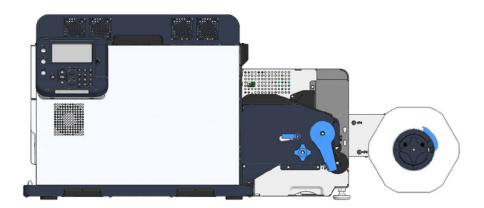


# Pro1040/Pro1050

# **User's Guide**



# Manual Configuration

The following manuals are included with the product.

Residual Risk

This manual describes the map of residual risks that require protective measures by users.

Setup Guide

This manual describes how to connect the printer to a computer and set it up following installation.

User's Guide (This Manual)

This manual describes details about product functions and operations.

Maintenance Guide

This manual describes how to replace consumables, and how to clean and maintain the product.

The latest versions of the manuals can be downloaded at the website.

https://www.oki.com/printing/

# Reading the Manual

#### Symbols

#### Note

• These are cautions and restrictions for the correct operation of the device. Make sure to read to avoid misoperation.

#### Memo

• These are references and information that are useful when using the device. We recommend reading them.

## Reference

• These are the reference pages. Read to learn detailed information and relevant information.

#### 

• Mishandling due to ignoring this display may cause death or serious injury.

#### 

• Mishandling due to ignoring this display may cause personal injury.

#### Keys, Buttons, and Symbols

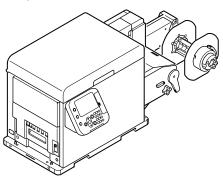
This chapter describes the following keys, buttons, and symbols.

Inscription	Description
< > button/key	<ul> <li>Indicates hardware buttons and the numeric keypad on the control panel.</li> <li>E.g.:</li> <li>(m) → <ok> button</ok></li> <li>(m) → <back> button</back></li> <li>(m) → <fn> key</fn></li> <li>(m) → <clear> key</clear></li> <li>Indicates your PC keyboard.</li> </ul>
	<ul> <li>Indicates your receiption display screen.</li> </ul>
[]	<ul> <li>Indicates menu, window, and dialog names on the computer.</li> </ul>
	<ul> <li>Indicates messages and input text on the display screen.</li> <li>Indicates file names and screen names on the computer.</li> <li>Indicates reference titles.</li> </ul>
>	Indicates how to get to the item you want in the menu of this printer or the computer.

#### Illustrations

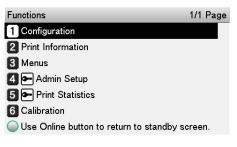
Unless otherwise specified, the printer illustrations used herein show the printer with the unwinder mounted.

Illustrations may differ from the actual product.



#### Screens

The images of the control panel and PC used herein are examples. The images may differ from actual products and screens.



#### Inscriptions

The following inscriptions are used in this manual.

- Microsoft<sup>®</sup> Windows<sup>®</sup> 10 64-bit Edition operating system  $\rightarrow$  Windows 10 (64-bit version)
- Microsoft<sup>®</sup> Windows<sup>®</sup> 10 operating system  $\rightarrow$  Windows 10

Unless otherwise specified, the examples in the manuals included with the printer show operation using Windows 10 and the Pro 1050 printer.

Depending on the OS, model, and version you are using, descriptions in this manual may differ from what you actually encounter.

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# 1

# **Paper Settings**

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- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- For detailed explanations of the printer driver and utility setup items, see "Online Help".
- Due to printer driver and utility version upgrades, actual operations may be different from the descriptions in this manual.

# Printing on Various Papers

#### **Usable Media Types**

For high-quality printing it is necessary to use paper that satisfies conditions regarding quality, thickness, paper finish, etc. If printing on paper not recommended by OKI, thoroughly test the print quality and paper traveling performance, etc., and check that there are no impediments before use.

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

#### Paper Types, Size, and Thickness

#### Roll Paper Specifications



• Refer to the "Maintenance Guide" for specific paper sizes.

#### **Roll Paper Types**

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

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

#### Roll Paper Size

Roll Outside Diameter	No greater than 203.2 mm (8 inches)
Paper Width	25.4 to 130 mm (1 to 5.12 inches)
Paper Thickness	0.07 mm to 0.25 mm <sup>*</sup> (0.003 to 0.0098 inches)
Roll Core Width	Same as roll paper
Roll Core Inner Diameter	76.2 mm



\* When there is backing paper, total thickness includes backing paper.

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

Use of metal foil paper and conductive paper is prohibited.

- Using ink jet paper or label paper will cause device malfunction. Use of ink jet paper or label paper is prohibited.
- Use paper that has black marks printed on its back surface (non-printing surface). Black marks printed on the front surface cannot be detected.
- Use paper with black marks printed with carbon ink. Use paper with black marks that have a reflective index of less than 10%.

• Die-cut labels that are used in Gap Mode must satisfy the following conditions.

The transparency of the label part (including both the label and the label liner) must be below 25%.

The liners must be within a range of 10% to 45% transparent. However, the transparency of the liners must be more than 1.8 times the transparency of the label part.

- Die-cut labels that are used in Gap Mode cannot use transparent liners or labels.
- Die-cut labels that are used in Black Mark Mode cannot use transparent liners.
- Use continuous labels that have been smoothed on both edges and have been dry edge processed. Recommended specifications are for paper that has 2 mm of liner on both edges. Please refer to the "Maintenance Guide" for details.
- Thermal paper will become discolored and deformed by heat used for fusing. Do not use it.
- Use film that can withstand heat up to 230°C. Use of film that is not heat resistant creates the risk of film deformation by heat used for fusing, paper jams, and device malfunction.
- Do not use a liner on which glue is smeared. It will not feed correctly in the equipment. In the worst case, it could damage the equipment.
- Cast-coated paper is not recommended. Printing quality cannot be guaranteed when it is used.
- If the paper length, label length, or black Mark Interval for a single sheet is less than 4 inches, blank sheets may be printed to satisfy the paper length that can be fed.
- When printing on paper that is cut to less than 152 mm (6 inches) long in the direction that media is fed, it may feed at an angle.

