ◆ List for Administrator

■ User Control-User Settings

● User Settings

- ▶ User List
- ▶ User Information Print

■ User Control-Access Control Settings

● Access Control Settings

- ▶ Pages Limit Group
- ▶ Authority Group

■ User Control-User Count

● User Count

- ▶ View User Count
- ▶ Save User Count

■ System Settings-Home Screen Settings

● Home Screen Settings

- ▶ Condition Settings



■ System Settings-Printer Settings

● Printer Settings

- ▶ Condition Settings
 - ◆ Prohibit Notice Page Printing
 - ◆ Prohibit Test Page Printing
 - ◆ A4/Letter Size Auto Change
 - ◆ Bypass Tray Settings
- ▶ Interface Settings
 - ◆ I/O Timeout
 - ◆ Network Port Emulation Switching
- ▶ Initial Status Settings
- ▶ PCL Settings
- ▶ PostScript Settings
- ▶ Print Setting from PC/Mobile Terminal
 - ◆ FTP Print
 - ◆ Port Number
 - ◆ IPP Print (Driverless)
 - ◆ geo URI (RFC 5870)
- ▶ Print-Hold Setting

■ System Settings-Authentication Settings

● Authentication Settings

- ▶ Default Settings
 - ◆ User Authentication
 - ◆ Authentication Settings
 - ◆ Default Network Authentication Server Setting
 - ◆ Specify network server access control
 - ◆ Authentication Method Setting
 - ◆ Card Setting
- ▶ Administration Settings
 - ◆ Disable Printing by Invalid User
 - ◆ Automatic Logout Setting
 - ◆ A Warning when Login Fails
 - ◆ Enable IPP Authentication Except for Printer Driver
- ▶ Actions when the user is authenticated
 - ◆ Display only the Files of Logged-in Users
 - ◆ Reset Counter After Sending E-mail Status
- ▶ Screen Display Settings after the authentication
 - ◆ Login Name Display
 - ◆ Display Usage Status after Login
- ▶ Card Reader Settings
 - ◆ Condition Settings



■ System Settings-Common Settings-Paper Settings

● Paper Settings

- ▶ Paper Tray Settings
 - ◆ Auto Switching of Tray
 - ◆ Display Paper Tray Settings when bypass tray detects paper.
 - ◆ Paper Weight Setting

■ System Settings-Common Settings-Operation Settings

● Operation Settings

- ▶ Custom Links

■ System Settings-Common Settings-Device Control

● Device Control

- ▶ Condition Settings
 - ◆ Paper Type for Auto Paper Selection
 - ◆ Plain Paper Compatibility Settings
 - ◆ Disabling of Tray Settings
- ▶ Status Indicator Setting
 - ◆ Data Indicator Setting
 - ◆ Error Light Setting
- ▶ Machine Identification Settings
- ▶ Clock Adjust
 - ◆ Daylight Saving Time Setting
- ▶ Enable/Disable Settings
 - ◆ Printer Settings
 - ◆ Device Control
- ▶ Product Key



■ System Settings-Network Settings

● Network Settings (Web page)

- ▶ Quick Settings
 - ◆ Wireless Settings
 - ◆ IPv4 Settings
 - ◆ Network Name Settings
 - ◆ DNS Settings
 - ◆ SMTP Settings
 - ◆ LDAP Settings
- ▶ Network Name Setting
 - ◆ Device Name
 - ◆ Domain Name
 - ◆ Comment
- ▶ Interface Settings
 - ◆ Connection Type
 - ◆ General Settings
 - ◆ IPv4 Settings
 - ◆ IPv6 Settings
 - ◆ DNS Settings
 - ◆ IEEE802.1X Setting
- ▶ Services Settings
 - ◆ SMTP
 - ◆ Kerberos
 - ◆ mDNS
 - ◆ SNMP
- ▶ Print Port Settings
 - ◆ LPD
 - ◆ RAW
 - ◆ WSD
- ▶ LDAP Settings
- ▶ Proxy Setting
- ▶ Wireless Settings
 - ◆ Connection Type
 - ◆ Current Setting
 - ◆ Current Wireless Status
 - ◆ Wireless Setting (infrastructure mode)
 - ◆ Wireless Setting (Direct Connection)
- ▶ Easy Connection Setting
 - ◆ QR code
 - ◆ Destination



- ▶ Device Web Page Setting
 - ◆ HTTP Access Settings
 - ◆ View Login User
 - ◆ Current Login User
 - ◆ Logout All Users

■ System Settings-Security Settings

● Security Settings

- ▶ Password Change
 - ◆ Restrict Device Web Page Access Via Password
 - ◆ Administrator Password
 - ◆ User Password
- ▶ Condition Settings
 - ◆ Restrict Print Jobs other than the current Print-Hold Job
 - ◆ Automatic Deletion of Suspended Print Jobs
 - ◆ Clear All Data When the Jobs are Completed
 - ◆ Reject Requests from External Sites
 - ◆ Mandatory Access Control
- ▶ Port Control
- ▶ Filter Setting
 - ◆ IP Address Filter Settings
 - ◆ MAC Address Filter Settings
- ▶ SSL/TLS Settings
 - ◆ Setting of SSL/TLS
- ▶ IPsec Settings
 - ◆ Condition Settings
 - ◆ IPsec Rules
- ▶ Audit Log
 - ◆ Audit Log
 - ◆ Storage/Send Settings
 - ◆ Save/Delete Audit Log
- ▶ Certificate Management
 - ◆ Device Certificate Management
 - ◆ Certificate Signing Request (CSR) Management
 - ◆ CA Certificate Management



■ System Settings-Energy Save

● Energy Save

- ▶ Eco Setting
 - ◆ Preheat Mode Setting
 - ◆ Auto Power Shut-Off Mode
 - ◆ Sleep Mode Power Level
- ▶ Eco Fusing Setting
- ▶ Toner Save Mode

■ System Settings-System Control

● System Control

- ▶ Storage Backup
 - ◆ Export Settings
 - ◆ Import Settings
- ▶ Device Cloning
 - ◆ Export Settings
 - ◆ Import Settings
- ▶ Reset Settings
 - ◆ Reset the NIC
- ▶ E-mail Alert and Status
 - ◆ Status Message
 - ◆ Alerts Message
 - ◆ SMTP Settings
- ▶ Enhanced FSS Settings
- ▶ Firmware Update Settings

■ System Settings-Initial Installation Settings

● Initial Installation Settings



STATUS

Status



All items except for the Data List are available in the system settings of the Web page.

For Device Control on the operation panel, see the following "[THE SETTING MODE LIST OF THE OPERATION PANEL \(page 5-8\)](#)".

Machine Identification

The Machine Identification displays the system information of the machine.

It displays the model name, current status, and machine location.

This setting can also be set by general users, except for some items.

Item	Description
Serial Number	Indicates the serial number of the machine.
Name	When you tap the [Not Set] key, the [Machine Identification] screen appears. If [Name] is not set, [Not Set] appears.
Model Name	Displays the standard model name of the machine.
Machine Location	The information entered in the [Machine Location] item in [Machine Identification] appears. If no name has been set, [Not Set] appears.
Current Status	<p>Displays the current status of the machine.</p> <p>If two or more errors occur at the same time, only one status is displayed according to the priority order.</p> <p>The errors and machine conditions are displayed in the following priority order.</p> <ul style="list-style-type: none"> • Printer Error • Account Limit • Incorrect Paper • Overdue service maintenance • Paper Jam • Marker Supply Missing • Toner Empty • Replace toner collection container. • Cover Open • Paper Empty • Input Tray Empty • Specified Input Tray Open • Specified Output Tray Full • Offline • Printer Warning • Toner Low • Paper Low • Input Tray Open • Output Tray Full • Output Tray Nearly Full • Near to overdue service maintenance • Online • Auto Power Shut-Off • Warming Up • Busy



Item	Description
Supply Status	Displays the current status of supplies. If staples are installed, their status is displayed.
Paper Input Tray Status	Displays the current status of the paper trays installed in the machine.
Display Pattern Setting	Switches the display pattern of the home screen.
[Reboot the Machine] key	Displays the restart screen. (Administrator rights are required.)
[Enter the Power Save Mode] key	Displays the power save mode screen. (Administrator rights are required.)

Total Count

This function shows the page count in each mode.

This setting may require administrator privileges.



- Pages printed directly from the machine such as list prints are included in the "Other Prints" count.
- The items displayed (or printed) will vary depending on the machine specifications and peripheral devices installed.
- When "Restrict Total Count display" is set, only administrators can confirm this.

Device Status

This screen shows the device status.

This setting can also be made by general users.

Item	Description
Paper Input Tray Status	Displays the current status of the paper trays installed in the machine.
Output Tray Status	Displays the current status of the output tray installed in the machine.
Supply Status	Displays the current status of supplies. If staples are installed, their status is displayed.
Device Configuration	Displays the information of options installed in the machine.

Network Status

Displays general, TCP / IP, and DNS status information.

The contents displayed here are the items to be set in the network settings and their setting values.

For each setting, see the following "[Network Settings \(Web page\) \(page 5-49\)](#)".

This setting can also be made by general users.

Security Status

Displays the security settings status of the machine.

The contents displayed here are the items to be set in the security settings and their setting values.

For each setting, see the following "[Security Settings \(page 5-67\)](#)".

This setting can also be made by general users.

Firmware Version

Shows the firmware version of the machine as a list.

This function requires administrator rights.



Power Reset

The Power Reset screen enables you to restart the machine or enter the power save mode.



This function requires administrator rights.

Item	Description
Reboot the Machine	Reboots the machine. Tapping the [Execute] key opens the Restart screen, and then tapping the [Execute] key again restarts the machine.
Enter the Power Save Mode	Shifts the machine to power save mode. Tap the [Execute] key to open the power saving mode screen.

Data List

Lists showing the settings and information registered in the machine can be printed.



- The two-sided or one-sided list printing setting is determined by Operation Settings - Data List - 1-Sided/2-Sided.
- This item is located under "System Settings" → "Data List" in the system settings from the operation panel.

List for User

This setting can also be made by general users.

List name	Description
Machine Status List	This list shows information needed by regular users, such as hardware statuses, software statuses, printer environment settings, and paper tray settings.
NIC Page (This is displayed in the system settings from the operation panel.)	This is used to print the NIC page (network interface settings, etc.).
Printer Test Page (This is displayed in the "Status" of the Web page.)	This is used to print the PCL Symbol Set List, various font lists, and the NIC page (network interface settings, etc.). <ul style="list-style-type: none"> • PCL Symbol Set List • PCL Internal Font List • PS Font List • NIC Page



Prohibit Test Page

You cannot print the test page when [Prohibit Test Page Printing] is enabled. In the Web page, select [System Settings] → [Printer Settings] → [Condition Settings] → [Prohibit Test Page Printing].

List for Administrator

You can print out the lists and reports that only the administrator can refer to.

Network Settings

- Network Settings List

User List (This is displayed in the system settings from the operation panel.)



USER CONTROL

User Settings

It manages users such as registration of users to log in and user authentication methods.



This setting can only be set on the Web page.

User List

Add, edit, and delete users for user authentication, and configure user authentication settings.

- **[Add] key**
Add a new user.
 - **[Delete All Users] key**
Deletes all registered users. (Excluding users stored as factory default.) Only the administrator of the machine can use this function.
 - **User List**
This shows the users stored as factory default and the currently stored users. An asterisk [*] appears in front of the user name of auto-registered users.
When you select a user name, the user edit or delete screen appears.
-



The [Vender] and [Vender2] options are displayed only when the vender is connected.

Storing a user

When you tap the [Add] key, the registration screen appears. Up to 100 groups can be registered.
For each setting, see the following "[Settings \(page 5-22\)](#)".

Editing and deleting a user

When you select a user from the list, the user edit/delete screen appears.
For each setting, see the following "[Settings \(page 5-22\)](#)".
A user can be deleted using the [Delete] key.



- If the login authentication with a Fixed User is set, the "Delete All Users" option cannot be used.
 - Users stored as factory default cannot be deleted.
-



Users stored as factory default

The following users are stored in the machine at the factory.

- **Administrator:**

The administrator account of the machine, stored as factory default.

- **User:**

This is used when network authentication is used and a login name that is not stored in the machine is entered directly. (This cannot be selected from the login user screen.)

- **Other User:**

This is used when a print job is executed using invalid user information. (This cannot be selected from the login user screen.)

For settings related to each of the users, see the following table.

User Name	Administrator	User	Other User
Login Name	admin	users	Other
Password	(Refer to the Start Guide)* ¹	users* ¹	-
My Folder	No	No	No
Authentication Settings	Login Locally		-
Pages Limit Group	Unlimited* ¹		
Authority Group* ²	Admin	User* ¹	Guest* ¹

*¹ Items that can be changed

*² For detailed information about each of the settings, see "List of settings and factory default settings of template groups".



Settings

Item	Description
User Name	This user name is used as the key name in the authentication screen and the sender name.
Apply User Name to Log-in Name.*1	Select this <input checked="" type="checkbox"/> to enter the entered user name in the login name. Factory default settings: Disabled
Initial	This determines where the user name will appear in the user list. Enter a maximum of 10 characters for the initials.
Index	Select a custom index to be stored. The custom index names are the same as those used in the address book. Factory default settings: User 1
Login Name*1	Login name/password Enter the login name to be used when setting authentication. Enter the password, consisting of 1 to 255 characters, that is used for user authentication by login name and password (the password is optional).
Password*1,*3	Enter the password used when setting the authentication by login name / password using 1 to 255 characters. (Optional) After entering the password, enter once again in "Password (for confirmation)".
Change Password	Check this when you want to change the set password. (Displayed when amending/deleting.) Factory default settings: Disabled
Release Operation Lock Status	Displayed when login has failed, and subsequent login to the printer is not possible. Tap the [Execute] to clear this login lock, and allow the user to log in again.
User Number*2	Enter a user number in 5 to 8 digits.
E-mail Address	Enter the e-mail address that is used in the sender list and for LDAP authentication.
Authentication Settings*1	Select either [Login Locally], [Network Authentication] (when LDAP is enabled) for authentication. Factory default settings: Login Locally
Authentication Server	When the [Network Authentication] is selected, select the server to be used for user authentication from the LDAP server list that is stored using Setting mode (Web version).
Pages Limit Group	Specify the page limit for the user by selecting one of the stored page limit groups. For more information, see " Pages Limit Group (page 5-23) ". Factory default settings: Unlimited
Authority Group	Specify the user authority by selecting one of the stored authority groups. For more information, see " Authority Group (page 5-24) ". Factory default settings: User

*1 It is not displayed when "User Number" is selected for the authentication method.

*2 It is displayed when "User Number" is selected for the authentication method.

*3 When using network authentication, the password registered in the LDAP server is used, so there is no need to set it.

User Information Print

Prints the following item lists.

Select each item and tap the [Print] key to print it out.



Access Control Settings



This setting can only be set on the Web page.

Pages Limit Group

This is used to register the page limit settings in advance for each group.

The page limit for each user is specified by selecting one of these registered groups when the user is registered.

- **[Add] key**

Use this to add a new group.

- **List Display**

This shows the currently stored groups. Selecting a group name displays the edit screen for that group.

Storing page limit groups

When you tap the [Add] key, the registration screen appears. Up to 8 groups can be registered.

Editing a page limit group

Selecting a group from the list displays the edit screen for that group.

To return a group to the factory default state, set "Select the Group Name to be the Registration Model" to "Unlimited" on the edit screen.

Settings

Item	Description
Group Name	Store a name of group (up to 32 characters).
Select the Group Name to be the Registration Model	Select one of the previously stored groups for use as a template for the new group. When selected, the settings of this group are applied.
Function Names	The name of the functions that can be configured is displayed. Set a limit for each function.
Page Limit	When [Prohibited] is selected for a mode, input from the mode is prohibited. When [Unlimited] is selected for a mode, there is no limit to the number of pages that can be input/output in that mode. When [Limited] is selected, enter a page limit (1 to 99999999 pages).



Authority Group

This is used to store the settings relevant to user authorities in advance for each group. The authority of each user is specified by selecting one of these registered groups when the user is registered.

- **List Display**

This shows the currently stored groups. Selecting a group name displays the edit screen for that group.

Editing an authority group

Selecting a group from the list displays the editing screen for that group.

To return a group to the factory default state, select the group from the list and select any of options [Return to the Administrator Authority], [Return to the User Authority], and [Return to the Guest Authority].