If this happens, print it so there is a continuous length that is longer than 152 mm (6 inches).

- When printing on paper that is very narrow (25.4 mm (1 inch)), it may feed at an angle at about 80 mm from the cut trailing edge.
- When printing on inside winding paper that is very narrow (25.4 mm (1 inch)), smeared or smudged printing may occur near the cut trailing edge as the roll diameter gets smaller.
- When printing on inside winding paper that is very narrow (25.4 mm (1 inch)), slight damage may occur at the leading edge as the roll diameter gets smaller.
- Use of the types of paper below is not supported.

Paper whose roll surfaces are not cut cleanly.

- Paper that is connected part way through by tape, etc.
- Label paper without backing paper with paste on the front surface
- Paper whose labels are easy to peel or are peeling
- Paper with paste squeezing out onto the base paper area or affixed to the label surface
- Paper that is folded or bent
- Paper that has holes in it
- Paper that is notched
- Paper that has perforations

Paper with different size labels on a single roll

- Paper with different paper widths on a single roll
- Media that has liners and labels that are both transparent (cannot be used even if it has black marks)
- Continuous paper that is transparent (cannot be used even if it has black marks)

#### Setting the Paper Weight

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

Paper Weight (Total thickness including backing paper)	Setting Value of the Media Weight		
76 to 95 µm	Light		
96 to 140 µm	Medium Light		
141 to 159 µm	Medium		
160 to 180 µm	Medium Heavy		
181 to 199 µm	Неаvy		
200 to 214 µm	Ultra Heavy1		
215 to 229 µm	Ultra Heavy2		
230 to 249 µm	Ultra Heavy3		

#### **Storing Media**

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

# Store media in locations like the ones described below

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

#### Avoid locations like the ones described below

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

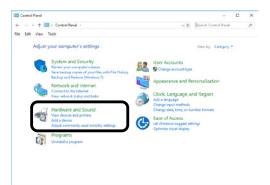
#### Note

- Proper printing may not be possible on paper that has been stored for a long time.
- Leaving roll paper in an environment where it is exposed to high temperatures and high humidity for long periods can cause it to become deformed. Do not use deformed roll paper. Store roll paper in an environment where the temperature and humidity are appropriate.
- We recommend putting partially used label paper back into the vinyl bag it was packaged in, to prevent the paper from absorbing moisture.

# Registering a Desired Paper Size with the Printer Driver

1 Click [Start] and select [Control Panel] in [Windows System].

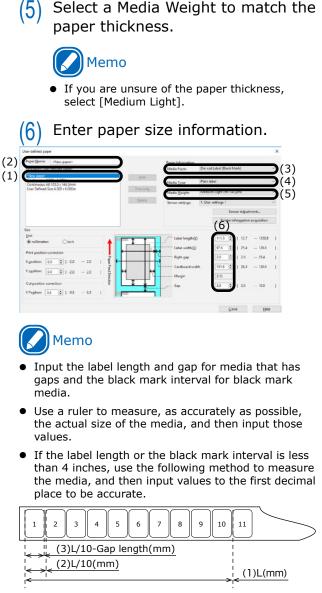
#### Click [View devices and printers].



- **3** Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
- 4 On the [Setup] tab, click [User-defined paper].

Exampl	le	Eavorites				
	1	Default setting		~	Save	Management
	2	Paper settings:	Continuous 4.0	00 x 6.000in	Ŷ	User-gefined paper
Pape	3		Format: Media Type:	Continuous Paper Plain		
Feed	4		Media Type: Media Weight:	Medium Light (96-	140 µm)	
Paper Feed Direction	0	Orientation :	Portrait		7 1001	Mirror Print
~	5	Opentation :	-	O Landscape [	180*	L Mirror Print
	6	Copies:	1 De prioritize	Collate	application	Print in reverse order
	7	Cut Mode:	Only cut at the		~	
	8					
	9	Quality:	Fine / Detail (1)	200 x 1200)	~	Photo Enhance
Ì			Screege	Prioritize resolutio	an ~	
01	KI				About	Default

- 5 Input information about the paper you want to register.
  - (1) Use [Registered user-defined paper] to select "New Paper".
  - (2) In the [Paper Name] box, enter a paper name.
  - (3) Select a Media Form to match the paper.
  - (4) Select a Media Type to match the paper.

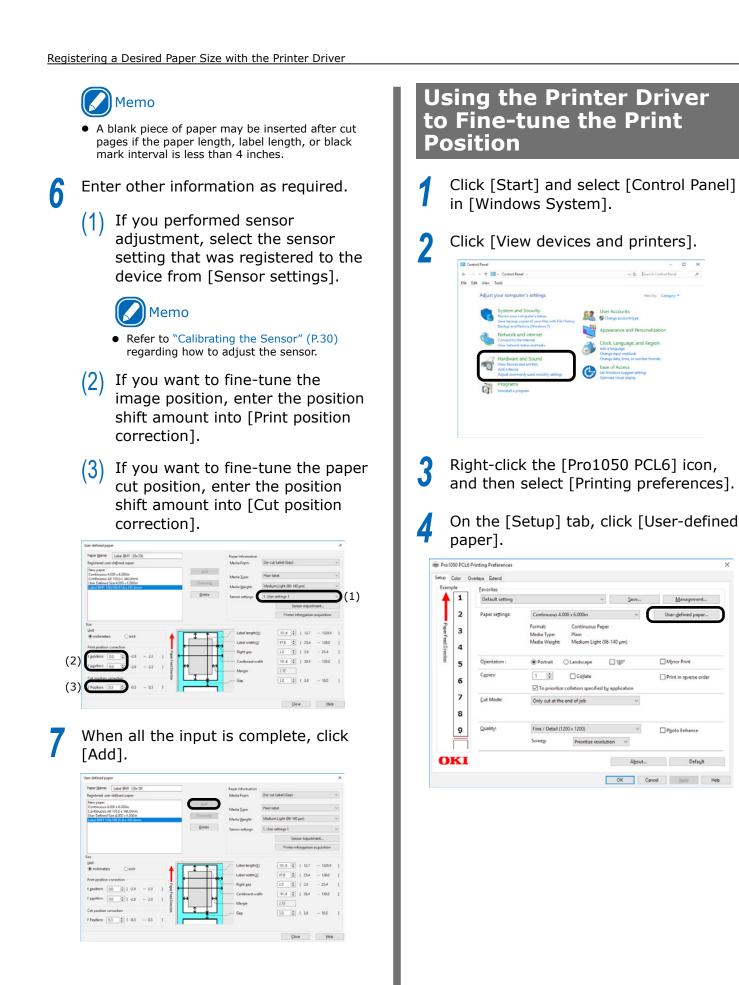


How to Measure the Actual Size of Paper

- (1) Measure the length from the leading edge of the first label (or black mark leading edge) to the leading edge of the 11th label (or black mark leading edge). Use this as L (mm).
- (2) Divide the length you measured in (1) by 10 to calculate the length from the leading edge of the first label (or black mark leading edge) to the leading edge of the 2nd label (or black mark leading edge) to the first decimal place.
- (3) Subtract the length of the gap from the length you calculated in (2) to calculate the length of one label to the first decimal place.

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

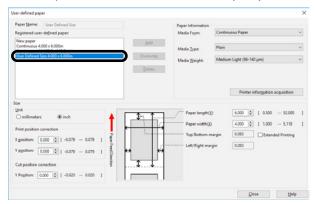
For media that has black marks, input the value calculated in (2) in [Black Mark Interval].



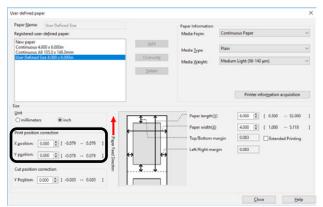
5 Use the [Registered user-defined paper] list to select the paper whose print position you want to correct.



If the paper you want to use is not in the list, select [New paper] and add it. See "Registering a Desired Paper Size with the Printer Driver" (P.15).



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



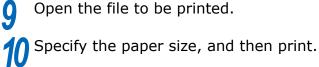
#### Click [Overwrite].

Paper Name:	User Defined Size	Paper Information	
Registered user	-defined paper:	Media Fognic Continuous Paper	v
	000 x 6.000in 105.0 x 148.0mm See 4.000 x 6.000in	Add Media Type: Plain	Ŷ
		Verlang Media Weight: Medium Light (66-140 pm)	v
ize Unit O millimeters Print position c	⊛inch	Paper length () 6.000 6 [ 0.00	52.000 5.118
X gosition:	000 0 [ -0.079 0.079 ]	Top/Bottom margin     0.083     Extended Pr	inting
Cut position co Y Pogition:	000 0 000-1 0000 000		

8 Click [OK] or [Close] as many times as necessary to exit the "Printing preferences" screen.

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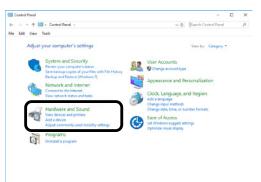
Open the file to be printed.



#### Using the Printer Driver to Fine-tune the Cut Position

1 Click [Start] and select [Control Panel] in [Windows System].

# 2 Click [View devices and printers].



- **3** Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
- **4** On the [Setup] tab, click [User-defined paper].

Exampl	e	Eavorites			
	1	Default setting	¥	Save	Management
Pape	2	Paper settings:	Continuous 4.000 x 6.000in	~	User-defined paper
	3		Format: Continuous Paper		
#Fee	3		Media Type: Plain		
Paper Feed Direction	4		Media Weight: Medium Light (96-14	o µm)	
clion	5	Ogientation :	Portrait     O Landscape	180*	Mirror Print
	6	Copies:	1 Collate		Print in rgverse order
	•		To prioritize collation specified by ap	plication	
	7	Cut Mode:	Only cut at the end of job	~	
	8				
	9	Quality:	Fine / Detail (1200 x 1200)	v	Photo Enhance
ľ			Screeg: Prioritize resolution	~	
OI				About	Default

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



• If the paper you want to use is not in the list, select [New paper] and add it. See "Registering a Desired Paper Size with the Printer Driver" (P.15).

ser-defined paper						
Paper Names User Defined Size		Paper Information				
Registered user-defined paper:		Media Fogm:	Continu	uous Paper		
New paper Continuous 4.000 x 6.000in	<u>A</u> dd	Media Type:	Plain			,
User Defined Size 4.000 x 6.000in	Overwritg	Media Weight:	Medium	n Light (96-140)	µm)	,
	Delete					
				Printer inf	ormation acquisition	
ize						
Unit		Paper length()	0	6.000	[ 0.500 52.000	
Omillimeters @inch	I I I	und				
Print position correction	× 4	Paper width(3)		4.000	[ 1.000 5.118	
	3	Top/Bottom m	nargin	0.083	Extended Printing	
X gosition: 0.000 © [ -0.079 0.079 ]		Left/Right mar		0.083		
Y position: 0.000 0 [ -0.079 0.079 ]	⇔ ⇔	to the second				
X gouitien: 0.000 ① [ -0.079 0.079 ] Y positien: 0.000 ① [ -0.079 0.079 ] Cut position correction	¥					
Cut position correction 9						

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

6

Paper Name: User Defined Size			Paper Information		
Registered user-defined paper:			Media Form:	Continuous Paper	1
New paper Continuous 4.000 x 6.000in Continuous A6 105.0 x 148.0mm		Ådd	Media <u>Type</u> :	Plain	,
User Defined Size 4.000 x 6.000in		Overwrite	Media Weight:	Medium Light (96-140 µm)	,
		Delete			
				Printer information acquisit	ion
Size Unit					
Omilimeters Oinch	A [	1 1	Paper length()	0 6.000 0 [ 0.500 52	000
			Paper width(X	4.000 0 [ 1.000 5.1	18
Print position correction	2	· · · · · · · · · · · · · · · · · · ·	Top/Bottom n	nargin 0.083 Extended Prin	ting
	1 8		Left/Right ma	rain 0.083	
X gosition: 0.000 0 [ -0.079 0.079		1 1 1 1 1 1 1	Lert/Nght ma	igin uuda	
	1 0	* (*)			
	Paper Feed Direction				
Ypgsition: 0.000 \$ [ -0.079 0.079					