Item	Description		
Group Name	Displays the group name.		
	The factory default groups and their settings are shown below.		
	Admin	User	Guest
Job Settings			
Printer			
Color Mode Approval Setting	Allowed	Allowed	Only Black & White Allowed
USB Memory Direct Print	Allowed	Allowed	Prohibited
Machine Settings			
Total Count	Allowed	Allowed	Prohibited
Device / Network Status	Allowed	Allowed	Prohibited
Power Reset	Allowed	Prohibited	Prohibited
List for User	Allowed	Allowed	Prohibited
List for Administrator	Allowed	Prohibited	Prohibited
User Control (Admin)	Allowed	Prohibited	Prohibited
Home Screen Settings	Allowed	Prohibited	Prohibited
Printer Settings (Admin)	Allowed	Prohibited	Prohibited
Printer Settings (User)	Allowed	Allowed	Prohibited
Paper Settings (Bypass Tray Excluded)	Allowed	Allowed	Prohibited
Paper Settings (Bypass Tray)	Allowed	Allowed	Prohibited
Operation Settings	Allowed	Prohibited	Prohibited
Keyboard Settings	Allowed	Prohibited	Prohibited
Device Control	Allowed	Prohibited	Prohibited
Machine Identification Settings	Allowed	Prohibited	Prohibited
Clock Adjust	Allowed	Prohibited	Prohibited
Product Key	Allowed	Prohibited	Prohibited
Custom Link Setting	Allowed	Prohibited	Prohibited
Network Settings	Allowed	Prohibited	Prohibited
Security Settings	Allowed	Prohibited	Prohibited
Energy Save	Allowed	Prohibited	Prohibited
System Control	Allowed	Prohibited	Prohibited
Image Quality Adjustment	Allowed	Prohibited	Prohibited



Depending on the machine specifications and peripheral devices installed, it may not be possible to use some settings.



User Count

This displays the total number of pages printed by each user.

- **[Select All] key**
This selects all users.
- **[Clear Checked] key**
This clears all selections.
- **[Show] key**
This shows the counts of the selected user.
- **[Clear Count] key**
Use this to reset the counts of the selected user.
- **User List**
This shows the users stored as factory default and the currently stored users. When you select a user name, the user is selected.



This setting can only be set on the Web page.

View User Count

When you select a user and tap the [Show] key, this user count is displayed.

Item	Description
Next	Displays the next user (in the order of the registration numbers).
Previous	Displays the previous user (in the order of the registration numbers).
Show Counts	Displays the counts and the number of pages remaining of the selected user for each function.
Page Limit	The page limit set for the user appears in parentheses below the count.



If peripheral devices are not mounted, their count is not displayed.

Resetting user counts

Select a user in the setting screen and tap the [Delete] key. A count reset screen for that user will appear.

The reset screen will vary depending on whether a single user or multiple users were selected. The items displayed in each case are described in the table below.

When a single user is selected

Item	Description
Next	Displays the next user (in the order of the registration numbers).
Previous	Displays the previous user (in the order of the registration numbers).
Show Counts	Displays the counts and the number of pages remaining of the selected user for each function.
Clear Count	Reset the count of the selected item to "0".



When multiple users are selected

Item	Description
Show Counts	Displays the counts and the number of pages remaining of the selected user for each function.
Clear Count	Reset the count of the selected item to "0".

Save User Count

Clicking the [Save] button saves the user count information as a data file.

To delete the user count information in the machine, click the checkbox next to the "Save and Delete the Data" so that it is selected and click the [Save] button.



SYSTEM SETTINGS

Total Count

Displays the total number of sheets used by the machine, the total number of sheets used for each function, and a breakdown of the number of sheets used in black and white and full color.



This setting can only be set on the operation panel.

Home Screen Settings

You can change the layout, icons, and background of the machine's home screen. This setting requires administrator privileges.



This setting can only be set on the Web page.

Condition Settings

Item	Description
Home Screen List	The order of arrangement of the shortcut keys in the home screen is indicated by the "No.", and the displayed keys appear in the home button column. To edit the home buttons, click the Home Button item.
Display Toner Quantity	Select this to display the toner level in the fixed area. Factory default settings: Enable



Printer Settings

Settings related to the printer function can be configured.



This setting can only be set on the Web page.

Condition Settings

Printer condition settings are described below.

Prohibit Notice Page Printing

Disables to print a notice page.

Factory default settings: Enable

Prohibit Test Page Printing

Disables to print the test page.

When this setting is enabled, [Status] → [Data List] → [List for User] → [Printer Test Page] in the Web page cannot be used to print test pages.

Factory default settings: Disable

A4/Letter Size Auto Change

When printing an 8-1/2" x 11" (letter) size image, this setting allows A4 size paper to be used if 8-1/2" x 11" size paper is not loaded. In addition, when printing an A4 size image, this setting allows 8-1/2" x 11" (letter) size paper to be used if A4 size paper is not loaded.

Factory default settings: Disable

Bypass Tray Settings

Enable Detected Paper Size in Bypass Tray

This is used to prohibit printing when the paper size specified for a print job is different from the paper size inserted in the bypass tray.

Factory default settings: Disable

Enable Selected Paper Type in Bypass Tray

This is used to prohibit printing when the paper type specified for a print job is different from the paper type inserted in the bypass tray.

Factory default settings: Disable

Interface Settings

Settings related to the printer function can be configured.

These settings are used to control and monitor data transmitted to the network port of the machine.

I/O Timeout

The I/O timeout can be set to any number of seconds from 1 to 999.

The I/O timeout function temporarily breaks the connection if the set duration of time elapses without any data being received by the port. After the connection is broken, the port is set to auto selection or the next print job is begun.



Network Port Emulation Switching

This setting is used to select the emulated printer language when the machine is connected by a network port. The following settings can be configured.

Auto

PostScript

PCL

Factory default settings: Auto



Unless printer errors occur frequently, it is recommended that you use the factory default setting "Auto".

Initial Status Settings

If you print data in an environment where the printer driver is not used (that is, if you print data using the MS-DOS system or if you print data using the PC that does not have the provided printer driver installed), set the detailed printing conditions. (However, the "Disable Blank Page Print" function will be effective even when the PCL printer driver is used.)

Settings

Setting item	Description
Orientation	Portrait Landscape Factory default settings: Portrait
Paper Size	Set the default paper size. Factory default settings: Varies depending on the machine configuration
Paper Type	Set the default paper type. Factory default settings: Plain Paper 1
Resolution Setting	600dpi 600dpi (High Quality) Factory default settings: 600dpi (High Quality)
Disable Blank Page Print	<input checked="" type="checkbox"/> (Enabled) <input type="checkbox"/> (Disabled) Factory default settings: It does not prohibit
2-Sided Print	1-Sided 2-Sided (Booklet) 2-Sided (Tablet) Factory default settings: 1-Sided
Color Mode	Auto Black & White Factory default settings: Auto
Fit To Page*	<input checked="" type="checkbox"/> (Use Fit to Page) <input type="checkbox"/> (Do not use Fit to Page) Factory default settings: Use Fit to Page

* Only effective when printing PDF, JPEG, and TIFF files.



PCL Settings

This is used to set the symbol sets, fonts, and line feed code used in a PCL environment.

Settings

Setting item	Settings
PCL Symbol Set Setting	Specify the symbol set used for printing. Factory default settings: PC-8
PCL Font Setting	Select a font used for printing. Factory default settings: 0: Nimbus Mono
PCL Line Feed Code	This setting is used to select how the printer responds when a line feed command is received. Factory default settings: 0.CR=CR; LF=LF; FF=FF
Wide A4	When this is enabled, 80 characters per line are printed on the 8-1/2" x 11" (A4) size paper using a 10-pitch font. (When this setting is disabled, up to 78 characters are printed per line.) Factory default settings: Disable

PostScript Settings

When an error occurs during PostScript printing, these settings determine whether or not an error notice is printed and whether or not the PostScript data is received in binary format.

Setting item	Settings
Print PS Errors	When a PS (PostScript) error occurs during PostScript printing, this setting determines whether or not an error notice is printed. Factory default settings: Disable
Binary Processing	Receive PostScript data in binary format. Factory default settings: Disable

Print Setting from PC/Mobile Terminal

Configure these settings to print files on a computer or mobile terminal by direct print.

FTP Print

Specify whether or not FTP print settings are used for direct print.

Factory default settings: Enable

Port Number

Enter the port number used for direct print.

Factory default settings: 21

IPP Print (Driverless)

Print from the network using the IPP protocol without using a printer driver.

Factory default settings: Enable

geo URI (RFC 5870)

You can set the location information of this machine.

Factory default settings: geo



Print-Hold Setting

Specify settings for hold print setting.

Delete All Print-Hold Data

Delete all hold print data remaining in the memory of the machine.



Authentication Settings



This setting can only be set on the Web page.

Default Settings

User Authentication

This setting enables or disables user authentication and specifies the authentication method.

When the user authentication is enabled, each user of the machine is registered. When a user logs in, the separate authentication settings apply to the user. This function allows greater control of security and cost management than that on previous machines.

Even if user information is not stored on the machine, you can directly enter the user information stored in an LDAP server to log in the machine if necessary. For more information see "[Users stored as factory default \(page 5-21\)](#)".

Factory default settings: Disable



- For the procedure for storing users, see "[User List \(page 5-20\)](#)".
 - For details on login procedures when user authentication is enabled, see "[USER AUTHENTICATION \(page 4-5\)](#)".
-

User Authentication

When [User Authentication] is enabled, the authentication screen appears before an operation is carried out in any mode.

Log in as an already registered user.

After logging in, you can move freely through the modes.

Authentication Settings

Set the location where user authentication is to be enabled.

Login Locally: User authentication is performed on this machine.

LDAP: User authentication by LDAP server.

Factory default settings: Login Locally

Default Network Authentication Server Setting

Use this to set the default network authentication server.

When you log into Web page or send a print job to the machine using user information that is not registered in the machine, the authentication server is not known.

This setting is used to select one of the LDAP servers registered in the machine as the authentication server.



When login is performed by network authentication using user information that is not registered in the machine, the login user will be the "User" registered as factory default. For more information see "[Users stored as factory default \(page 5-21\)](#)".



Specify network server access control

Register the access control information for page count limits and authorities can be registered on an network server in advance. By using this network server for network authentication, perform the user authentication based on the registered access control information.

Use this function when user authentication is performed by network authentication using an LDAP server.

Before using this function, configure settings for authentication by network server, obtain control numbers for the "Pages Limit Group" and "Authority Group" (including base settings for each group), and associate these with the control numbers registered in the machine.

To use this function, add the properties associated with "Pages Limit Group" and "Authority Group" to the directory information of the network server used for user authentication.

The property information is indicated below. Settings previously stored in the machine cannot be changed.

Property	Name of property in factory default state	Settings
Pages Limit Group	pagelimit	Registration number of Pages Limit Group registered in the machine, or a group name previously registered in the machine. Unlimited: unlimited
Authority Group	authority	Registration number of Authority Group registered in the machine, or a group name previously registered in the machine. Admin: admin User: user Guest: guest

Rename the properties that the machine obtains from the LDAP server as follows. In the Web page, select [Network Settings] → [LDAP Settings]. From the Global Address Book setting screen that is displayed, select [Linkage with User Control Function] and then select [Pages Limit Group] and [Authority Group].

The [Pages Limit Group] and [Authority Group] information that is registered in each machine determines the authority and settings that the user is actually granted. To use this function to ensure that users are granted the same authority and settings on any machine, register the [Pages Limit Group] and [Authority Group], information with the same authority so that they will be registered in each machine using the same registration numbers.

The directory information of the network server that is used cannot be changed from the machine. Consult the administrator of the network server.

If 100 users have already been manually registered, login will not be possible. Consult the administrator of the machine.

Factory default settings: Disable



- If Access Control is enabled and the access control information cannot be acquired from the authentication server, user authentication will not be possible.
- If a user that is registered in the machine is authenticated by network authentication, the user registration settings in the machine will be given priority for the page count limit group and authority group.
- If the access control obtained from the LDAP server is not registered in the machine, the factory default user authority will be applied.
- When this function is not enabled and a user is authenticated by network authentication as a non-registered user, the factory default user authority will be applied.



Authentication Method Setting

This selects the authentication method. When using user authentication, be sure to configure this setting first. The items to be configured for users stored after setting the user authentication method vary depending on the selected authentication method.

Authenticate a User by Login Name and Password

Standard authentication method using a login name and password.

Authenticate a User by User Number Only

Use this option for simple authentication if you skip the network authentication.

Factory default settings: Authenticate a User by Login Name and Password



- The login screen will vary depending on the authentication method that is selected. For more information see "[USER AUTHENTICATION \(page 4-5\)](#)".
- When "Authenticate a User by User Number Only" is selected for the authentication method, network authentication cannot be used.

Case sensitivity of login name is enabled.

Set whether or not to make login names used at the time of user authentication case sensitive. If the checkbox is set to , login names with identical spelling but different cases (upper and lower) will be identified as different login names. Therefore, login names with identical spelling but different cases will be authenticated as user names of different users. If the checkbox is set to , case sensitivity for login names is disabled. Therefore, identically spelled user names with upper and lower case character differences will be authenticated as the user name of the same user.

Factory default settings: Enable



- If the selected checkbox is changed to , and identical user names with only upper and lower case character differences exist, the user names that have already been registered are identified as user names of different users.

Card Setting

Use IC Card for Authentication

Allows the IC card to be used when authenticating the user.

Factory default settings: Disable

Administration Settings

Disable Printing by Invalid User

Print jobs by users who have not registered user information in this machine, such as jobs for which appropriate user information has not been entered in the printer driver, are prohibited.

Factory default settings: Disable

Automatic Logout Setting

When user authentication is enabled, this setting specifies whether or not to enable automatic logout. The time until logout can be specified up to 240 seconds in increments of 10 seconds.

Factory default settings: Enable



A Warning when Login Fails

When entering passwords, including administrator passwords, during user authentication, the number of incorrect password attempts is counted, and if the number of attempts reaches the specified number (three), the user account is locked, and the user is blocked from making any more attempts at authenticating their account until a period of five minutes has elapsed. The number of incorrect entries made is counted separately for each user, and the count is reset when the correct password is entered.

This prevents an unauthorized person from attempting to guess a password. (The number of failed login attempts is retained even if the power is turned off.)

Factory default settings: Disable



- Lockout only applies to the user who failed to login, not all users. Even if one user is locked out, the other users can still log in.
- When LDAP network authentication is used, lockout is executed by the server, not the machine. Select appropriate lockout settings on the server.
- If the same user has been locked out, the [Release Operation Lock Status] key is displayed in the "User Registration" screen for that user. An administrator can tap this key to carry out a manual clear.

Enable IPP Authentication Except for Printer Driver

Enable IPP authentication on a non-printer driver.

Factory default settings: Enable

Actions when the user is authenticated

Display only the Files of Logged-in Users

When retention is enabled in the printer driver and print data has been spooled to the machine, you can have the spooled print data automatically print out when the user who enabled retention logs in.

Factory default settings: Disable

Reset Counter After Sending E-mail Status

After E-mail Status has been sent, the counter is reset.

Displayed only when E-mail Alert and Status is enabled.

Factory default settings: Disable

Screen Display Settings after the authentication

Login Name Display

When user authentication is enabled, select whether the login name is shown or asterisks are shown.

Factory default settings: Display login name

Item	Description
Display login name	Show the login name.
Display login name with "***"	Hide the login name with asterisks.

Display Usage Status after Login

When user authentication is enabled, this setting specifies whether or not to display the page counts of a user when the user logs in.

Factory default settings: Disable



Card Reader Settings

Condition Settings

Card Type/Card Reader

Specify the card type and card reader to be used.

Factory default settings: 200

Card ID Registration/Change Authority

Set whether the logged-in user can register/change/delete his/her card ID information in this machine.

Factory default settings: Disable

Check Facility Code in HID mode

Set whether to check the facility code when using a HID card.

When this setting is enabled, the facility code (up to 128 single-byte characters) is registered.

Factory default settings: Disable

Facility Code

Enters the facility code of a HID card. When you tap the [Store] key, the facility code is stored.

Importing from the setup file

When you enter the configuration file name and tap the [Execute] key, the card area settings are read from the configuration file. If you tap the [Clear] key, all files that match the current search conditions are deleted.



Paper Settings

Paper Tray Settings



This setting can only be set on the Web page.

Paper tray and paper type settings are explained in this section.

These settings specify the paper type, paper size, and functions allowed for each paper tray.

When the [Paper Tray Settings] key is tapped, a list appears showing the trays and the current settings.

Auto Switching of Tray

When a tray runs out of paper during printing, this determines whether or not another tray with the same size and type of paper is automatically selected and printing continues.

Factory default settings: Disable

Display Paper Tray Settings when bypass tray detects paper.

You can have the paper tray settings appear automatically when paper is detected in the bypass tray.

Factory default settings: Disable

Paper Weight Setting

These are used to control the toner fusing temperature according to the weight of the paper.

These settings apply to recycled paper, punched paper, pre-printed paper, letterhead paper and colored paper.

You can select "16 to 24 lbs." or "24+ to 28 lbs." ("60g/m² to 89g/m²" or "90g/m² to 105g/m²").

Factory default settings: 60 - 89g/m² (16 - 24 lbs)



Operation Settings



All items except for the Custom Link are available in the system settings from the operation panel.

Message Time Setting

The duration of time that messages appear in the touch panel (the time until a message is automatically cleared) can be set to any number of seconds from 1 to 12.

Factory default settings: 6 seconds

Language Setting

The language that appears in the touch panel can be changed to any language.

Factory default settings: Varies depending on country and region

Default Display Settings

Set the screen that appears after auto clear and login.

Factory default settings: Home Screen

Display IP Address on the Machine Information Screen

This setting specifies whether or not to display the IP address of the machine on the "Machine Information" screen.

Factory default settings: Enable

Icon is Displayed when Network Cable is not Connected.

Show an icon when a LAN cable is not connected.

Factory default settings: Enable

Restrict Total Count display

When this setting is enabled, the total count is hidden when checking the total count from the home screen.

Factory default settings: Disable

Alignment Order of 10-Key

Set whether the numeric keys are arranged in ascending order with "1" in the upper left corner, or "1" in the lower left corner.

Factory default settings: Ascending order from upper left



Auto Clear Setting

Cancel Auto Clear Timer

Disables the auto clear mode.

Factory default settings: Disable

Auto Clear Setting

The time until Auto Clear activates can be set to any number of seconds from 10 to 240 in increments of 10 seconds. If the machine is not used for the duration of time set here, the auto clear function will clear any settings that have been selected and return the default display screen.

Factory default settings: 60 seconds

Time for Accepting Key Entry

This setting determines how long a key in the touch panel must be tapped until the key input is registered. The time can be set from 0 to 2 seconds in increments of 0.5 seconds.

By lengthening the time setting, key input can be prevented when a key is tapped accidentally. Keep in mind, however, that when a longer setting is selected more care is required when tapping keys to ensure that key input is registered.

Factory default settings: 0.0 seconds

Disable Auto Key Repeat

This is used to disable key repeat.

Factory default settings: Disable

Time for Accepting Key Entry of Long Touch

Select a time when a long key touch is detected.

Factory default settings: 0.5 seconds

Remote Operation Settings

Configure settings required for remote operation of the machine from a PC connected to the same network.

Remote Software Operation

- Allow Operational Authority:

This is used when remote software is used to operate the machine remotely.

- View Password Entry Screen:

When operating the machine by remote control using the remote software, the password entry screen will appear on both the computer and the machine, or on only the computer.

Factory default settings: Allow Operational Authority: Prohibited, View Password Entry Screen: Display in Both PC and Machine



Operation from Specified PC

- Allow Operational Authority:
This is used to allow remote operation of the machine using the specified PC.
- Hostname or IP Address of PC:
Enter the host name or IP address of the PC to be connected to the machine.
- View Password Entry Screen:
When operating the machine by remote control using the remote software, the password entry screen will appear on both the computer and the machine, or on only the computer.

Factory default settings: Allow Operational Authority: Prohibited, View Password Entry Screen: Display in Both PC and Machine

Operation by User who Has Password

- Allow Operational Authority:
This is used to allow a user who has a password to operate the machine remotely. For information on the password, consult your service technician.
- View Password Entry Screen:
When operating the machine by remote control using the remote software, the password entry screen will appear on both the computer and the machine, or on only the computer.

Factory default settings: Allow Operational Authority: Prohibited, View Password Entry Screen: Display in Both PC and Machine

Data List

Set whether to print the data list with 1-sided print or 2-sided print.

Factory default settings: 1-sided print

Keyboard Select

Change the key layout and display according to the set language.

Factory default settings: Varies depending on country and region

Custom Links

You can display registered web addresses in the display field of the setting menu.

By clicking on a custom link, you can jump to the web site of the registered address.



This setting can only be set on the Web page.



Device Control

Various devices mounted on the machine can be set.



All items except for the Clock Adjust, Daylight Saving Time Setting, Paper Type for Auto Paper Selection and Disabling of Tray Settings are available in the system settings of the Web page.

For Device Control on the operation panel, see the following "[THE SETTING MODE LIST OF THE OPERATION PANEL \(page 5-8\)](#)".

Condition Settings

Paper Type for Auto Paper Selection

The paper types* that the Auto Paper Selection function will select can be specified. Select one of the following settings:

- Plain 1
- Plain 2
- Recycled

The Auto Paper Selection function will not select any paper types other than the paper types specified with this setting.

* The paper type set for each paper tray by selecting [System Settings] in "Settings" → [Paper Tray Settings].

Factory default settings: Plain1, Plain2



This item is located under "Device Control" in the system settings from the operation panel.

Plain Paper Compatibility Settings

Set the basis weight of plain paper that is normally used.

Select from Plain1 and Plain2.

The weight of Plain Paper 1 is 16 to 24 lbs bond (60 to 89 g/m²). The weight of Plain Paper 2 is 24 to 28 lbs bond (90 to 105 g/m²).

Factory default settings: Plain1

Disabling of Tray Settings

This setting is used to prohibit tray settings (except for the bypass tray).

Factory default settings: Disable



This item is located under "Device Control" in the system settings from the operation panel.



Status Indicator Setting

Data Indicator Setting

Sets the operation of the information lamp. For details on the settings, see "[INFORMATION INDICATOR \(page 1-5\)](#)".

Factory default settings: Pattern 1

Error Light Setting

Sets the operation of the error lamp. For each setting, see the following "[INFORMATION INDICATOR \(page 1-5\)](#)".

Factory default settings: Light & Blink

Machine Identification Settings

Enter a name or code to identify the machine.

Clock Adjust

Use this to set the date and time in the machine's built-in clock.

Item	Description
Specify Time Zone	If your region is ahead of GMT (Greenwich Mean Time), select [+]. If your region is behind GMT, select [-]. Next, specify the time difference between your region and GMT in hours and minutes. (Example: If your region is Japan, + 9 hours 00 minutes.)
Date&Time Settings	Select and set the year, month, day, hour, and minute.



This item is located under "Device Control" in the system settings from the operation panel.

Daylight Saving Time Setting

Enable daylight saving time.

Item	Description
Daylight Saving Time Setting	Select whether or not the Daylight Saving Time Setting is enabled. If disabled, the following settings will not be possible. Factory default settings: Disabled
Select Setting Type	Specify whether the starting and ending day of daylight saving time are to be set using the day of the week or the date.
Start Time	Set the starting time of daylight saving time. If you selected "Day of the Week" in "Select Setting Type", set the starting week of daylight saving time and then the starting day. If you selected "Date" in "Select Setting Type", set the starting date. Set the hour and minute and the UTC (Coordinated Universal Time) setting.
Completing Time	Set the ending time of daylight saving time in the same way as you set the starting time.
Adjustment Time	Set the time to be adjusted when daylight saving time begins.



This item is located under "Device Control" in the system settings from the operation panel.



Enable/Disable Settings

The following settings enables or disables certain functions.

The prohibited setting items in the settings of each function such as Printer Settings and the items in this prohibited setting are linked.

Printer Settings

Prohibit Notice Page Printing

Disables to print a notice page.

Factory default settings: Enable

Prohibit Test Page Printing

Disables to print the test page.

When this setting is enabled, [Status] → [Data List] → [List for User] → [Printer Test Page] in the Web page cannot be used to print test pages.

Factory default settings: Disable

Exclude Bypass-Tray from Auto Paper Select

When [Auto] is selected for paper type selection, the bypass tray is excluded from the trays that can be selected. It is recommended when special paper is set up in the bypass tray frequently.

Factory default settings: Disable

Disable Blank Page Print

Disables to print a blank page.

Factory default settings: Disable

Device Control

Disabling of Tray Settings

This setting is used to prohibit tray settings (except for the bypass tray).

Factory default settings: Disable

Product Key

E-mail Alert and Status

Enter the product key and application number for the above functions.



Depending on the activation status of the extended function of the machine, the items displayed will change.
For the product key to be entered, contact your dealer.



Sound Settings

Configure machine notification sounds and their volume.



This setting can only be set on the touch panel.

Beep Sound Settings (Common)

Keys Touch Sound/Powering Off Sound

Controls the key touch sound level, or turns the sound off.

Factory default settings: Low



Network Settings (Operation panel)

This section describes the Network Settings in the System Settings from the operation panel.



This setting can only be set on the operation panel.

Confirmation of Network

The current network configuration of the machine is displayed.

Connection Type

Switch between [Wired Only], [Wireless (Infrastructure Mode)] or [Wired+Wireless (Direct Connection)] according to the network connection status.

Factory default settings: Wired + wireless (Direct Connection)

Wired Settings

Configure the wired connection settings.

IPv4 Settings

When using the machine on a TCP/IP (IPv4) network, use this setting to configure the IP address of the machine.

Enable DHCP

Use this setting to have the IP address obtained automatically using DHCP (Dynamic Host Configuration Protocol)/BOOTP (Bootstrap Protocol). When this setting is enabled, it is not necessary to manually enter an IP address.

Factory default settings: Enable



If DHCP/BOOTP is used, the IP address assigned to the machine may change automatically. If the IP address changes, printing will not be possible.

IPv4 Address

Enter the IP address of the machine.

Subnet Mask

Enter the IP subnet mask.

Default Gateway

Enter the default gateway address.



IPv6 Settings

When using the machine on a TCP/IP (IPv6) network, use this setting to configure the IP address of the machine.

Enable IPv6

Enable this setting.

Enable DHCP

Use this setting to have the IP address obtained automatically using DHCP (Dynamic Host Configuration Protocol)/BOOTP (Bootstrap Protocol). When this setting is enabled, it is not necessary to manually enter an IP address.

Factory default settings: Enable



If DHCP/BOOTP is used, the IP address assigned to the machine may change automatically. If the IP address changes, printing will not be possible.

Manual Address

Enter the IP address of the machine.

Prefix Length

Enter the prefix length (0 to 128).

Default Gateway

Enter the default gateway address.

Wireless Settings (Infrastructure Mode)

Set up a wireless infrastructure mode connection.

WPS

Connect the machine to the wireless router using WPS.

Push Button Method

Connect to your wireless router using WPS. After tapping this key, press the WPS button on the wireless router to connect.

PIN Code Method

When you tap this key, a PIN code will be displayed. Enter this PIN code into the configuration page of the wireless router you will be connecting to within 2 minutes.

SSID

Enter the SSID using up to 32 characters.

Security Type

Sets the security type of the wireless connection.

Encryption

Select the encryption method according to the item selected in "Security Type".



Security Key

Select a security key according to the item selected in "Security Type".

Security Type	Security Key
WEP	5 single-byte alphanumeric or 10 hexadecimal digits (64bit) or 13 single-byte alphanumeric or 26 hexadecimal digits (128bit)
WPA/WPA2-mixed Personal WPA/WPA2-mixed Enterprise WPA2 Personal WPA2 Enterprise WPA2/WPA3-mixed Personal WPA3 Personal WPA2/WPA3-mixed Enterprise WPA3 Enterprise	8 to 63 single-byte alphanumeric characters or 64 hexadecimal digits

Wireless Settings (Access Point Mode)

Set up a wireless access point mode connection.

Frequency Band

Sets which frequency band to use.

Security Type

Sets the security type of the wireless connection.

Encryption

Select the encryption method according to the item selected in "Security Type".

Security Key

Select a security key according to the item selected in "Security Type".

Security Type	Security Key
WEP	5 single-byte alphanumeric or 10 hexadecimal digits (64bit) or 13 single-byte alphanumeric or 26 hexadecimal digits (128bit)
WPA/WPA2-mixed Personal WPA2 Personal WPA2/WPA3-mixed Personal WPA3 Personal	8 to 63 single-byte alphanumeric characters or 64 hexadecimal digits

Device IP Address Settings

Sets the IP address of the access point.

Channel Settings

Sets the channel used for the access point.

IP Address Distribution Range Setting

Sets the IP address lease range (beginning of IP address and end of IP address) and lease period to be used by the access point.



Network Settings (Web page)



This setting can only be set on the Web page.

Quick Settings

Select the minimum required settings for the machine connection to the network.

Wireless Settings

Connection Type

Switch between [Wired Only], [Wireless (Infrastructure Mode)] or [Wired+Wireless (Direct Connection)] according to the network connection status.

Factory default settings: Wired + wireless (Direct Connection)

When wired + wireless (Direct connection) selected

Wireless (Direct Connection) and "Access Point Mode" is enabled.

Factory default settings: Access Point Mode

When "Wireless (Infrastructure Mode)" is selected in "Connection Type"

Access Point Search

Click this to search access points. When the search results are displayed, select the access point to use and click [OK]. [SSID], [Security Type], and [Encry.] are automatically applied.

SSID

Enter the SSID.

Security Type

Select a security type.

Factory default settings: No Sound

Encry.

Select an encryption type.

Factory default settings: No Sound

Security Key

Enter a security key.

Security Type	Security Key
None	WEP64bit: 5 characters or 10-digit hexadecimal number
WEP	WEP128bit: 13 characters or 26-digit hexadecimal number
WPA/WPA2-mixed Personal	WPA/WPA2/WPA3: 8 to 63 characters or 64-digit hexadecimal number
WPA/WPA2-mixed Enterprise	
WPA2 Personal	
WPA2 Enterprise	
WPA2/WPA3-mixed Personal	
WPA3 Personal	
WPA2/WPA3-mixed Enterprise	
WPA3 Enterprise	

Show Security Key

If it is set to ON, the security key appears.

Factory default settings: No Sound



IPv4 Settings

When using the machine on a TCP/IP (IPv4) network, use this setting to configure the IP address of the machine. The settings are shown below.

DHCP

Use this setting to have the IP address obtained automatically using DHCP (Dynamic Host Configuration Protocol)/BOOTP (Bootstrap Protocol). When this setting is enabled, it is not necessary to manually enter an IP address.

Factory default settings: Enable



If DHCP/BOOTP is used, the IP address assigned to the machine may change automatically. If the IP address changes, printing will not be possible.

IPv4 Address

Enter the IP address of the machine.

Subnet Mask

Enter the IP subnet mask.

Default Gateway

Enter the default gateway address.

Network Name Settings

Device Name

Enter a device name.

Domain Name

Enter the domain name.

Factory default settings: Sharp-Printer

DNS Settings

Primary Server

Enter the IP address of primary DNS server.

Secondary Server

Enter the IP address of secondary DNS server.

Domain Name

Enter the domain name where the selected DNS server exists.



SMTP Settings

Primary Server

Enter the IP address or the host name of the primary SMTP server.

Port Number

Enter a port number.

Factory default settings: 25

Sender Address

Enter the sender's address.

Enable SSL/TLS

If the SSL/TLS is enabled, the SMTP-over-TLS encryption communication can be used by STARTTLS command.

This requires the server to support the STARTTLS command.

To allow SSL/TLS communication, set the "Port Number" to the same port number as the normal SMTP.

Factory default settings: Disable

SMTP Authentication

Specify the authentication method for SMTP.

Factory default settings: Disable

User Name

Enter the user name.

Password

Enter the password.

To change the password, set [Change Password] to .

Connection Test

Tap the [Execute] button to test the connection to the SMTP server.

LDAP Settings

Name

Enter the address book name.

Search Root

Enters the search defaults to search for a specific area of the LDAP directory information tree.

Example: o = ABC, ou = NY, cn = Everyone

Entries must be separated by semicolons or commas.

LDAP Server

Enter the IP address or host name of the LDAP server.

User Name

Enter the account name for LDAP setting.

Password

Enter the password.

Change Password

To change the password, set .

Authentication Type

Select the authentication server from the drop-down list.

Factory default settings: Anonymous



KDC Server

Enter the IP address or host name of the Kerberos authentication server.

Realm

Enter the Kerberos realm.

Enable SSL/TLS

If is set, the SSL/TLS encryption communication is enabled.

For encrypted communication as SMTP over TLS, set "Port Number" to 465.

For encrypted communication as STARTTLS, set "Port Number" to the same port number as normal SMTP or a port number other than 465.

Connection Test

Tap the [Execute] button to test the connection to the LDAP server.



Network Name Setting

Device Name

Enter a device name.

Domain Name

Enter the domain name.

Factory default settings: Sharp-Printer

Comment

Enter a comment.

Interface Settings

Mainly set items related to TCP/IP.

Connection Type

Switch between [Wired Only], [Wireless (Infrastructure Mode)] or [Wired+Wireless (Direct Connection)] according to the network connection status.

Factory default settings: Wired+Wireless (Direct Connection)

When wired + wireless (Direct connection) selected

Select from Access Point Mode and Wi-Fi Direct Mode.

Factory default settings: Access Point Mode

General Settings

Auto-Negotiation

Automatically optimizes both communication speeds and communication modes (full/half duplex) when connected via LAN connector.

Factory default settings: Enable

Speed

Specify the communication speed of the network.

Factory default settings: 100BASE-TX

Duplex Mode

Specify the communication speed of the network.

Factory default settings: HALF



IPv4 Settings

When using the machine on a TCP/IP (IPv4) network, use this setting to configure the IP address of the machine. The settings are shown below.

DHCP

Use this setting to have the IP address obtained automatically using DHCP (Dynamic Host Configuration Protocol). When this setting is enabled, it is not necessary to manually enter an IP address.

Factory default settings: Enable



If DHCP/BOOTP is used, the IP address assigned to the machine may change automatically. If the IP address changes, printing will not be possible.

IPv4 Address

Enter the IP address of the machine.

Subnet Mask

Enter the IP subnet mask.

Default Gateway

Enter the default gateway address.

IPv6 Settings

When using the machine on a TCP/IP (IPv6) network, use this setting to configure the IP address of the machine.

IPv6

Enable this setting.

Factory default settings: Enable

DHCPv6

Use this setting to have the IP address obtained automatically using DHCP (Dynamic Host Configuration Protocol) v6. When this setting is enabled, it is not necessary to manually enter an IP address.