Paper Name:	User Defined Size								
				Paper Information	(martin)				
	-defined paper			Media Fognic	Continue	ous Paper			
New paper Continuous 4	000 x 6.000in		∆did		Plain				
Continuous Al	6 105.0 x 148.0mm			Media Jype:	Piain				
*User Defined	Size 4.000 x 6.000in		Overwritg	Media Weight:	Medium	Light (96-14	0 µm)		
						Printer in	nformation	acquisition	
lize Unit									
	(®) inch			Paper length()	0	6.000 \$	[ 0.500	52.000	
Omillimeters		- <b>T</b>		Paper width()			f 1.000	5.118	
				Paper width(A)		4.000			
			*			0.083		fed Printing	
Print position of		Paper	K	Top/Bottom m	nargin	0.083	Extend	ded Printing	
Print position o	correction	Paper Feed Di	н н н		nargin		Extend	ded Printing	
Print position of X gosition:	correction			Top/Bottom m	nargin	0.083	Extend	ded Printing	
Print position of X gosition: 0 Y position: 0 Cut position co	correction	-		Top/Bottom m	nargin	0.083	_ Extend	ded Printing	

8 Click [OK] or [Close] as many times as necessary to exit the "Printing preferences" screen.

**9** Open the file to be printed.

**10** Specify the paper size, and then print.



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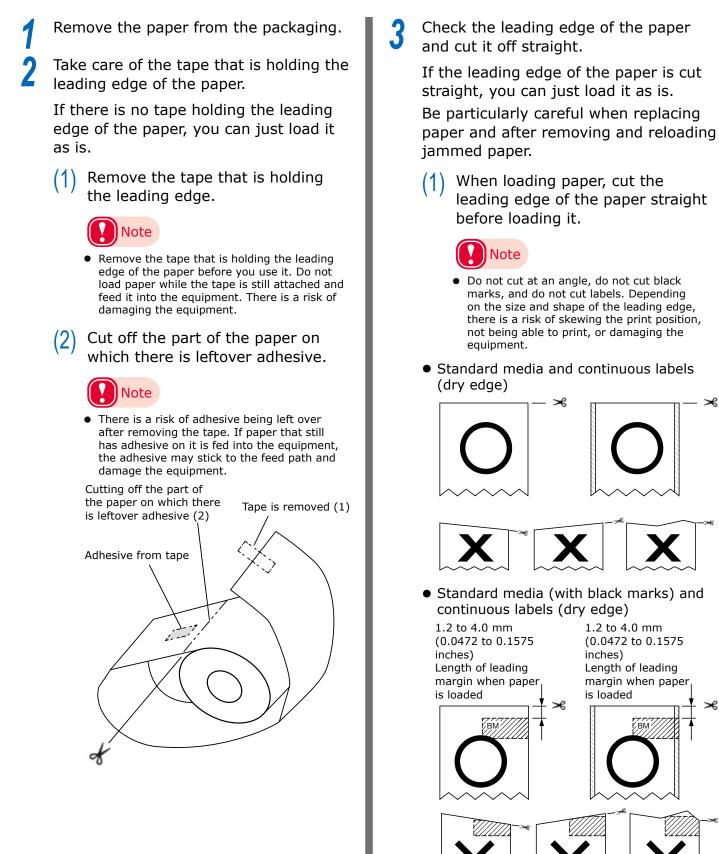


- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- For detailed explanations of the printer driver and utility setup items, see "Online Help".
- Due to printer driver and utility version upgrades, actual operations may be different from the descriptions in this manual.

# **Preparing Paper**

This section describes how to load paper onto the holder of the unwinder.

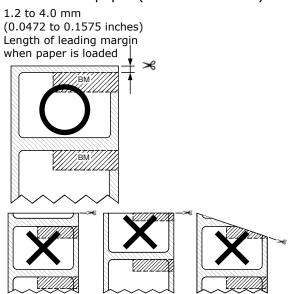
For paper sizes and types that can be loaded onto the unwinder, see "Roll Paper Specifications" (P.12).



 $\gg$ 

 $\gg$ 

- Die-cut label paper (no black marks)
  1.2 to 6.5 mm (0.0472 to 0.2559 inches)
  Length of leading liner when paper is loaded
- Die-cut label paper (with black marks)



# Loading Media

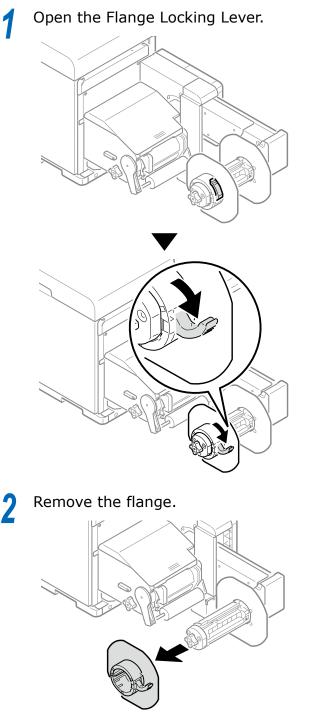
Load the paper onto the Unwinder. For paper sizes and types that can be loaded on the Unwinder, see "Roll Paper Specifications" (P.12).

## Note

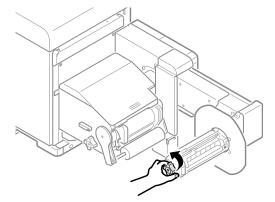
- When setting roll paper, be careful not to drop it. As roll paper is heavy, when you drop it, there is a risk of injury.
- If you drop roll paper, it may roll on the floor and cause injury to the people around.
- To prevent roll paper from dropping, store it horizontally on a desk, etc.
- Do not use any roll paper that is not specified by the Roll Paper Specifications.