Factory default settings: Enable

Manual Address / Prefix Length

Enter the IP address and the prefix length (0 to 128) of the machine.

Factory default settings: 0

Default Gateway

Enter the default gateway.



If DHCPv6 is used, the IP address assigned to the machine may change automatically. If the IP address changes, printing will not be possible.

DNS Settings

Primary Server

Enter the IP address of primary DNS server.

Secondary Server

Enter the IP address of secondary DNS server.

Domain Name

Enter the domain name where the selected DNS server exists.



IEEE802.1X Setting

IEEE802.1X can be used to authenticate a user to allow use of the machine.

IEEE802.1X protocol defines port-based authentication for both wired and wireless networks.

Use IEEE802.1X authentication to allow only authenticated devices to use network, and protect against network abuse by third parties.

Depending on the Web page settings, connection to the machine may not be allowed, or the settings may not allow printing, or Setting mode (Web version) display. In this case, deselect this setting and change the Setting mode (Web version) settings.

IEEE802.1X Authentication (Wired)

Set whether to use authentication using IEEE802.1X.

Factory default settings: Disable

EAP Authentication Method

Set the EAP authentication method in IEEE802.1X.

Factory default settings: EAP-TLS

EAP User Name

Enter the EAP user name when authenticating.

Password

Enter the EAP password for authentication.

Server Authentication

Set whether to use server authentication.

Factory default settings: Enable

EAP Timeout

Set the EAP timeout.

Factory default settings: 10 seconds

Number of EAP Retries

Set the number of times to re-access the EAP when communication fails.

Factory default settings: 3 Time(s)

Certificate Status

Shows the status of the certificate required for transmission using IEEE802.1X. To install a certificate, click [Install].

CA Certificate Status

Shows the status of the CA certificate required for transmission using IEEE802.1X. To install a certificate, click [Install].



Services Settings

Make settings for SMTP, Kerberos Authentication Settings, mDNS, SNMP, and SMB.



When settings are changed, the changes will take effect after the machine is restarted. For details on restarting this machine, see "[TURNING ON THE POWER \(page 1-6\)](#)".

SMTP

SMTP Settings

Primary Server

Enter the IP address or the host name of the primary SMTP server.

Secondary Server

Enter the IP address or the host name of the secondary SMTP server.

Port Number

Enter a port number.

Factory default settings: 25

Timeout

Enter a timeout. This value is used for connection to the SMTP server and for data transmission according to the e-mail system specifications.

Factory default settings: 20 seconds

Sender Address

Enter the sender's address

Enable SSL/TLS

If the SSL/TLS is enabled, the SMTP-over-TLS encryption communication can be used by STARTTLS command. This requires the server to support the STARTTLS command.

To allow SSL/TLS communication, set the "Port Number" to the same port number as the normal SMTP.

Factory default settings: Disable

SMTP Authentication

Specify the authentication method for SMTP.

Factory default settings: Disable

User Name

Enter the user name.

Password

Enter the password.

To change the password, set [Change Password] to .

POP before SMTP

If is set, you are authenticated to the POP server before using the SMTP communication.

- POP3 Server: Enter the IP address or the host name of the secondary SMTP server.

Factory default settings: Disable

- Port Number: Enter the POP3 port number for POP before SMTP communication. The default setting is port 110.

Factory default settings: 110

- POP Authentication: If is set, the authentication protocol (including APOP) is used for authentication to the POP3 server.

Factory default settings: Disable

- User Name: Enter the user name for POP before SMTP communication.

- Password: Enter the password required for POP before SMTP communication. To change the password, set [Change Password] to .

Factory default settings: Disable

Connection Test

Tap the [Execute] button to test the connection to the SMTP server.



Kerberos

Kerberos Authentication Settings

KDC Server

Enter the IP address or host name of the Kerberos authentication server.

Port Number

Enter the port number of the Kerberos authentication server.

Factory default settings: 88

Realm

Enter the Kerberos realm.

mDNS

mDNS Settings

mDNS

Set this option to use the mDNS settings.

Factory default settings: Enable

Service Name

Enter a service name.

Domain Name

Display the domain name.

Highest Priority Service

Select a service you use with the priority.

Factory default settings: LPD

SNMP

SNMP v1 Settings

SNMP v1 Settings

Set this option to use the SNMPv1 settings.

Factory default settings: Enable

Access Method

Set an access method.

Factory default settings: Read-write Access

GET Community

Enter the GET community name to fetch the device information using SNMP.

Factory default settings: public

SET Community

Enter the SET community name required for SNMP setting.

Factory default settings: private

Change SET Community

To change the SET community, set .

Factory default settings: Disable

TRAP Community

Enter the community name to be used for the SNMP TRAP sent from the device.

Factory default settings: public

TRAP Target Address

Enter the IP address of the destination computer for SNMP TRAP communication.



SNMP v3 Settings

SNMP v3 Settings

Set this option to use the SNMPv3 settings.

Factory default settings: Disable

User Name

Enter the user name.

Authentication Key

Enter the authentication key.

Factory default settings: Algorithm: MD5

Privacy Key

Enter the privacy key.

Factory default settings: Algorithm: DES

Context Name

Display the context name.



Print Port Settings

LPD

LPD Settings

LPD

Set this option to use LPD.

Factory default settings: Enable

Timeout

Enter a timeout.

Factory default settings: 90 seconds

Use Banner

Set this option to use the banner.

Factory default settings: Disable

RAW

Raw Print Settings

Raw Print

Set this option to use RAW printing.

Factory default settings: Enable

Port Number

Enter a port number.

Factory default settings: 9100

Timeout

Enter a timeout.

Factory default settings: 90 seconds

WSD

WSD Settings

WSD Print

Set this option to use WSD printing.

Factory default settings: Disable

Use Multicast Discovery

Set this option to use multicast discovery.

Factory default settings: Enable



LDAP Settings

The following explains the LDAP settings.

When you tap the [Store] key, the LDAP settings are updated with your entries.

The default address book is set to .

Add

To add a global address book, tap the Add key.

Delete

To delete the global address book, select the item and tap the [Delete] key.

Settings

Setting item	Settings
Name	Enter the address book name.
Search Root	Enters the search defaults to search for a specific area of the LDAP directory information tree. Example: o = ABC, ou = NY, cn = Everyone Entries must be separated from each other by semicolons or commas.
LDAP Server	Enter the IP address or host name of the LDAP server.
Server Type	Select the Default or Custom from the service type list. Factory default settings: Default
User Identity Attribute	Set the user ID property. Factory default settings: uid
Search Attribute	Set the LDAP search property. Factory default settings: cn
Obtain E-mail address from	Set the e-mail address search. Factory default settings: mail
Obtain Fax number from	Set the fax number search. Factory default settings: facsimileTelephoneNumber
Pages Limit Group	Set the Storing Page Limit Group Search. Factory default settings: pagelimit
Authority Group	Set the Storing Authority Group Search. Factory default settings: authority
Card ID	Sets the card ID search. Factory default settings: cardid
Port Number	Enter a port number. Factory default settings: 389
Timeout	Enter a timeout. Factory default settings: 5 seconds
User Name	Enter the account name for LDAP setting.
Password	Enter the password. To change the password, set [Change Password] to <input checked="" type="checkbox"/> .
Authentication Type	Select the authentication server from the drop-down list. Factory default settings: Anonymous
Bind Prefix	Set the Bind prefix. Factory default settings: uid



Setting item	Settings
Server Usage	Set the server application. Set the address book and user authentication. Factory default settings: All EnabledLPD
To Be Used as Default	Specify whether or not to use the selected global address as default. Factory default settings: Disable
Enable SSL/TLS	Encrypted communication by SSL/TLS is performed. Factory default settings: Disable
Connection Test	Tap the [Execute] button, and the connection test is executed and its result is displayed.



When settings are changed, the changes will take effect after the machine is restarted. To restart the machine, see "[TURNING ON THE POWER \(page 1-6\)](#)".

Proxy Setting

Access the network through a proxy server.

Settings

Item	Description
Proxy Setting	Access the network through a proxy server. Factory default settings: Disable
Proxy Server Address	Enter the proxy server address.
User Name	Enter a user name to access the proxy server.
Password	Enter a password to allow access to the proxy server.
Port Number	Enter the proxy server port number. Factory default settings: 8080



Wireless Settings

Used to enable or disable the wireless LAN and show the status of wireless LAN.

Connection Type

Switch between [Wired Only], [Wireless (Infrastructure Mode)] or [Wired+Wireless (Direct Connection)] according to the network connection status.

Factory default settings: Wired+Wireless (Direct Connection)

When wired + wireless (Direct connection) selected

This can be set when "Connection Type" is "Wired + Wireless (Direct Connection)" and "Access Point Mode" is enabled.

Factory default settings: Access Point Mode

Current Setting

Shows settings, such as the SSID of a wireless LAN and security type. If the wireless LAN is disabled, "--" appears.

Current Wireless Status

This shows reception levels (Max. 100) of the wireless LAN and IP addresses.

Show Wireless Setting Screen

Click the [Setup] button.

In the Wireless Setting screen, you can configure the SSID of a wireless LAN, Security Type, Encry., and Security Key.

Initialize Wireless Settings

Click the [Initialize] button.

The settings for SSID, Security Type, Encry., and Security Key are initialized.

Wireless Setting (infrastructure mode)

If you click the [Setup] button when [Switch Connection Type] is set to [Wireless (Infrastructure Mode)], the Infrastructure Mode Wireless Setting screen is displayed.

Configure the SSID of a wireless LAN, Security Type, Encry., and Security Key. Clicking the [Submit] button stores the settings.

Access Point Search

Click this to search access points. When the search results are displayed, select the access point to use and click [OK]. [SSID], [Security Type], and [Encry.] are automatically applied.

SSID

Enter the SSID.

Security Type

Select a security type.

Factory default settings: None

Encry.

Select an encryption type.

Factory default settings: None

Security Key

Enter a security key.



Security Type	Security Key
WEP	WEP64bit: 5 characters or 10-digit hexadecimal number
WPA/WPA2-mixed Personal	WEP128bit: 13 characters or 26-digit hexadecimal number
WPA/WPA2-mixed Enterprise	WPA/WPA2/WPA3: 8 to 63 characters or 64-digit hexadecimal number
WPA2 Personal	
WPA2 Enterprise	
WPA2/WPA3-mixed Personal	
WPA3 Personal	
WPA2/WPA3-mixed Enterprise	
WPA3 Enterprise	

Show Security Key

If it is set to ON, the security key appears.

Factory default settings: Disable

Wireless Setting (Direct Connection)

If the [Setup] button is clicked while [Connection Type] is set to [Wired+Wireless (Direct Connection)], the Wireless Settings (Direct Connection) screen is displayed.

When "Access Point Mode" is selected in "Wired+Wireless (Direct Connection)", the access point mode can be set.

Configure the SSID of a wireless LAN, Security Type, Encry., and Security Key.

Clicking the [Submit] button stores the settings.

Frequency Band

Set the frequency band used for a wireless LAN.

Factory default settings: No Sound

SSID

Enter the SSID.

Security Type

Select a security type.

Factory default settings: WPA/WPA2-mixed Personal

Encry.

Select an encryption type.

Factory default settings: AES

Security Key

Enter a security key.

Security Type	Security Key
WEP	WEP64bit: 5 characters or 10-digit hexadecimal number
WPA/WPA2-mixed Personal	WEP128bit: 13 characters or 26-digit hexadecimal number
WPA2 Personal	WPA/WPA2/WPA3: 8 to 63 characters or 64-digit hexadecimal number
WPA2/WPA3-mixed Personal	
WPA3 Personal	
WPA2/WPA3-mixed Enterprise	
WPA3 Enterprise	

Show Security Key

When enabled, the security key will be displayed.

Factory default settings: Disable

Device IP Address

Enter the IP address.



Channel to Be Used

Select the channel to be used in wireless LAN.

Factory default settings: When the frequency band is 2.4GHz: 1, when the frequency band is 5GHz: 36

IP Address Distribution Range Setting

Configure the range to be used the IP address.

Factory default settings: Start IP Address:11, End IP Address:15

Lease Period

Set the validity period of the IP address assigned by DHCP.

Factory default settings: 15 minutes



Easy Connection Setting

Set when using Easy Connection.

QR code

You can install the dedicated application on the mobile device in advance, scan the displayed QR code, send the connection settings to the mobile device, and register it.

Factory default settings: Enable

Destination

Set the connection destination to connect to and the connection destination to be registered in the QR code.

To connect to this machine, select [Connect with the machine]. The information required when connecting to this machine is registered in the application.

To select a connection destination other than this machine, select [Connect with the following access point].

When setting manually, obtain the network information of the connection destination in advance.

If you select [Connect with the following access point], make the following settings.

Factory default settings: Connect with the machine



Set [Connection Type] in the [Wireless Settings] to [Access Point Mode] to connect with the machine.

Access Point Search

Click this to search access points. When the search results are displayed, select the access point to use and click [OK]. [SSID], [Security Type], and [Encry.] are automatically applied.

Name

Enter the name of the connection destination.

SSID

Enter the SSID.

Security Type

Select a security type.

Factory default settings: WPA2 Personal

Encry.

Select an encryption type.

Factory default settings: AES

Security Key

Enter a security key.

Security Type	Security Key
WEP	WEP64bit: WEP64bit: 5 characters or 10-digit hexadecimal number
WPA/WPA2-mixed Personal	WEP128bit: 13 characters or 26-digit hexadecimal number
WPA2 Personal	WPA/WPA2/WPA3: 8 to 63 characters or 64-digit hexadecimal number
WPA2/WPA3-mixed Personal	
WPA3 Personal	

Show Security Key

When enabled, the security key will be displayed.

Factory default settings: Disable



Device Web Page Setting

The following explains the access settings to Setting mode (Web version).

HTTP Access Settings

Number of Users who can Log-in at the Same Time

Enter a number of users who can access Setting mode (Web version) simultaneously.

Factory default settings: 32

Auto Logout Time

Enter a time to automatically log out when no communication continues with the machine.

Factory default settings: 60 minutes



When settings are changed, the changes will take effect after the machine is restarted. For details on restarting this machine, see "[TURNING ON THE POWER \(page 1-6\)](#)".

View Login User

The user or users who have logged in this machine are displayed.

Current Login User

Shows the currently logged in user and IP address.

Logout All Users

The current login users are logged out.



When settings are changed, the changes will take effect after the machine is restarted. For details on restarting this machine, see "[TURNING ON THE POWER \(page 1-6\)](#)".



Security Settings



- When settings are changed, the changes will take effect after the machine is restarted. For details on restarting this machine, see "[TURNING ON THE POWER \(page 1-6\)](#)".
- All items except for the Password Setting, Enable Filter and Initialize Data in Machine are available in the system settings of the Web page.
For Security Settings on the operation panel, see the following "[THE SETTING MODE LIST OF THE OPERATION PANEL \(page 5-8\)](#)".

Password Change

The administrator password and user password can be changed.

When you change the password, be sure to remember the new password.

(It is recommended that you periodically change the administrator password.)

- Enter a password consisting of 1 to 255 characters (when the administrator password is changed: 5 to 255). Your setting is made valid only when the machine is turned On again.

The user-level authentication password is required to add, edit or delete the destination. When you log on, enter "users" as the user name. Then, enter the user password that you have registered with this option.

The administrator-level authentication password is required to select all settings and the same functions as those available with the user-level password. When you log on, enter "admin" as the user name. Then, enter the administrator password that you have registered with this option.

- If you tap the [Store] key without entering a password, the previously set value is assumed. Password protection is enabled by default.

Restrict Device Web Page Access Via Password

Use this setting to display the login screen and require login in order to access the Web server.

Administrator Password

Changes the setting of the administrator password.

When setting a password, make sure that it contains at least one or more numbers, uppercase and lowercase letters of the alphabet, and symbols.

The characters that can be entered are as follows.

- Numbers: 0 to 9
- Upper case alphabet: A to Z
- Lower case alphabet: a to z
- Symbols: ! @ # \$ % ^ & * () " ' + , - . / : ; < = > ? [\] _ ` { | } ~ and spaces

User Password

Changes the setting of the user password.

When setting a password, make sure that it contains at least one or more numbers, uppercase and lowercase letters of the alphabet, and symbols.

The characters that can be entered are as follows.

- Numbers: 0 to 9
- Upper case alphabet: A to Z
- Lower case alphabet: a to z
- Symbols: ! @ # \$ % ^ & * () " ' + , - . / : ; < = > ? [\] _ ` { | } ~ and spaces



Password Setting

The administrator password and user password can be changed.

When you change the password, be sure to remember the new password.

(It is recommended that you periodically change the administrator password.)

- Enter a password consisting of 5 to 255 characters and tap the [Store] key. Your setting is made valid only when the machine is turned on again.

The administrator-level authentication password is required to select all settings and the same functions as those available with the user-level password. When you log on, enter "admin" as the user name. Then, enter the administrator password that you have registered with this option.



This setting can only be set on the operation panel.

The characters that can be entered are as follows.