# Memo

• If the printer is turned OFF, press the <POWER> button to turn it on.

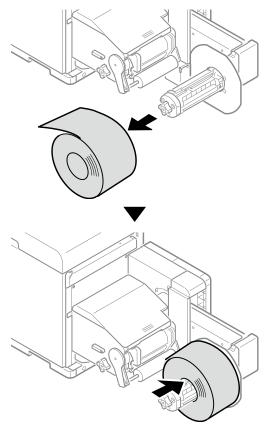


Rotate the Roll Paper Holder Knob to contract the Roll Paper Holder shaft.



# 4

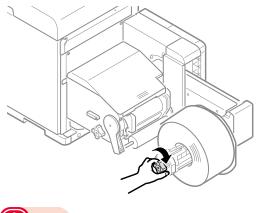
#### Slide roll paper onto the Roll Paper Holder shaft as far as it will go.



# Note

- Make sure to slide the roll paper as far as it will go. Insufficiently sliding the roll paper can adversely affect print position accuracy.
- Take care to avoid pinching your fingers or hands when sliding the roll paper.

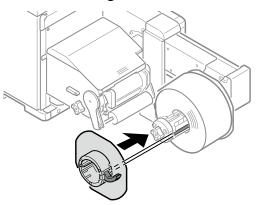
5 Rotate the Roll Paper Holder Knob to fix the roll paper core in place.



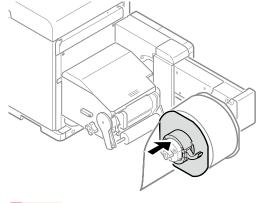


• Rotate the Roll Paper Holder Knob until it clicks.

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



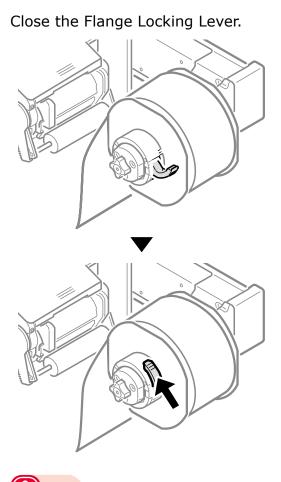
Slide the Flange as far as it will go in accordance with the roll paper width.



### Note

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

8

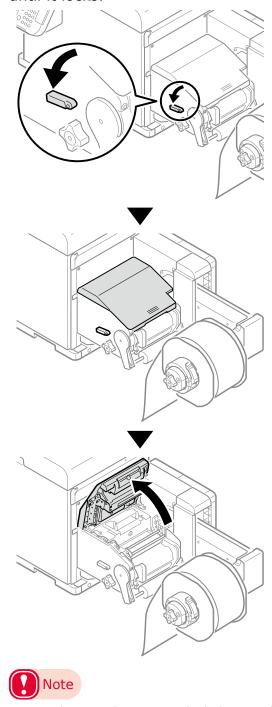




• After loading roll paper, take care not to rest your body weight on the top of the Roll Paper Holder shaft. Doing so risks causing injury due to the device falling.

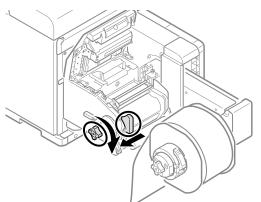
9 Lower the Unwinder Cover Open Lever to open the Unwinder Cover.

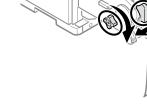
Open the Unwinder Cover manually in the direction indicated by the arrow until it locks.



• Open the Unwinder Cover until it locks securely.

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



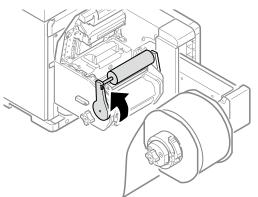




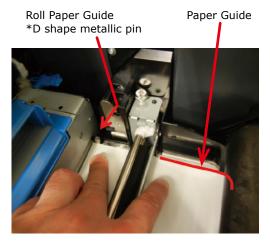
11 Pull up the F0 Roller Release Lever.



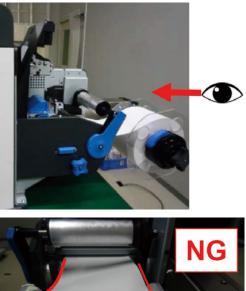
**12** Press the Tension Bar Open Lever upwards until it clicks.



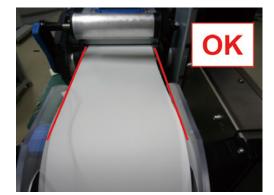
13 Pass paper below the Tension Bar and F0 Roller, and align the leading edge of the paper with the Roll Paper Guide and Paper Guide.

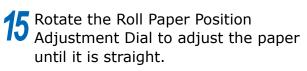


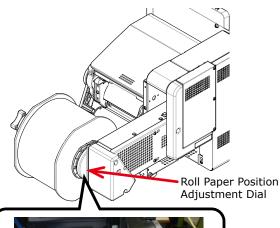
14 Check the paper status from the direction indicated by the arrow.

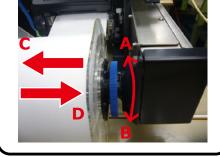










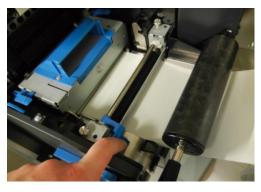




 If you rotate the Roll Paper Position Adjustment Dial in disastion A, the roll paper measure in the direction C.

direction A $\rightarrow$ the roll paper moves in the direction C direction B $\rightarrow$ the roll paper moves in the direction D

# **16** Lower the F0 Roller Release Lever to fix the roller in place.



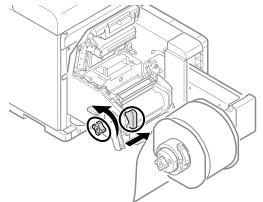
**17** Press down on the Tension Bar Open Lever until it clicks.