- Numbers: 0 to 9
- Upper case alphabet: A to Z
- Lower case alphabet: a to z
- Symbols: ! @ # \$ % ^ & * () " ' + , - . / : ; < = > ? [\] _ ` { | } ~ and spaces

Condition Settings

Restrict Print Jobs other than the current Print-Hold Job

You can select settings to cancel print jobs that are not print hold jobs, or force all print jobs to be held.

When [Restrict Print Jobs other than the current Print-Hold Job] is turned ON, the settings below can be selected.

Item	Description
Force Retention	This setting forcibly sets all print jobs as print hold jobs, even jobs for which print hold is not selected.
Disable Job	Prohibit all print jobs other than print hold jobs.

Factory default settings: Force Retention

Automatic Deletion of Suspended Print Jobs

If the print job is interrupted due to a paper jam, etc., the job is automatically deleted after the time set in "Time until Suspended Print Jobs are Automatically Deleted" has elapsed.

Factory default settings: Disable

Time until Suspended Print Jobs are Automatically Deleted

Set the time after stopping a job to automatically deleting the job.

Factory default settings: 5 minutes

Clear All Data When the Jobs are Completed

Completely deletes the data from the memory of the machine when the job is completed.

Factory default settings: Disable

Reject Requests from External Sites

You can reject the request from external sites.

Factory default settings: Enabled



Mandatory Access Control

Set whether to perform forced access control. Once set, access to all files inside the machine will be forcibly controlled.

Factory default settings: Disable

Port Control

For the various major ports used in the system, set the prohibition/permission and port number, and tap the [Store] key. The ports that can be set are as follows.

Server Port	Factory default settings		Client Port	Factory default settings	
	Port Control	Enable / Disable		Port Control	Enable / Disable
HTTP	80	Enabled	HTTP		Enabled
HTTPS	443	Enabled	HTTPS		Enabled
FTP Print	21	Enabled	FTP		Enabled
Raw Print	9100	Enabled	FTPS		Enabled
LPD	515	Enabled	SMTP		Enabled
IPP	631	Enabled	SMTP-SSL/TLS		Enabled
IPP-SSL/TLS	443	Disabled	POP3		Enabled
Remote Operation Panel	5900	Enabled	SNMP-TRAP	162	Enabled
SNMPD	161	Enabled	Notify Job End		Enabled
WSD		Enabled	LDAP		Enabled
			LDAP-SSL/TLS		Enabled
			mDNS		Enabled
			syslog	514	Enabled
			syslog-SSL/TLS	6514	Enabled

Filter Setting

You can set the filter by an IP or MAC address to prevent an unauthorized access to the machine via a network.

Set the IP or MAC address filter and tap the [Store] key.

Factory default settings: Disable

IP Address Filter Settings

This option sets an IP address.

You can specify whether to allow or prohibit access to the machine from the IP address you set.

Factory default settings: Enable

MAC Address Filter Settings

This option sets a MAC address.

It allows access to the machine from the MAC address you set.



Enable Filter

Enable the settings made in [System Settings] → [Security Settings] → [Filter Setting] on the web page.

Factory default settings: Disable



This setting is for this machine only.

SSL/TLS Settings

SSL/TLS can be used for data transmission over a network.

SSL/TLS is a protocol that enables the encryption of information communicated over a network. Encrypting data makes it possible to transmit and receive sensitive information safely.

Data encryption can be set by the following protocols.

Setting of SSL/TLS

Server Port

- HTTPS: Apply SSL/TLS encryption to HTTP communication.

Factory default settings: Enable

- IPP-SSL/TLS: Apply SSL/TLS encryption to IPP communication.

Factory default settings: Disable

- Redirect HTTP to HTTPS in Device Web Page Access: When this setting is enabled, all communication that attempts to access the machine by HTTP is redirected to HTTPS.

Factory default settings: Disable

Client Port

- HTTPS:
Apply SSL/TLS encryption to HTTP communication.

Factory default settings: Enable

- FTPS:
Apply FTP encryption to HTTP communication.

Factory default settings: Enable

- SMTP-SSL/TLS:
Apply SMTP encryption to HTTP communication.

Factory default settings: Enable

- LDAP-SSL/TLS:
Apply SSL/TLS encryption to communication using LDAP.

Factory default settings: Enable

- syslog-SSL/TLS:
Apply SSL/TLS encryption when sending audit logs.

Factory default settings: Enable

- Verify Signature of Server Certificate of the Other Party:
Validate the certificate of the server you are communicating with.

Factory default settings: Disable



Even if "Verify Signature of Server Certificate of the Other Party" is enabled, when "Global Address Search" or "My Address Search" is performed only when the search destination is an LDAP server, the server certificate of the destination is not validated.

- TLS1.2: Use only TLS1.2.

Factory default settings: Enable

- TLS1.3: Use only TLS1.3.

Factory default settings: Enable



Device Certificate

Certificate Status

Displays the status of the certificate required for SSL/TLS communication. Click the [Select] key to install the certificate.

Certificate Information

If the device certificate is installed, click the [Show] key to display the certificate information.

Select Device Certificate

Click the [Select] key to display the device certificates that have already been registered. Select from them.



IPsec Settings

IPsec can be used for data transmission/reception on a network.

When IPsec is used, data can be sent and received safely without the need to configure settings for IP packet encryption in a Web browser or other higher-level application.

When enabling this settings, take the following notes.

- It may take some time to reflect on the machine settings, and you cannot connect to the machine during this time.
- If the Setting mode (Web version) settings are not correctly selected, connection to the machine may not be allowed, or the settings may not allow printing, or Setting mode (Web version) display. In this case, deselect this setting and change the System Settings (on Web pages).

Condition Settings

IPsec Settings

Sets whether to use IPsec for transmission.

Factory default settings: Disable

IKEv1 Settings

Pre-Shared Key

Enter the Pre-Shared Key to be used for IKEv1.

SA Lifetime (time)

Set the SA lifetime.

Factory default settings: 28800 seconds

IKE Lifetime

Set the IKE lifetime.

Factory default settings: 30 seconds

IPsec Rules

The registered IPsec rules are displayed.

To add a new rule, click the [Add] key.

To delete a rule, select the rule you want to delete and click the [Delete] key.

IPsec Rule Registration

Rule Name

Enter a name for the IPsec rule.

Priority

Set the priority level.

Factory default settings: 1

Select the Rule Name to be the Registration Model

If there is a previously registered rule that is similar to the rule you want to create, you can create the new rule based on the registered rule.

Device Address

Set the type of IP address to be used on the machine and the port number (for IPv6, set the port number / prefix length).

Client Address

Set the destination IP address type and port number (for IPv6, set the port number / prefix length).

Protocol

Set the protocol to be used.

Factory default settings: TCP

Filter Mode

Configure settings for the authentication method used for IPsec.

Factory default settings: IPsec



IPsec Encryption

Configure settings for the authentication method used for IPsec.

ESP

Select to use ESP authentication.

Factory default settings: Enable

Allow Communication not using ESP

Specify whether or not communication that does not use ESP is allowed.

Factory default settings: Enable

AH

Select to use AH authentication.

Factory default settings: Disable

Allow Communication not using AH

Specify whether or not communication that does not use AH is allowed.

Factory default settings: Disable



Audit Log

Logs are created and saved for various events relating to security functions and settings.

Audit logs are created and saved in English. However, setting values such as filenames which are input from external sources are saved as-is.

Audit logs which have been saved in the internal memory can be exported by an administrator to a PC as TSV files.

You can select either the internal memory or an external server as the destination for saving audit logs.



When the space for saving audit logs internally becomes full, the logs are overwritten starting from the oldest ones.

Audit Log

"Audit Log" can be carried out as follows.

In the Web page, select [System Settings] → [Security Settings] → [Audit Log]

Select "Security Control", "Storage/Send Settings" or "Save/Delete Audit Log".

Factory default settings: Disable

Storage/Send Settings

"Storage/Send Settings" can be carried as follows.

In the Web page, select [System Settings] → [Security Settings] → [Audit Log] → [Storage/Send Settings]

Then make the storage and transmission settings.

Factory default settings: Server Send:Disable, Enable SSL/TLS:Disable, Port Number:514, Port Number (Use SSL/TLS):6514

Save/Delete Audit Log

"Save/Delete Audit Log" can be carried out as follows.

In the Web page, select [System Settings] → [Security Settings] → [Audit Log] → [Save/Delete Audit Log]

Select "Save Audit Log" or "Delete Audit Log".



- "Save Audit Log" can only be carried out from the Web page.
- It will not be displayed if audit logging is disabled or storage is disabled.



Audit Log specifications

If the audit log is saved to an external server, the audit log is temporarily saved in the buffer area reserved in the internal memory until the transmission to the external server is successful.

- Audit logs that are successfully sent to the external server are cleared from the buffer area.
- If the transmission to the external server fails, a warning message will be displayed on the operation panel and the screen of the Web page, and the transmission will be periodically retransmitted to the external server until the transmission is successful.

The audit events and information stored in the audit log are as shown in the following table.



If the power of this machine is turned off by a method other than the procedure described in the user's manual or due to a power failure, the [End Audit] event may not be recorded. Make sure to turn off the power of this machine according to the correct procedure. We also recommend using an uninterruptible power supply (UPS) in the event of an unforeseen event such as a power outage.

Event name	Date & Time*1	Operation I/F*2	Login Name	Result*3	Additional Information
Audit Start	Yes	N/A	N/A	Yes	Reasons for starting Other: security erase
Audit End	Yes	N/A	N/A	Yes	N/A
Job Completion	Yes	Yes	Job owner (SYSTEM)	Yes	Finished job name
I&A Success	Yes	Yes	The string entered as your login name	N/A	IP address of the login source 127.0.0.1 for the operation panel
I&A Failure	Yes	Yes	The string entered as the login name	N/A	IP address of the login source 127.0.0.1 for the operation panel
Add User	Yes	Yes	User who added	Yes	Added login name
Login Terminated	Yes	Yes	The string entered as your login name	N/A	Active termination/ Timeout
Change Password	Yes	Yes	The user who made the change	Yes	Login name of the user whose password has been changed
Change Login Name	Yes	Yes	The user who made the change	Yes	Login name after change
Delete user	Yes	Yes	User who deleted	Yes	Deleted login name (ALL if all users are deleted)
Add Auth Group	Yes	Yes	User who added	Yes	Added authority group name
Change Role	Yes	Yes	The user who made the change	Yes	• Login name of the user whose authority group has been changed • Changed authority group name
Change Auth Group Setting	Yes	Yes	The user who made the change	Yes	Privilege changed settings Group Name
Add Page Limit Group	Yes	Yes	Users with additional functions	Yes	Name of the additional page limit group
Delete Page Limit Group	Yes	Yes	Users whose functions are deleted	Yes	Name of the deleted page limit group
Change Page Limit Group Setting	Yes	Yes	Users who have changed the settings	Yes	Name of the changed page limit group
Change Time Setting	Yes	Yes	The user who made the change	Yes	N/A



Event name	Date & Time* ¹	Operation I/F* ²	Login Name	Result* ³	Additional Information
Change Setting	Yes	Yes	User who made the change ("ByPolicy" when applying AD policy)	Yes	<ul style="list-style-type: none"> Setting items whose setting values have been changed Set value after change
Firm Recovery	Yes	N/A	N/A	Yes	<ul style="list-style-type: none"> Firmware name Firmware version after recovery
Exec Rejection	Yes	N/A	N/A	Yes	Distinguished name of firmware or embedded OSA app
TLS, IPsec communication failure (Comm Failure) * Communication partner is other than the audit server	Yes	N/A	Users who are communicating	N/A	<ul style="list-style-type: none"> IP address of the communication starter IP address of the communication partner Communication direction Reason for failure
Modify AddrBook	Yes	Yes	User who updated	Yes	<ul style="list-style-type: none"> At the time of addition: Internal management ID and destination name of the added entry When deleting / changing: Internal management ID of deleted / changed entry
Firm Update	Yes	Yes	User who updated	Yes	<ul style="list-style-type: none"> Firmware name Firmware version before update Firmware version after update
Release Denied Addr	Yes	Yes	Users who have been released	Yes	Released IP address
Send External Dest	Yes	Yes	Users who sent	Yes	Destination e-mail address/IP address/SMB folder path
Web Push Print	Yes	Yes	Users of the function	Yes	IP address from which the file was downloaded
Change Service Setting	Yes	Yes	Users who have changed the settings	Yes	Changed settings and their values
Switch to service mode	Yes	Yes	Service	Yes	N/A
Running in service mode	Yes	Yes	Service	Yes	Changed setting values

*1 The date and time when the event occurred is displayed in the extended format of ISO 8601.

*2 Either Ope/Web/sNet is displayed as the operation interface. However, if it is "N / A" in the table, it will be written as "N / A".

*3 Either Success / Failure will be displayed as the result of the event.



Certificate Management

Device Certificate Management

Import

Import the certificate/private key.

Export

Export the certificate/private key.

Certificate Information

Shows the status of the certificate.

Creation of Certificate and Private Key

Common Name (Required)

Enter the name to be used.

Organization

Enter the name of the organization.

Organizational Unit

Enter the name of the unit within the organization.

City/Locality

Enter the city or locality.

State/Province

Enter the state or province.

Country/Region (Required)

Enter the country code.

Certificate Start Date

Enter the start date and time for the certificate.

Certificate Validity Period

Enter the expiration date of the certificate.

Certificate Information

Enter the Certificate Information.



Certificate Signing Request (CSR) Management

Installation of Certificate

Install the certificate.

Certificate Information

Shows the status of the certificate.

Make of Certificate Signing Request(CSR)

Common Name (Required)

Enter the name to be used.

Organization

Enter the name of the organization.

Organizational Unit

Enter the name of the unit within the organization.

City/Locality

Enter the city or locality.

State/Province

Enter the state or province.

Country/Region (Required)

Enter the country code.

Key Length of Certificate

Specify the key length of the certificate.

Factory default settings: 1024bit

CA Certificate Management

Import

Import the certificate.

Certificate Information

Shows the status of the certificate.

Initialize Data in Machine

Press the [OK] key to initialise the following personal information and data in the machine.

- All user information data
- All job data in this machine
- Log information
- Data and areas for internal processing
- Data in the machine registered/stored by the user



This setting can only be set on the operation panel.



Energy Save



All items except for the Auto Power Shut-Off Mode and Preheat Mode Setting are available in the system settings of the Web page.

For Security Settings on the operation panel, see the following "[THE SETTING MODE LIST OF THE OPERATION PANEL \(page 5-8\)](#)".

Eco Setting

The machine's power consumption can be reduced by Eco Mode setting. Although each function setting can be changed separately, the machine has the "Custom" and "Eco Mode" to allow simultaneous changing of settings.

Preheat Mode Setting

The time until the preheating mode works is 1 to 60 minutes in 1-minute units.

Preheat Mode will activate when the set duration of time elapses after printing ends and no further operations are performed. This function reduces your power costs, and at the same time helps conserve natural resources and reduce pollution.

Select the time that best suits the needs of your workplace.

The panel display can be turned Off in the Preheat mode.

Factory default settings: 1 minutes



- Preheat mode cannot be disabled.
- This item is located under "Energy Save" in the system settings from the operation panel.

Auto Power Shut-Off Mode

Specify the time to transition to Auto Power Shut-Off Mode.

Specify this setting for remote jobs and for all other jobs.

Factory default settings: Remote Job: Earliest, Other Job: 11 min.



This item is located under "Energy Save" in the system settings from the operation panel.

Sleep Mode Power Level

Low Power: The machine switches to the power saving mode, but it takes some time to recover.

Fast Wake Up: Compared with Low Power, the power value rises by a certain degree, but it results in faster recovery.

Factory default settings: Low Power

Eco Fusing Setting

This function allows the fusing unit of the machine to be operated with the fusing unit of the machine turned off during operations that do not require printing on the machine.

Factory default settings: Enable



Toner Save Mode

This mode is used to reduce toner consumption.

Toner consumption can be set for print jobs in “Printer.”

Toner consumption can be selected from three levels.

- Toner Save1 (Toner Consumption: Much)
- Toner Save2 (Toner Consumption: Middle)
- Toner Save3 (Toner Consumption: Little)

Factory default settings: All Invalid



Items may not be displayed depending on country and region.



System Control



All items except for the Reset Settings and Firmware Update Settings are available in the system settings of the Web page. For Security Settings on the operation panel, see the following "[THE SETTING MODE LIST OF THE OPERATION PANEL \(page 5-8\)](#)".

Storage Backup

Address book information and user information stored in the machine can be saved to and retrieved from a USB memory device.

To use the machine to manipulate a file, first insert the USB memory device in the machine. If you need to select settings on the Web page, use your computer to manipulate the file.

Export Settings

Exports data.

Factory default settings: All Invalid

Import Settings

Imports data into the machine.

Device Cloning

Saves the machine setting information in XML format and copies the information to another machine.

This function saves you the trouble of repeatedly configuring the same settings in multiple machines.

To use the machine to manipulate a file, first insert the USB memory device in the machine. If you need to select settings on the Web page, use your computer to manipulate the file.

Export Settings

Exports data.

Factory default settings: All Invalid

Import Settings

Imports data into the machine.