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



- Set the Roll Paper Guide correctly. If the Roll Paper Guide is not set correctly, the width of the paper cannot be detected correctly.
- Be careful that the Roll Paper Guide does not press too strongly on the paper. Doing so could damage the paper.
- Do not allow too much of a gap between the paper and the Roll Paper Guide. Doing so could allow the paper to twist and the print position to shift.
- When setting the Roll Paper Guide to the width of the paper, rotate the Roll Paper Guide Adjustment Knob counterclockwise, as shown in the following diagram, to make the Roll Paper Guide narrower so it matches the width of the paper. If it is too narrow, rotate the Roll Paper Guide Adjustment Knob clockwise to first open the Roll Paper Guide wider, and then make it narrower.





#### Gap is too large

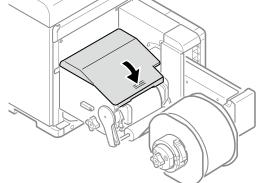


Roll Paper Guide is aligned to width of paper



Roll Paper Guide is too tight

19 Close the Unwinder Cover.





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

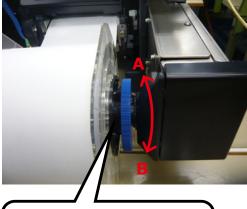
This completes setting roll paper.

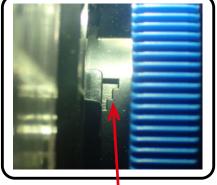


• If, even though the roll paper is set correctly, the paper separates from the Unwinder Paper Guide during printing, rotate the Roll Paper Position Adjustment Dial in the B direction to adjust it so the paper does not separate from the Unwinder Paper Guide.

As a guideline, the adjustment should be the same distance that the paper is separated from the Unwinder Paper Guide.

Each notch on the adjustment scale at the base of the Roll Paper Position Adjustment Dial is 1 mm.





Adjustment notches

# Calibrating the Sensor



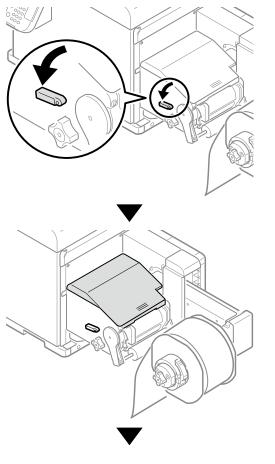
- Check the position of the sensor each time you load paper.
  - Check the position of the sensor in the following cases especially.
  - When you load a different type of paper
  - When you switch the type of sensor from black mark sensor to gap sensor
  - When you switch the type of sensor from gap sensor to black mark sensor
- If the sensor position settings do not match, paper feed jams may occur, you cannot adjust the black mark sensor or the gap sensor, and the skew in the adjusted values may cause the print position to skew.

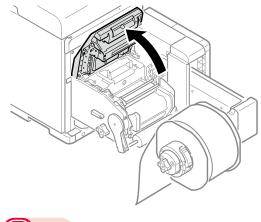
#### Confirming the Sensor Position

#### Unwinder

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

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







• Open the Unwinder Cover until it locks securely.

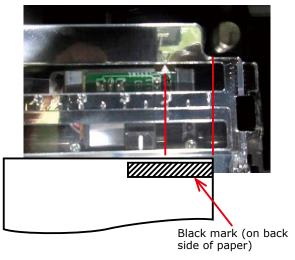


# Confirm the sensor position. Sensor Position Adjustment Dial Position During Regular Usage Factory setting is this position. 10 mm from edge of paper The "∆″ indicates the black mark sensor Edge of paper position The "|" indicates the gap sensor position Edge of 16.5 mm paper from edge

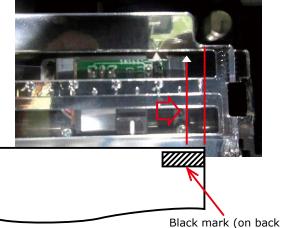
Check the black mark sensor (1) position

of paper

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



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



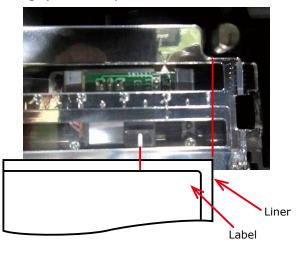
side of paper)

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

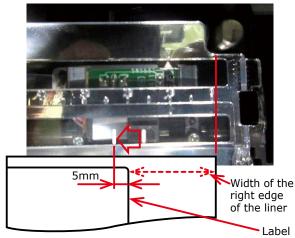
If the black mark is 15 mm or more from the edge of the paper, you do not need to adjust it.

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

(2) Check the gap sensor position Align the paper, and check the actual position of the label and the gap sensor position.

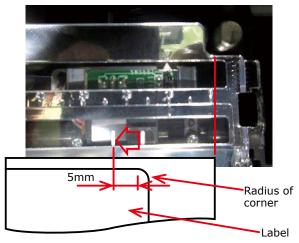


If the position of the label and the gap sensor position do not align in relation to the regular usage position, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 3).

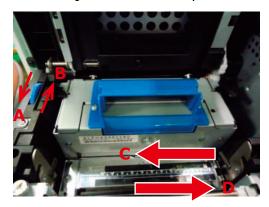


The gap sensor position is set 16.5 mm from the edge of the paper. If the width of the right edge of the liner is 10 mm or less, then adjustments are not necessary. If the width of the right edge of the liner is 10 mm or more, then adjust the gap sensor using the above positions as a rough estimate. If the corners of the label are rounded, then consider the position of the radius of the corner.

Refer to the following example of adjusting the position.