- For models that can be imported, please contact the store where you purchased the product.
- The following data is not copied when device cloning is performed:
 - Count and device status display items.
 - IP address of the machine, device name, administrator password, sender names for image send, and other information that is specific to the machine.
 - Adjustment values unique to each hardware, such as screen contrast.

Reset Settings



This setting can only be set on the operation panel.

Reset the NIC

This returns all "Network Settings" to the factory default settings.



E-mail Alert and Status

Status Message

Selects the Standard E-mail Status function or Advanced E-mail Status function settings.

The E-mail Status function can periodically transmit the machine status information to the stored address.

Standard

Sets the E-mail status address list 1, E-mail status address list 2, and E-mail status dealer address list separately.

Item	Description
E-mail Address	Enter the destination e-mail address for transmission of machine status information. When you enter multiple addresses, separate them by a semicolon (;) or a comma (,).
Send Now	When tapped, the status message is sent to the destination of the e-mail address list.
Send on Schedule 1	If checked as <input checked="" type="checkbox"/> , an E-mail is sent periodically according to the preset schedule.
Send on Schedule 2	If checked as <input checked="" type="checkbox"/> , an E-mail is sent periodically according to the preset schedule.
Time Schedule	Select a schedule to send E-mails.

Advanced

Status Message by E-mail Request Setup

Item	Description
Status Message by E-mail Request	Status Message by E-mail Request can be enabled. Factory default settings: Disable
POP3 Server	Enter the IP address or host name of the POP3 server.
Port Number	Enter the port number of the POP3 server. Factory default settings: 110
Pop Authentication	Specify the authentication method for POP. Factory default settings: Disable
User Name	Enter the user name. The special user account is required for bi-directional e-mail status transmission.
Password	Enter the password. To change the password, set [Change Password] to <input checked="" type="checkbox"/> .
Check Interval	Enter the polling interval for the POP3 server. The default setting is five minutes.
Connection Test	Tap the [Execute] button to test the connection to the POP3 server.

Alerts Message

Selects the E-mail Alert function settings.

The E-mail Alert function can report a trouble of the machine to the administrator or dealer using e-mail.

Sets the E-mail Alert Message List 1, E-mail Alert Message List 2, and Dealer E-mail Alert Message List separately.

E-mail Address

Enter the destination E-mail address for alert message transmission. You can enter multiple addresses by separating them by a semicolon or comma.

Example: aaa@xxxxx.□□□; bbb@xxxxx.□□□

A report will be sent by e-mail in the following situations. You can individually set the status for sending alerts for each address list. When the unit becomes the target of the alert, an email will be sent to the set address.

Jam, Toner Low, Toner Empty, Paper Empty, Service Request, PM Request, Waste Toner Almost Full, Waste Toner Full, Job Log Full, Security Alert

Factory default settings: All enable except security alerts



SMTP Settings

Use SMTP Server in [Network Settings].

Set the SMTP server settings used for e-mail status and E-mail alert to the same settings as [SMTP \(page 5-56\)](#) of network setting.

SMTP Settings

Use this setting when not using "Use SMTP Server in [Network Settings].".

Primary Server

Enter the IP address or the host name of the primary SMTP server.

Secondary Server

Enter the IP address or the host name of the secondary SMTP server.

Port Number

Enter a port number.

Factory default settings: 25

Timeout

Enter a timeout. This value is used for connection to the SMTP server and for data transmission according to the e-mail system specifications.

Factory default settings: 20 seconds

Sender Address

Enter the sender's address

Enable SSL/TLS

If the SSL/TLS is enabled, the SMTP-over-TLS encryption communication can be used by STARTTLS command.

This requires the server to support the STARTTLS command.

To allow SSL/TLS communication, set the "Port Number" to the same port number as the normal SMTP.

Factory default settings: Disable

SMTP Authentication

Specify the authentication method for SMTP.

Factory default settings: Disable

User Name

Enter the user name.

Password

Enter the password.

To change the password, set [Change Password] to .

POP before SMTP

If is set, you are authenticated to the POP server before using the SMTP communication.

- POP3 Server: Enter the IP address or the host name of the secondary SMTP server.

Factory default settings: Disable

- Port Number: Enter the POP3 port number for POP before SMTP communication. The default setting is port 110.

Factory default settings: 110

- POP Authentication: If is set, the authentication protocol (including APOP) is used for authentication to the POP3 server.

Factory default settings: Disable

- User Name: Enter the user name for POP before SMTP communication.

- Password: Enter the password required for POP before SMTP communication. To change the password, set [Change Password] to .

Factory default settings: Disable

Connection Test

Tap the [Execute] button to test the connection to the SMTP server.



Enhanced FSS Settings

This function is for connection to Synappx Manage, a cloud service for device management.



- Use of this function requires the use of this cloud service.
- This setting may not be available in all countries and regions.

Enhanced FSS

Sets whether to enable the Enhanced FSS feature.
Switching this function requires a reboot of the machine.

Factory default settings: Disable

URL

Enter the initial connection URL provided by the tenant of the cloud service.
After the connection is completed, if the URL is registered as blank, the previous connection information will be initialised.

Check Now

Checks for requests to retrieve information from the cloud service or to change the control of the machine.

Firmware Update Settings

The firmware of the machine can be updated via LAN without using a USB memory.
See the data security kit manual for details on settings with the data security kit.
For more information on "Advanced Security Settings", contact your dealer or nearest SHARP Service Department.

Firmware Update

Specify the timing for firmware updates.

Schedule Time of Automatic Mode

Set the time to accept firmware when "Automatic Mode" is selected under "Firmware Update." When "No Specified Time Schedule" is selected, the firmware update will be executed when the firmware is downloaded.



- Before enabling this setting, check the "Terms and Conditions for Firmware Update Service".
- When this setting is set to [Automatic Mode] or [Admin Mode], you agree to the "Terms and Conditions for Firmware Update Service".
- Do not turn off the power to the machine while updating the firmware.
- This item is located under "System Control" in the system settings from the operation panel.



Image Quality Adjustment



This setting can only be set on the operation panel.

Fusing Cleaning

Use this function to clean the machine's fusing unit when dots or other dirt appear on the printed side of the paper. When this function is executed, yellow printed paper is output and the fusing unit is cleaned.



If improvement is not noticed after the first time you use the function, try executing the function again.

Registration Adjustment

If the printed colors shift out of position when you print by Color printing, you can adjust the print position of each color to reduce color shifting.

Tap the [Execute] key.

Color Balance Adjustment

Easy Calibration

Output a test pattern and adjust it manually by checking the printed contents of the test pattern.

Tap the [Execute] key to print out a test pattern.

The test pattern will print a total of 49 gray cells, where X is 1 to 7 and Y is 1 to 7.

Check the gray cell you wish to set and select the X and Y combination on the touch panel.

Tone Adjustments

Adjust the density of cyan, magenta, yellow, and black individually.

Select the desired color and adjust the density in the lightest, middle, and darkest areas of each color.

Reset Settings

Resets the color balance changed by Easy Calibration and Tone Adjustment to the factory default settings.



- If the color is still off after performing Easy Calibration or Tone Adjustments, repeating Easy Calibration or Tone Adjustments once again may improve the color.
 - Before executing Easy Calibration or Tone Adjustments, check to see if the registration adjustment is correct. If the registration adjustment is not correct, perform "Registration Adjustment."
-



Initial Installation Settings

This is a group of settings that are required when you initially install the machine. The initial installation setting items are the same as the regular setting items that have the same name. For information on a setting item, see the explanation of the regular item.



This setting can only be set on the Web page.

Item	Description
Condition Settings	
Name	System Settings - Common Settings - Machine Identification Settings (page 5-43)
Machine Code	
Machine Location	
Clock Adjust	System Settings - Common Settings - Clock Adjust (page 5-43)
Daylight Saving Time Setting	
Preheat Mode Setting	System Settings - Energy Save - Eco Setting (page 5-79)
Auto Power Shut-Off	
Sleep Mode Power Level	
Network Quick Settings	System Settings - Network Settings - Quick Settings (page 5-49)
Tray Settings	System Settings - Common Settings - Paper Settings- Paper Tray Settings (page 5-38)
Product Key	System Settings - Common Settings - Product Key (page 5-44)



SETTING MODES FROM THE OPERATION PANEL OTHER THAN THE SYSTEM SETTINGS

This section describes the setting modes other than the system settings from the operation panel.

LCD Control

Adjusts the brightness of the touch panel.

Total Count

The total number of sheets used by the machine and the total amount used in black-and-white and full color are displayed.

It also displays the amount of toner remaining for each color.

Language Setting

Switches the language displayed on the touch panel.



TROUBLESHOOTING

Q&A

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CHECK LIST	6-2
PRINTING PROBLEMS	6-13
CHECK LIST	6-13

REMOVING MISFEEDS

REMOVING MISFEEDS	6-21
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Q&A

GENERAL PROBLEMS

Have functions been disabled by the administrator?

Some functions may have been disabled in the setting mode. When user authentication is enabled, the functions that you can use may be restricted in your user settings. Check with your administrator.

CHECK LIST

 Problem	 Check	Page
I CAN'T USE A PARTICULAR FUNCTION OR PERIPHERAL DEVICE	Have functions been disabled by the administrator?	6-4
I DON'T KNOW HOW TO CHECK THE TOTAL NUMBER OF PAGES USED	Hold down the [Home Screen] key.	6-4
	You can check in the status of setting mode.	6-4
THE OPERATION PANEL CANNOT BE USED	Is the power indicator lit?	6-4
	Did you just power on the machine?	6-4
	Is the power indicator blinking?	6-4
	Is a cover open or a device separated from the machine?	6-5
	Did login fail three times in a row?	6-5
	Does the message "Call for service. Code:xx-xx*." appear in the touch panel?	6-5
PRINTING IS NOT POSSIBLE OR STOPS DURING A JOB	Is a tray out of paper?	6-5
	Is the machine out of toner?	6-5
	Has a paper misfeed occurred?	6-5
	Is the output tray full?	6-5
	Is the toner collection container full?	6-5
I DON'T KNOW HOW TO PROHIBIT COLOR PRINTING	You can prohibit color printing in User Control.	6-6
	For printing mode, you can set printing to black & white priority in the printer driver settings.	6-6
THE DISPLAYED TRAY PAPER SIZE IS NOT CORRECT	Is the paper size loaded to the bypass tray same with the paper size being displayed in the touch panel?	6-6



? Problem	✓ Check	Page
THE PAPER MISFEEDS	Is tray properly inserted all the way into the machine?	6-6
	Is a torn piece of paper remaining in the machine?	6-6
	Is too much paper loaded in the tray?	6-6
	Are multiple sheets feeding at once?	6-6
	Are you using paper that is not within the specifications?	6-6
	Has paper in the paper tray absorbed moisture?	6-6
	Are the bypass tray guides adjusted to the width of the paper?	6-6
	Are the tray guides adjusted to the width of the paper?	6-7
	Is the feed roller dirty?	6-7
	Is the paper size specified?	6-7
	Did you add paper to the tray?	6-7
	Are you using punched paper?	6-7
	Are you using label sheets that cannot be used?	6-7
	Remove the paper, turn it over, and reload it. Using a different paper type may solve the problem.	6-7
	Have you forgotten to remove the divider plate even though A4 size paper is loaded in tray?	6-7
Did you load an envelope?	6-7	
PAPER DOES NOT FEED FROM THE PAPER TRAY	Is the paper loaded correctly into the paper tray?	6-7
I DON'T KNOW HOW TO CHANGE THE PAPER SIZE	Set the paper size used in each tray in the tray settings.	6-8
THE OUTPUT IS NOTICEABLY CURLED AND UNEVEN	Remove the paper, turn it over, and reload it. Using a different paper type may solve the problem.	6-8
THE IMAGE IS SKEWED ON THE PAPER	Is too much paper loaded into the a tray?	6-8
	Are the tray guides adjusted to the width of the paper?	6-8
	Are the original guides adjusted to the width of the paper?	6-8
LINES APPEAR IN THE IMAGE	Is the bypass feed roller dirty?	6-8
	Did you clean the laser unit?	6-8
SMUDGES APPEAR ON PRINTED OUTPUT	Are you using paper that is not within the specifications?	6-9
	Are you printing on pre-punched paper?	6-9
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Problem	Check	Page
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I CAN'T USE A PARTICULAR FUNCTION OR PERIPHERAL DEVICE



Check

Have functions been disabled by the administrator?



Solution

- Check with your administrator. Some functions may have been disabled in the setting mode. When user authentication is enabled, the functions that you can use may be restricted in your user settings.

I DON'T KNOW HOW TO CHECK THE TOTAL NUMBER OF PAGES USED



Check

Hold down the [Home Screen] key.

You can check in the status of setting mode.



Solution

- When you hold down the [Home Screen] key, a message showing the total page usage and toner level will appear.
- [Total Count] appears in the [Status] of setting mode. You can check the total pages used from this item.

THE OPERATION PANEL CANNOT BE USED



Check

Is the power indicator lit?

Did you just power on the machine?

Is the power indicator blinking?



Solution

- If the power indicator is not lit up, insert the power plug in the power outlet.
- Make sure that the power plug is firmly inserted in the power outlet, turn the power switch on.
- Wait until a message appears indicating that the machine is ready. After the [Power] button is turned on, the machine requires some time to complete warmup operation. During warmup operation, functions can be selected, but a job cannot be run.
- Auto Power Shut-Off mode has activated. To return the machine to normal operation, press the [Power] button. For more information, see [ECO \(page 4-2\)](#).



Check



Solution

Is a cover open or a device separated from the machine?

- Read the message and take appropriate actions.
A warning message will appear when a cover is open or a device is separated from the machine.

Did login fail three times in a row?

- After operation unlocks, log in using the correct user information.
When [A Warning when Login Fails] is enabled in the setting mode and login fails 3 times in a row, a warning will be displayed and user authentication operation will lock for 5 minutes.
(If you do not know your user information, contact your administrator.)
⇒ In the Web page, [System Settings] → [Authentication Settings] → [Default Settings] → [A Warning when Login Fails]

Does the message "Call for service. Code:xx-xx*" appear in the touch panel?

*Letters and numbers appear in xx-xx.

- Turn on the machine power again.
- Make sure that no jobs are running in the fixed display area, and press the [Power] button and then tap [Power Off] key on the touch panel. Wait for a while after the screen turns off, unplug the power plug from the power outlet, wait at least 10 seconds, plug it in the power outlet, and press the [Power] button to turn on the power.
- If the message still appears after switching the power off and on several times, it is likely that a failure has occurred that requires service. In this event, stop using the machine, unplug the power plug, and contact your dealer or nearest SHARP Service Department. (When contacting your dealer or nearest SHARP Service Department, inform them of the displayed error code.)

PRINTING IS NOT POSSIBLE OR STOPS DURING A JOB



Check



Solution

Is a tray out of paper?

- Add paper as instructed by the message in the touch panel.

Is the machine out of toner?

- Replace the toner cartridge.
[REPLACEMENT OF TONER CARTRIDGE \(page 1-25\)](#)

Has a paper misfeed occurred?

- Remove the misfeed as instructed by the message in the touch panel.

Is the output tray full?

- The maximum number of output sheets in the output tray has been reached. Remove the paper from the tray and tap the [Resume Print] key to continue printing.

Is the toner collection container full?

- Replace the toner collection container as instructed by the message in the touch panel.



I DON'T KNOW HOW TO PROHIBIT COLOR PRINTING



Check

You can prohibit color printing in User Control.

For printing mode, you can set printing to black & white priority in the printer driver settings.



Solution

- When user authentication is enabled, you can prohibit color printing for specific users.
 - ⇒ In the Web page → [User Control] → [User Settings] → [User List].
 - ⇒ In the Web page → [User Control] → [Access Control Settings] → [Page Limit Group].
- Although this does not prohibit color printing, you can set the color mode to black & white priority as a means of reducing the number of color pages printed.
 - ⇒ Select [Grayscale] on the [Main] tab of the printer driver.

THE DISPLAYED TRAY PAPER SIZE IS NOT CORRECT



Check

Is the paper size loaded to the bypass tray same with the paper size being displayed in the touch panel?



Solution

- Set the "Tray Settings" setting on the home screen and change to the paper size loaded with the paper size setting of the bypass tray.

THE PAPER MISFEEDS



Check

Is tray properly inserted all the way into the machine?

Is a torn piece of paper remaining in the machine?

Is too much paper loaded in the tray?

Are multiple sheets feeding at once?

Are you using paper that is not within the specifications?

Has paper in the paper tray absorbed moisture?

Are the bypass tray guides adjusted to the width of the paper?



Solution

- Push the tray firmly all the way into the machine.
- Follow the instructions in the touch panel to remove all paper.
- Reload the paper. Load no more than the maximum number of sheets and do not exceed the indicator line.
[LOADING PAPER \(page 1-7\)](#)
- Fan the paper well before loading it.
- Use SHARP-recommended paper.
Using paper that is for other models or special paper that is not supported may result in misfeeds, creases, or smudges.
 - ⇒ - "SUPPLIES" in Start Guide
- For paper that is prohibited or not recommended, see [IMPORTANT POINTS ABOUT PAPER \(page 1-7\)](#).
- If you will not use paper for a long period, remove it from the tray, place it in a plastic bag and store in a cool, dark place, to prevent moisture absorption.
- Adjust the bypass tray guides to the width of the paper so that they slightly contact the sides of the paper.
[LOADING PAPER INTO THE BYPASS TRAY \(page 1-15\)](#)



Check



Solution

Are the tray guides adjusted to the width of the paper?

- Adjust the tray guides to the size of the paper so that they are neither too tight nor too loose.
[TRAY 1 - 2 \(page 1-11\)](#)
[LOADING PAPER INTO THE BYPASS TRAY \(page 1-15\)](#)

Is the feed roller dirty?

- Clean the surface of the feed roller.
[CLEANING THE BYPASS FEED ROLLER \(page 1-24\)](#)
[CLEANING THE FEED ROLLER OF TRAY \(page 1-24\)](#)

Is the paper size specified?

- If you are using a non-standard size, be sure to specify the paper size. If the size of paper loaded into a tray was changed, be sure to check the paper size setting.

Did you add paper to the tray?

- To add paper, press down the pressure plate until it locks, remove any paper remaining in the bypass tray, combine it with the paper to be added, and place in the bypass tray again.
If paper is added without removing the remaining paper, a misfeed may occur. Do not add paper in tray 1 to 2.

Are you using punched paper?

- When using punched paper, set the paper type to punched.

Are you using label sheets that cannot be used?

- Labels without a carrier sheet may stick to the transfer surface and cause a misfeed.

Remove the paper, turn it over, and reload it. Using a different paper type may solve the problem.

- This may improve some states of paper curling.
[LOADING PAPER \(page 1-7\)](#)

Have you forgotten to remove the divider plate even though A4 size paper is loaded in tray?

- When loading A4 size paper in tray, remove divider plate. Move divider plate all the way to the paper feed opening (right side), and pull up.
[TRAY 1 - 2 \(page 1-11\)](#)
- Configure the paper size setting in Paper Tray Settings.
[I DON'T KNOW HOW TO CHANGE THE PAPER SIZE \(page 6-8\)](#)

Did you load an envelope?

- When loading envelopes in tray, do not exceed the indicator line.
- Set the paper type to "Envelope", and for the paper size, specify the paper size you set.

PAPER DOES NOT FEED FROM THE PAPER TRAY



Check



Solution

Is the paper loaded correctly into the paper tray?

- Set the guides to the size of the paper. Reload the paper. Load no more than the maximum number of sheets and do not exceed the indicator line.
[LOADING PAPER \(page 1-7\)](#)



I DON'T KNOW HOW TO CHANGE THE PAPER SIZE

✓ Check

Set the paper size used in each tray in the tray settings.

! Solution

- The "Tray Settings" key can be found in the home screen. Tap this key to display the tray settings screen. Tap the tray whose paper size you want to change, select the paper type, and then tap the [Size] tab. Select the paper size and tap the [OK] key. If you loaded a special size of paper in the bypass tray, tap the [Direct Entry] key after tapping the [Size] tab, enter the paper size manually, and tap the [OK] key.

THE OUTPUT IS NOTICEABLY CURLED AND UNEVEN

✓ Check

Remove the paper, turn it over, and reload it. Using a different paper type may solve the problem.

! Solution

- This may improve some states of paper curling. [LOADING PAPER \(page 1-7\)](#)

THE IMAGE IS SKEWED ON THE PAPER

✓ Check

Is too much paper loaded into the a tray?

Are the tray guides adjusted to the width of the paper?

Are the original guides adjusted to the width of the paper?

! Solution

- Reload the paper. Load no more than the maximum number of sheets and do not exceed the indicator line. The maximum number of sheets varies depending on the paper type setting.
- Adjust the bypass tray guides to the width of the paper so that they slightly contact the sides of the paper.
- Adjust the original guides to the width of the paper.

LINES APPEAR IN THE IMAGE

✓ Check

Is the bypass feed roller dirty?

Did you clean the laser unit?

! Solution

- Clean the surface of the bypass feed roller. [CLEANING THE BYPASS FEED ROLLER \(page 1-24\)](#)
- Clean the laser unit. For details on cleaning, refer to the [CLEANING THE LASER UNIT \(page 1-21\)](#).



SMUDGES APPEAR ON PRINTED OUTPUT



Check

Are you using paper that is not within the specifications?

Are you printing on pre-punched paper?

Does a message appear indicating the need for maintenance?

Remove the paper, turn it over, and reload it. Using a different paper type may solve the problem.



Solution

- Use SHARP-recommended paper. Using paper that is for other models or special paper that is not supported may result in misfeeds, creases, or smudges.
⇒ - "SUPPLIES" in Start Guide
- Try setting the paper type to a type that is slightly heavier or slightly lighter than normal. (For plain paper, switch plain paper 1 to plain paper 2 or plain paper 2 to plain paper 1.) Depending on the paper type, print quality may be improved. For details, contact your dealer or nearest SHARP Service Department.

- Take care that the image does not overlap the punch holes. If the printed image overlaps the punch holes, smudges may appear on the reverse side of the paper following 1-sided printing, or on both sides following 2-sided printing.

- Contact your dealer or nearest SHARP Service Department as soon as possible.

- This may improve some states of paper curling.
[LOADING PAPER \(page 1-7\)](#)

WHEN PRINTING ON THICK PAPER, THE PRINT RESULT IS DIRTY FROM THE 2ND PAGE ON



Check

Has the paper type been set correctly?



Solution

- Set the correct paper type in the tray settings. Make sure that the following did not occur:
 - When using heavy paper, change the paper type in the tray settings to Heavy. (The image may disappear if rubbed.)
 - Paper other than heavy paper is being used, but heavy paper is selected in the tray settings. (This may cause creases and misfeeds.)

PART OF THE IMAGE IS CUT OFF



Check

Was the original placed in the correct position?



Solution

- If you are using the document glass, be sure to place the original in the far left corner of the document glass.
[LOADING PAPER \(page 1-7\)](#)



PRINTING TAKES PLACE ON THE WRONG SIDE OF THE PAPER



Check

Is the paper loaded with the print side facing in the correct direction?



Solution

- Make sure that the print side of paper is facing in the correct direction.
 - Trays 1 to 2, Bypass Tray:
Place the paper with the print side face down.*
 - * When the paper type is "Pre-Printed" or "Letter Head", load the paper in the opposite way.
(Except when [Disabling of Duplex] is enabled in the setting mode (administrator).
For information about the setting mode, consult your administrator.)

THE CONNECTED USB DEVICE CANNOT BE USED




Check

Is the USB device compatible with the machine?



Solution

- Check the file format of the USB memory device.
If the USB memory is formatted as other than FAT32, NTFS, or exFAT, use a computer to change the format to FAT32, NTFS, or exFAT.
- When a USB device is connected to the machine and correctly recognized, an icon () will appear at the bottom of the touch panel. If it is not recognized, connect it once again.

THE TOUCH PANEL DISPLAY IS DIFFICULT TO VIEW



Check

Is the brightness properly adjusted?



Solution

- Tap the [LCD Control] key on the Menu screen to adjust the brightness.

YOU WERE LOGGED OUT WITHOUT LOGGING OUT YOURSELF



Check

Did Auto Clear activate?



Solution

- When user authentication is used, the currently logged in user will be automatically logged out if Auto Clear activates. Log in again.
If you are the administrator, change the time setting of Auto Clear or disable Auto Clear in [Auto Clear Setting].
⇒ From the operation panel, [System Settings] → [Common Settings] → [Operation Settings] → [Auto Clear Setting]



I DON'T KNOW WHERE THE IP ADDRESS SETTING IS

Check

The IP address is set in the Network Settings of Setting mode.

Solution

- To set a permanent IP address, ask your network administrator for the IP address assigned to the machine and other information necessary for the Network Settings.
 - ⇒ In the Web page → [System Settings] → [Network Settings] → [Interface Settings]
 - ⇒ From the operation panel, [System Settings] → [Network Settings] → [Wired Settings] → [IPv4 Settings], [IPv6 Settings]

I DON'T KNOW HOW TO ADJUST THE TIME THE MACHINE ENTERS ENERGY SAVE MODE

Check

Set the time the machine enters energy save mode in the Energy Save settings of setting mode.

Solution

- Set the time the machine enters energy save mode in the Energy Save settings of setting mode.
Set the time the machine enters Preheat Mode.
 - ⇒ In the Web page → [System Settings] → [Energy Save] → [Eco Setting] → [Preheat Mode Setting]
 - ⇒ From the operation panel, [System Settings] → [Energy Save] → [Preheat Mode Setting]
- Set the time that Auto Power Shut-Off takes place
 - ⇒ In the Web page → [System Settings] → [Energy Save] → [Eco Setting] → [Auto Power Shut-Off Timer]
 - ⇒ From the operation panel, [System Settings] → [Energy Save] → [Auto Power Shut-Off Timer]

I FORGOT THE ADMINISTRATOR PASSWORD

Check

Was the administrator password changed from the factory default setting?

Solution

- Contact your dealer or nearest SHARP Service Department.
For the factory default administrator password, see "FOR THE ADMINISTRATOR" in Start Guide. After changing the password, take special care to remember it.



I DON'T KNOW WHOM TO CONTACT FOR MAINTENANCE AND SERVICE



Check

Please check the customer support information.



Solution

- Contact your dealer or nearest SHARP Service Department.

"The inside of the machine is being cooled down. Please wait." MESSAGE IS DISPLAYED



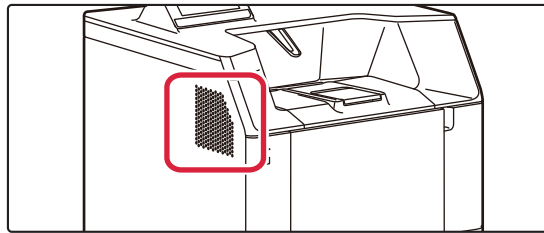
Check

Is there an obstruction blocking the machine's ventilation openings or is the room temperature too hot?



Solution

- If the inside of the machine becomes hot, it will automatically shift to the cooling mode and print out with an interval between printouts. Check to make sure that there is no obstruction blocking the ventilation openings of the machine and that the room temperature is not too hot. If the message continues to appear, turn off the power, wait a few minutes, and try again.







PRINTING PROBLEMS

Have functions been disabled by the administrator?

Some functions may have been disabled in the setting mode. When user authentication is enabled, the functions that you can use may be restricted in your user settings. Check with your administrator.

CHECK LIST

 Problem	 Check	Page
PRINTING DOES NOT TAKE PLACE	Is your PC connected correctly to the machine?	6-14
	Is the machine connected to the same network (LAN, etc.) as your PC?	6-14
	Have you changed your network environment by replacing a computer or adding a new router?	6-14
	Is the IP address selected correctly? (Windows)	6-14
	Are you using a printer port created using Standard TCP/IP Port? (Windows)	6-14
	Is your computer in an unstable state?	6-14
	Is the machine specified correctly in the application that you are using for printing?	6-15
	Are the network connection devices operating normally?	6-15
	Is the I/O timeout setting too short?	6-15
	Was a Notice Page printed?	6-15
	Have functions been disabled by the administrator?	6-15
	Did you save settings in the Condition Settings that cannot be used with your current option configuration?	6-15
	I DON'T KNOW WHICH PRINTER DRIVER TO INSTALL	Check the features of each printer driver before installing.
I DON'T KNOW HOW TO CANCEL PRINTING	Follow the steps below to cancel printing	6-16
COLOR PRINTING DOES NOT TAKE PLACE	Is the color mode set to "Color"?	6-16
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I DON'T KNOW HOW TO SWITCH BETWEEN COLOR AND BLACK & WHITE PRINTING	The color mode setting is configured in the printer driver.	6-16
I DON'T KNOW HOW TO PRINT ON SPECIAL MEDIA (ENVELOPES, ETC.)	For envelopes*, use tray or the bypass tray, and for special papers such as label paper, use the bypass tray.	6-17
2-SIDED PRINTING DOES NOT TAKE PLACE	Are you using a special size or type of paper?	6-17
	Have functions been disabled by the administrator?	6-17
DIRECT PRINTING OF A FILE IN A SHARED FOLDER ON A COMPUTER IS NOT POSSIBLE	Is [IPsec Settings] enabled on the machine?	6-17
A TRAY OR OTHER PERIPHERAL DEVICE INSTALLED ON THE MACHINE CANNOT BE USED	Have the peripheral devices that are installed on the machine been configured with the printer driver?	6-18
THE IMAGE IS GRAINY	Are the printer driver settings appropriate for the print job?	6-18
THE IMAGE IS TOO LIGHT OR TOO DARK	Does the image (particularly a photo) need correction? (Windows)	6-18
COLORS ARE OFF	Did you perform "Registration Adjustment"?	6-18
TEXT AND LINES ARE FAINT AND DIFFICULT TO SEE	Was color data printed in black and white? (Windows)	6-19



Problem	Check	Page
PART OF THE IMAGE IS CUT OFF	Does the paper size specified by the job match the size of paper loaded into the tray?	6-19
	Is the print orientation setting (portrait or landscape) correct?	6-19
	Are the margins set correctly in the layout settings of the application?	6-19
THE IMAGE IS UPSIDE DOWN	Are you using a type of paper (envelopes, punch paper, etc.) that can only be loaded in a fixed orientation?	6-19
	Is the correct binding position selected for 2-sided printing?	6-19
MANY GARBLED CHARACTERS ARE PRINTED	Is your computer or the machine in an unstable state?	6-20
AFTER THE ROUTER WAS REPLACED, I CAN NO LONGER PRINT TO THE MACHINE	Does your computer connect to the machine?	6-20

PRINTING DOES NOT TAKE PLACE



Check



Solution

Is your PC connected correctly to the machine?

- Make sure that the cable is connected securely to the LAN connector of your PC and that of the machine.
If you are connecting to a network, make sure that the LAN cable is securely connected to the hub as well.
[INTERIOR, SIDE AND BACK \(page 1-3\)](#)

Is the machine connected to the same network (LAN, etc.) as your PC?

- The machine must be connected to the same network as your PC.
If you do not know which network the machine is connected to, ask the network administrator.

Have you changed your network environment by replacing a computer or adding a new router?

- The connection to the computer may not be correct due to a change in IP address caused by replacing your computer or by a change in the network environment. Contact your network administrator to confirm that the settings between the machine and your computer or network environment are correct.

Is the IP address selected correctly? (Windows)

- Check the IP address setting.
If the machine does not have a permanent IP address (the machine receives an IP address from a DHCP server), printing will not be possible if the IP address changes.
You can check the machine's IP address in [Network Status] of setting mode. If the IP address has changed, change the port setting in the printer driver.
⇒ In the Web page → [Status] → [Network Status]
See: Software Setup Guide
- If the IP address changes frequently, it is recommended that a permanent IP address be assigned to the machine.
⇒ In the operation panel or Web page → [System Settings] → [Network Settings]

Are you using a printer port created using Standard TCP/IP Port? (Windows)

- Check the PC settings.
When a port created with Standard TCP/IP Port in Windows is used and the [SNMP Status Enabled] checkbox is , it may not be possible to print correctly. Change the [SNMP Status Enabled] checkbox to .
See: Software Setup Guide

Is your computer in an unstable state?

- Restart your computer.
Printing is sometimes not possible when you run multiple applications at once or there is insufficient memory or local drive space. Restart your computer.



Check

Is the machine specified correctly in the application that you are using for printing?

Are the network connection devices operating normally?

Is the I/O timeout setting too short?

Was a Notice Page printed?

Have functions been disabled by the administrator?

Did you save settings in the Condition Settings that cannot be used with your current option configuration?



Solution

■ Check whether the machine's printer driver has been selected from the print window of the application.

If the machine's printer driver does not appear in the list of available printer drivers, it may not be installed correctly. Remove the printer driver and then install it once again.

See: Software Setup Guide

■ Make sure that the routers and other network connection devices are operating correctly.

If a device is not powered on or is in an error state, see the manual of the device to correct the problem.

■ Check with your administrator.

If the I/O timeout setting is too short, errors may occur while writing to the printer. Ask the administrator of the machine to configure an appropriate time in "I/O Timeout".

■ In the Web page → [System Settings] → [Printer Settings] → [Condition Settings] → [I/O Timeout].

■ Check the Notice Page.

A Notice Page will be printed to indicate the cause of the problem if a print job cannot be performed as specified and the cause is not shown in the display.

Read the printed page and take appropriate actions.

For example, a Notice Page will be printed in the following situations.

- The print job is too large to fit in memory.
 - A function that has been prohibited by the administrator is specified.
- By factory default, Notice Pages are not printed.

■ Check with your administrator.

When user authentication is enabled, the functions that you can use may be restricted in your user settings. Check with your administrator.

■ Initialize the Condition Settings.

If you change your option configuration after changing the Condition Settings, the Print Settings screen may not appear. Return to your original option configuration, or initialize the Condition Settings.

I DON'T KNOW WHICH PRINTER DRIVER TO INSTALL



Check

Check the features of each printer driver before installing.