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



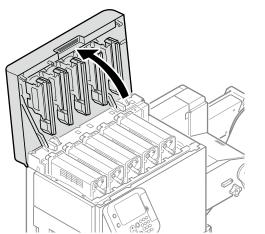


■ If you rotate the Sensor Position Adjustment Dial in direction A→the sensor position moves in the direction C

direction  $B{\rightarrow} the \mbox{ sensor position moves in the direction } D$ 

#### Printer

Grasping the Top Cover Open Lever, open the Top Cover.



2 Remove the Print Cartridge Set and the Belt Unit.



- Refer to "Maintenance Guide" for the procedure to install the print cartridge set and belt unit.
- Confirm the sensor position. Sensor Position Adjustment Dial Position During Regular Usage Factory setting is this position. 65 mm from edge of paper Edge of paper 58.5 mm from edge of paper 50 80 40 30 70 110 100 90 60 The " $\nabla$ " indicates the black mark sensor position The "|" indicates the gap sensor position

3

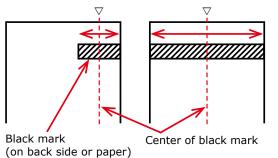
# (1) Check the black mark sensor position

Confirm the center of the black mark on the media and the black mark sensor position on the device (number on the  $\nabla$  indicator).

If the position of the black mark and the black mark sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 4).

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

Adjust the position of the " $\nabla$ " so it is in the center of the black mark of the media you are using.



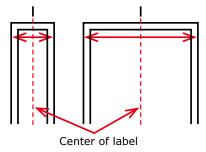
(2) Check the gap sensor position

Confirm the center of the label on the media and the gap sensor position on the device (number on the | indicator).

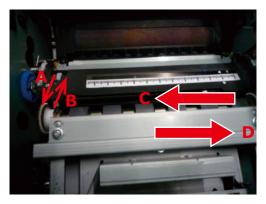
If the position of the label and the gap sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 4).

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

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



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



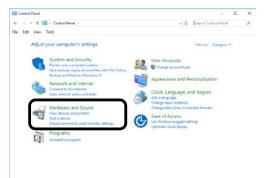
# Memo

 If you rotate the Sensor Position Adjustment Dial in direction A→the sensor position moves in the direction C direction B→the sensor position moves in the

direction  $B{\rightarrow} the \mbox{ sensor position moves in the direction } D$ 

#### Sensor Calibration

- 1 Click [Start] and select [Control Panel] in [Windows System].
- Olick [View devices and printers].



- **3** Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
- 4 On the [Setup] tab, click [User-defined paper].



- 5 Input information about the paper you want to register. To adjust settings that are already registered, select the names of the paper from the list in [Registered user-defined paper].
- 6 Click [Sensor Adjustment]. Add Plais label Overwrite Media Weight Delete 111.3 0 1 12.7 97.6 0 ( 25.4 -- 126.0 20 0 [ 20 -- 254 3016 0 [ 264 -- 1300 Right gap 0.0 0 [ -2.0 Ypgsition 0.0 0 ( -2.0 2.12 30 0 1 30 0.0 0 [ -0.5 Close Help Memo [Sensor Adjustment] appears if the following conditions are met. The Media Form is one of the following Continuous Paper (Black Mark) Die-cut Label (Gap) Die-cut Label (Black Mark) Continuous Label (Black Mark) The [Ports] of the printer driver is USB or standard TCP/IP port Before performing [Sensor Adjustment], make sure that the printer is "online". If [Sensor Adjustment] does not appear, advance to • step 12 of this procedure. Click [Next]. Sensor Adjustment Х Starts BlcakMark sensor adjustment. Information of the paper to be adjusted is as follows Paper Name : Label BM1 120x100 Paper form : Die-cut Label (Black Mark) Label length 111.3mm Label width : 97.6mm Gap : 3.0mm OKI Set applicable paper to the printer, and click [Next]. <Bac<u>k</u> Next> Cancle Memo Before performing the next steps of this procedure, make sure that paper is loaded.
  - If there are no paper size settings configured on the control panel, it may cause a paper size mismatch on the device. Pressing the <OK> button on the control panel overwrites the device paper size setting with the paper size setting in the printer driver.

8 Select a registration location (a) for the adjustment, and then enter a registration name (b).

		the registration of the registration d	destination. estination for adjustmer	t values from the f	ollowing list.
	No.	Status	Registered name		
	1	Unregistered	User settings 1		<b>—</b> (a)
ß	3 4 5 6 7 8 9 10	Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered Unregistered	User settings 3 User settings 4 User settings 5 User settings 7 User settings 7 User settings 8 User settings 9 User settings 10		
DKI	Registe	ered name:	190MM		<b>(</b> b)
	Input t	he registered nam	ne, and click [Next].		

#### Memo

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

#### Click [Next].

9

This starts the sensor adjustment and displays a wait message.

Sensor Adjustment					>	<
	Selects	the registration (	destination.			
	Select t	he registration d	estination for adju	stment values from	the following list.	
	No.	Status Unregistered	Registered nan	ne		
	2	Unregistered	User settings 1 User settings 2			
	23	Unregistered	User settings 3			
and the second second	4 5 6	Unregistered	User settings 4			
· · · · · //	5	Unregistered Unregistered	User settings 5 User settings 6			
••••////	2	Unregistered	User settings 7			
	8	Unregistered	User settings 8			
	9	Unregistered	User settings 9			
	10	Unregistered	User settings 10			
OTZT		_				
OKI	Register	red name:	90MM			
	Input th	e registered nan	ne, and click [Next	].		
			< <u>B</u> ack	<u>N</u> ext>	Cancel	
Sensor Adjustment					>	×
	Sensor	being adjusted.				
	Wait fo	r a while until se	nsor adjustment is	complete.		
OKI			0			
			<bac<u>k</bac<u>	<u>N</u> ext>	Cancel	