Solution

■ Each printer driver has specific features. Install and use the printer drivers that match your needs.

- PCL6 printer driver

The machine supports the Hewlett-Packard PCL6 printer control languages.

Prints fast and is good for regular print jobs.

- PS printer driver

The PS printer driver supports the PostScript 3 page description language developed by Adobe Inc.

Excellent reproduction of images that include fine graphics.

- PPD driver

The PPD driver enables the machine to use the standard Windows PS printer driver.



I DON'T KNOW HOW TO CANCEL PRINTING

Check

Follow the steps below to cancel printing

Solution

- If the print data has not been spooled to the machine, refer to the manual for your operating system or application.

COLOR PRINTING DOES NOT TAKE PLACE

Check

Is the color mode set to "Color"?

Solution

- Select "Auto" or "Color" for the color mode setting.
Windows:
The setting is selected in the [Main] tab or [Image Quality] tab of the printer driver.
macOS:
The color mode setting is configured in the [Image Quality] menu of the print window.

Have functions been disabled by the administrator?

- Check with your administrator.
When user authentication is enabled, the functions that you can use may be restricted in your user settings.

I DON'T KNOW HOW TO SWITCH BETWEEN COLOR AND BLACK & WHITE PRINTING

Check

The color mode setting is configured in the printer driver.

Solution

- Select "Auto" or "Color" for the color mode setting.
Windows:
The setting is selected in the [Main] tab of the printer driver.
macOS:
The print mode setting is configured in the [Image Quality] menu of the print window.



I DON'T KNOW HOW TO PRINT ON SPECIAL MEDIA (ENVELOPES, ETC.)



Check

For envelopes*, use tray or the bypass tray, and for special papers such as label paper, use the bypass tray.



Solution

- For envelopes, set envelopes in tray or in the bypass tray. For special papers such as label paper, set the paper in the bypass tray. After loading the media, set the paper size and paper in [Tray Settings] in the home screen. In addition, check the method of setting the paper, and the type and size of paper, such as the envelope type, etc. When you have completed the settings on the machine, set the "Original Size" and "Paper Size" appropriately on the [Main] tab of the printer driver.

* Depending on the countries or regions, envelopes may not be available.

2-SIDED PRINTING DOES NOT TAKE PLACE



Check

Are you using a special size or type of paper?

Have functions been disabled by the administrator?



Solution

- Check the paper types and sizes that can be used for two-sided printing.

- Check with your administrator.
Some functions may have been disabled in the setting mode. Check with your administrator.
When user authentication is enabled, the functions that you can use may be restricted in your user settings. Check with your administrator.

DIRECT PRINTING OF A FILE IN A SHARED FOLDER ON A COMPUTER IS NOT POSSIBLE



Check

Is [IPsec Settings] enabled on the machine?



Solution

- Check with your administrator.
When [IPsec Settings] is enabled in the setting mode, direct printing of a file in a shared folder may not be possible in your PC environment. For information about [IPsec Settings], consult your administrator.
⇒ In the Web page → [Security Settings] → [IPsec Settings]



A TRAY OR OTHER PERIPHERAL DEVICE INSTALLED ON THE MACHINE CANNOT BE USED

Check

Have the peripheral devices that are installed on the machine been configured with the printer driver?

Solution

- Open the printer properties dialog box and click [Auto Configuration] on the [Options] tab. (Windows)
If auto configuration cannot be executed, see the Software Setup Guide.

THE IMAGE IS GRAINY

Check

Are the printer driver settings appropriate for the print job?

Solution

- Check the settings of the printer driver.
When selecting print settings, select a print mode from [600dpi] or [600dpi (High Quality)]. When you need a very clear image, select [600dpi (High Quality)].
Windows:
The resolution setting is selected in the [Image Quality] tab of the printer driver properties window.
macOS:
The resolution setting is configured in the [Printer Features] menu of the print window.

THE IMAGE IS TOO LIGHT OR TOO DARK

Check

Does the image (particularly a photo) need correction? (Windows)

Solution

- Check the settings of the printer driver.
Correct brightness and contrast with [Image Quality] on the [Color Adjustment] tab of the printer driver. Use these settings to make simple corrections in a case such as when image editing software is not installed on your computer.

COLORS ARE OFF

Check

Did you perform "Registration Adjustment"?

Solution

- Ask your administrator to perform "Registration Adjustment".
⇒ From the operation panel, [System Settings] → [Image Quality Adjustment] → [Registration Adjustment].
- If the color tones are off, perform [Color Balance Adjustment] after finishing registration adjustment. (If the colors are still off after calibration, repeating calibration may improve the results.)
⇒ From the operation panel, [System Settings] → [Image Quality Adjustment] → [Auto Calibration].



TEXT AND LINES ARE FAINT AND DIFFICULT TO SEE

Check

Was color data printed in black and white?
(Windows)

Solution

- Check the settings of the printer driver.
When color text and lines are printed in black and white, they may become faint and difficult to see. To have color text or lines (areas) that could become faint converted to black, select [Text To Black] or [Vector To Black] on the [Image Quality] tab of the printer driver. (Raster data such as bitmap images cannot be adjusted.)

PART OF THE IMAGE IS CUT OFF

Check

Does the paper size specified by the job match the size of paper loaded into the tray?

Is the print orientation setting (portrait or landscape) correct?

Are the margins set correctly in the layout settings of the application?

Solution

- Make sure that the paper size setting matches the size of paper loaded into the tray.
Windows: The setting is selected in the [Paper Source] tab of the printer driver. If [Paper Tray] is selected, check the loaded paper and the paper size setting.
macOS: The setting is selected in the [Page Setup] menu.
- Set the print orientation to match the image.
Windows: The setting is selected in the [Main] tab of the printer driver.
macOS: The setting is selected in the [Page Setup] menu.
- Select an appropriate paper size and margins in the layout settings of the application.
If the edge of the image extends outside the printable area of the machine, the edge will be cut off.

THE IMAGE IS UPSIDE DOWN

Check

Are you using a type of paper (envelopes, punch paper, etc.) that can only be loaded in a fixed orientation?

Is the correct binding position selected for 2-sided printing?

Solution

- Rotate the image 180 degrees before printing.
When the image size and paper size are the same but the orientations are different, the orientation of the image is automatically rotated to match the paper. However, when the paper can only be loaded in a fixed orientation, the image may be printed upside down. In this event, rotate the image 180 degrees before printing.
Windows: The setting is selected in "Orientation" on the [Main] tab of the printer driver.
macOS: The setting is selected in the [Layout] menu of the print window.
- Be sure to set the appropriate binding position.
When 2-sided printing is performed, every other page is printed upside down when tablet binding is selected for the binding position.
Windows: The setting is selected in the [Main] tab of the printer driver.
macOS: The setting is selected in the [Layout] menu of the print window.



MANY GARBLED CHARACTERS ARE PRINTED

✓ Check

Is your computer or the machine in an unstable state?

! Solution

- Cancel printing, restart your PC and the machine, and try printing again.
If there is only a small amount of free space remaining in the memory or local drive of your PC, or if a large number of jobs have been spooled on the machine and only a small amount of free space remains, text may be printed as garbled characters.
To cancel printing:
 - Windows:
Double-click the printer icon that appears at the lower right of the task bar and click "Cancel All Documents" (or "Purge Print Documents") in the [Printer] menu.
 - macOS:
Double-click the name of the machine in the printer list, select the job that you wish to delete, and delete it.
- If some printed characters are still garbled after restarting, ask your administrator to lengthen the timeout setting of [I/O Timeout] in the setting mode.
 - ⇒ In the Web page → [System Settings] → [Printer Settings]
→ [Condition Settings] → [I/O Timeout].If garbled characters are being still printed after the above measures are taken, remove and then reinstall the printer driver.

AFTER THE ROUTER WAS REPLACED, I CAN NO LONGER PRINT TO THE MACHINE

✓ Check

Does your computer connect to the machine?

! Solution

- The network connection between the machine and your computer may not be working correctly. Check the machine's IP address and your computer's IP address, and make sure that your computer can connect to the machine. Also check if the correct "Print Port" is specified in your computer's driver settings.
- Check the IP address setting.
If the machine does not have a permanent IP address (the machine receives an IP address from a DHCP server), printing will not be possible if the IP address changes.
You can check the machine's IP address in [Network Status] of setting mode. If the IP address has changed, change the port setting in the printer driver.
- In the Web page → [Status] → [Network Status]
See: Software Setup Guide
If the IP address changes frequently, it is recommended that a permanent IP address be assigned to the machine.
- In the operation panel or Web page → [System Settings] → [Network Settings]
- Check if the correct print port is set on the computer.
 - Windows:
Click the [Start] button, select [Settings] → [Device] → [Devices and Printers]. (In Windows 11, click the [Start] button, select [Bluetooth & devices] → [Printers & scanners].)
Select and then right-click the printer → [Printer properties] → [Port]
 - macOS:
Delete and then reinstall the printer.



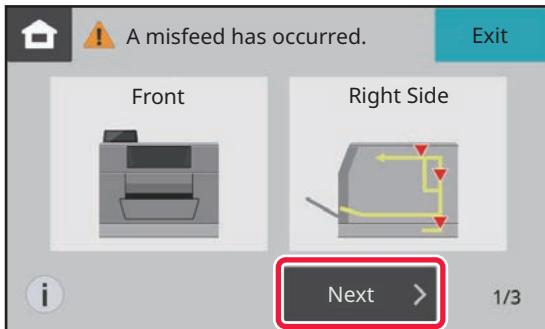
REMOVING MISFEEDS

REMOVING MISFEEDS

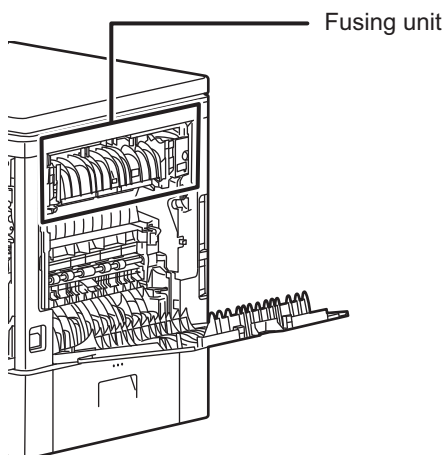
If a paper misfeed occurs, the "Paper Jam" message will appear in the touch panel and printing will stop.

In this event, tap the [Next] key in the touch panel.

When the key is tapped, instructions for removing the misfeed will appear. Follow the instructions. When the misfeed is cleared, the message will automatically disappear.



- The fusing unit and paper output area are hot.
- When removing a misfeed, do not touch the fusing unit. You may burn yourself.





APPENDIX

SPECIFICATIONS

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SPECIFICATIONS

SPECIFICATIONS

Basic Specifications / Printer Specifications

Name	BP-C131PW		
Type	Desktop		
Color	Full color		
Printer system	Laser electrostatic printer		
Resolution	Print: 600 × 600 dpi		
Gradation	Print: equivalent to 256 levels		
Print sizes	8-1/2" × 14" to 5-1/2" × 8-1/2" (A4 to B6), Envelope (Monarch, COM9, COM10, DL, C5, C6) Main tray (Tray 1): 8-1/2" × 14" to 5-1/2" × 8-1/2" (A4 to B6), Envelope (Monarch, COM9, COM10, DL, C5, C6) Bypass tray: A4 to B6 (8-1/2" × 14" to 5-1/2" × 8-1/2"), Envelope (Monarch, COM9, COM10, DL, C5, C6) Lost margin Leading edge: 13/64" ± 3/64" (5.0 mm ± 1.0 mm) Trailing edge: 3/32" to 17/64" (2.0 mm to 6.4 mm) Left edge / Right edge: total 21/64" (8 mm) or less		
Paper type	Main tray (Tray 1): Plain, Heavy paper, Envelopes, Recycled, Color, Letter Head, Pre-Printed, Pre-Punched Bypass tray: Plain, Heavy paper, Envelopes, Special media, Recycled, Color, Letter Head, Pre-Printed, Pre-Punched Paper weight: Main tray (Tray 1): 16 lbs. bond to 65 lbs. Cover (60 g/m ² to 176 g/m ²) Bypass tray: 16 lbs. bond to 110 lbs. Index (60 g/m ² to 200 g/m ²) • Some usage conditions or paper types may prevent correct printing. To use special media (labels, glossy paper, etc.), or paper from 28 lbs. bond to 110 lbs. Index (106 g/m ² to 200 g/m ²), contact your dealer or SHARP Service Department.		
Warm-up time	33 seconds* This may vary depending on the ambient conditions. *From the power button.		
First-print time* ¹	Full color	B/W	
	8.5 seconds	6.5 seconds	
	This may vary depending on the state of the machine. * ¹ Portrait feeding of A4 (8-1/2" × 11") sheets.		
Continuous printing speeds* [†]	8-1/2" × 11", A4	31 copies/min.	
	8-1/2" × 14", 8-1/2" × 13", 8-1/2" × 13-2/5", 8-1/2" × 13-1/2"	26 copies/min.	
	7-1/4" × 10-1/2", 5-1/2" × 8-1/2", B5, B6 A5, A6	15 copies/min.	
	* Portrait feeding, continuous speed for same original source. Output may be temporarily interrupted to stabilize image quality. The speed may drop in some environments.		
Paper feed / capacity	300 sheets in 1 tray (250) plus 50-sheet bypass tray • Using 20 lbs. bond (80 g/m ²) weight paper		
Max. paper feed / max. capacity	800 sheets in 2 trays (250 + 500) plus 50-sheet bypass tray • Using 20 lbs. bond (80 g/m ²) weight paper		
Memory	Memory 2 GB, eMMC: 16 GB • 1 GB = One billion bytes when referring to hard drive capacity. Actual format capacity is less.		
Required power supply	Power consumption (including options): Max. 1 kW (AC 120 V/8 A, 60 Hz)		
Ambient environment	Operating environment: 50 °F to 91 °F (0 °C to 35 °C) (20 % to 85 % RH) 800 - 1,013 hPa Standard environment: 69.5 °F to 77 °F (21 °C to 25 °C) (50 ± 10 % RH)		
Dimensions	16-5/32" (W) × 16-5/32" (D) × 14-17/32" (H) (410 mm (W) × 410 mm (D) × 369 mm (H))		
Weight	Approx. 41.9 lbs (19 kg)		

Overall dimensions	16-5/32" (W) × 25-29/32" (D) (410 mm (W) × 658 mm (D)) *With the bypass tray is extended
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Paper feed unit

Name	500-sheet paper feed unit (BP-CS13)
Paper sizes	8-1/2" × 14", 8-1/2" × 13-1/2", 8-1/2" × 13-2/5", 8-1/2" × 13", 8-1/2" × 11", 7-1/4" × 10-1/2", 5-1/2" × 8-1/2", A4, B5, A5, B6, A6, 16K, Envelope (COM10)
Useable paper	16 lbs. bond to 110 lbs. Index (60 g/m ² to 220 g/m ²)
Paper capacity	500 sheets
Required power supply	Supplied from main machine
Dimensions	16-5/32" (W) × 16-5/32" (D) × 6-7/64" (H) (410 mm (W) × 410 mm (D) × 155 mm (H))
Weight	Approx. 8.6 lbs. (3.9 kg)

Network Printer Specifications

Type	Built-in type
Continuous print speed	Same as continuous printing speeds*
Resolution	600 × 600 dpi
Page description language	PCL6 emulation, PostScript® 3 emulation
Compatible protocols	TCP/IP (LPD, Port9100, IPP, FTP, WSD)
Compatible OS	Windows 10, Windows 11, Windows Server 2016, Windows Server 2019, Windows Server 2022 macOS (10.10, 10.11, 10.12, 10.13, 10.14, 10.15, 11, 12, 13, 14)
Internal fonts	80 fonts for PCL, 136 fonts for PostScript® 3 emulation
Memory	Machine system memory and memory
Interface	10BASE-T/100BASE-TX, USB 2.0 (Host, Hi speed mode), IEEE802.11 a/b/g/n/ac



Wireless LAN Specifications

Type	Standard (Built-in type)
Compliance standards	IEEE802.11a/b/g/n/ac
Transmission method	OFDM (IEEE802.11a/g/n/ac), DS-SS (IEEE 802.11b)
Frequency range	2400 to 2483.5 MHz / 5150 to 5350 MHz / 5470 to 5725 MHz / 5725 to 5850 MHz
Channel number	See "Channels that can be used in wireless LAN" in the Start Guide.
Transmission speed (value of standard) *1	IEEE802.11b max. 11 Mbps IEEE802.11a/g max. 54 Mbps IEEE802.11n max. 150 Mbps IEEE802.11ac max. 433 Mbps
Compatible protocols	TCP/IP (IPv4)
Security	WEP, WPA/WPA2-mixed PSK, WPA/WPA2-mixed EAP*2, WPA2 PSK, WPA2 EAP*2, WPA2/WPA3-mixed PSK/SAE, WPA3 SAE, WPA2/WPA3-mixed EAP*2, WPA3 EAP*2

*1: The indicated values are maximum theoretical values for the Wireless LAN Standard. The values do not indicate actual data transmission speeds.

*2: Cannot be used in Access Point mode.



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