# When the completion screen appears, click [Complete].

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



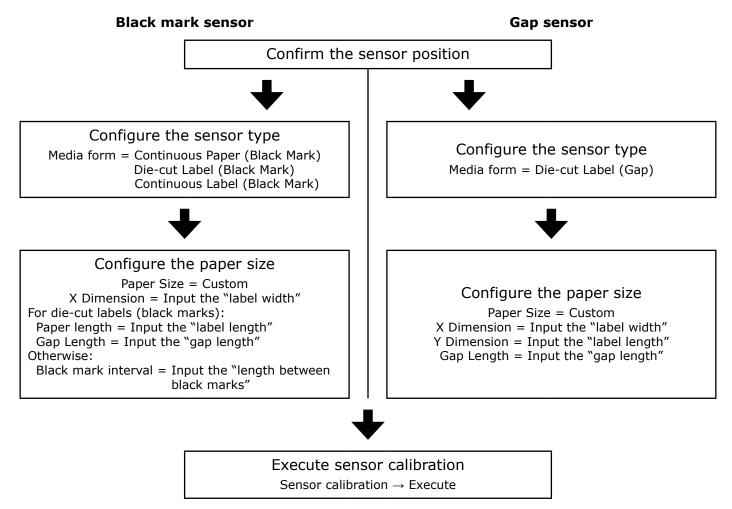
- The results of adjusting the sensor are registered on the printer. In [Sensor settings] in [User-defined paper] in the printer driver, you can specify the number registered in the printer for the adjustment results and whether to apply it when printing. By standardizing the registration numbers of the sensor adjustment results, you can get the same print results by specifying the same number in [Sensor settings] in the printer driver for any printer. This is useful when printing on the same media on multiple printers.
- **11** To register new settings, click [Add] or click [Overwrite] to select paper that is already registered.
- 12 Click [OK] or [Close] as many times as necessary to exit the "Printing preferences" screen.
- 3 Open

Open the file to be printed.

Specify a registered paper size, and then print.

## If You Cannot Set the Sensors from the Printer Driver

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



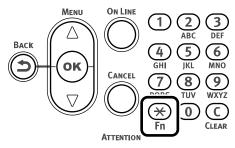
## **Calibrating the Black Mark Sensor**

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

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

Press the <Fn> key.

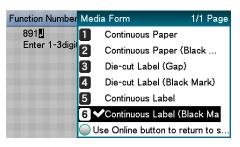
The numerical values input screen will be displayed.



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

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

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

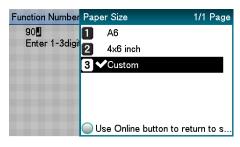


Press the <ON LINE> button to return to the standby screen.

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

Func	tion Nu	mber			
	0				
E	nter 1-	3digit N	lumber		

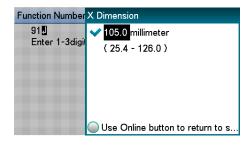
6 On the Paper Size menu, select [Custom], press the <OK> button, and then press the <ON LINE> button. The display will return to the standby screen.

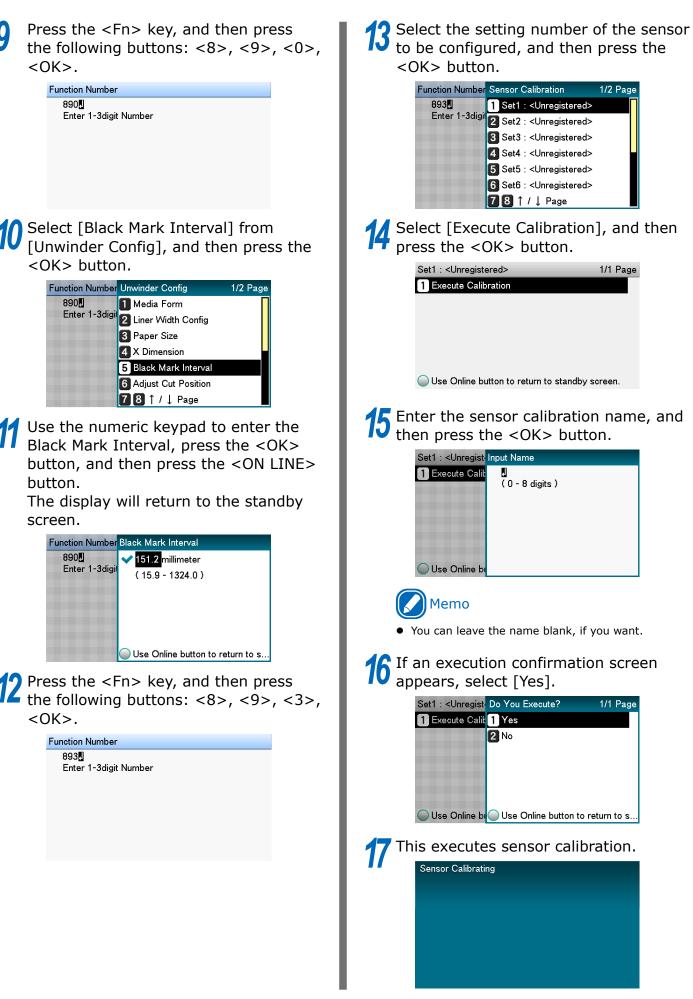


7 Press the  $\langle Fn \rangle$  key, and then press the following buttons:  $\langle 9 \rangle$ ,  $\langle 1 \rangle$ ,  $\langle OK \rangle$ .

Functior	n Number			
91 Ente	r 1-3digit N	Number		

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





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

Sensor Calibration Success

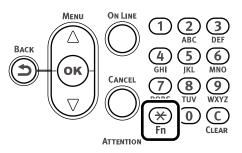
Press OK Button

## **Calibrating the Gap Sensor**

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

Press the <Fn> key.

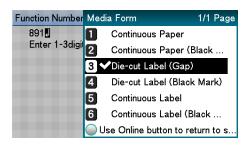
The numerical values input screen will be displayed.

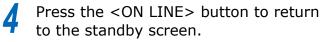


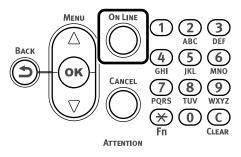
Press <8>, <9>, <1> (function numbers), and then press the <OK> button.

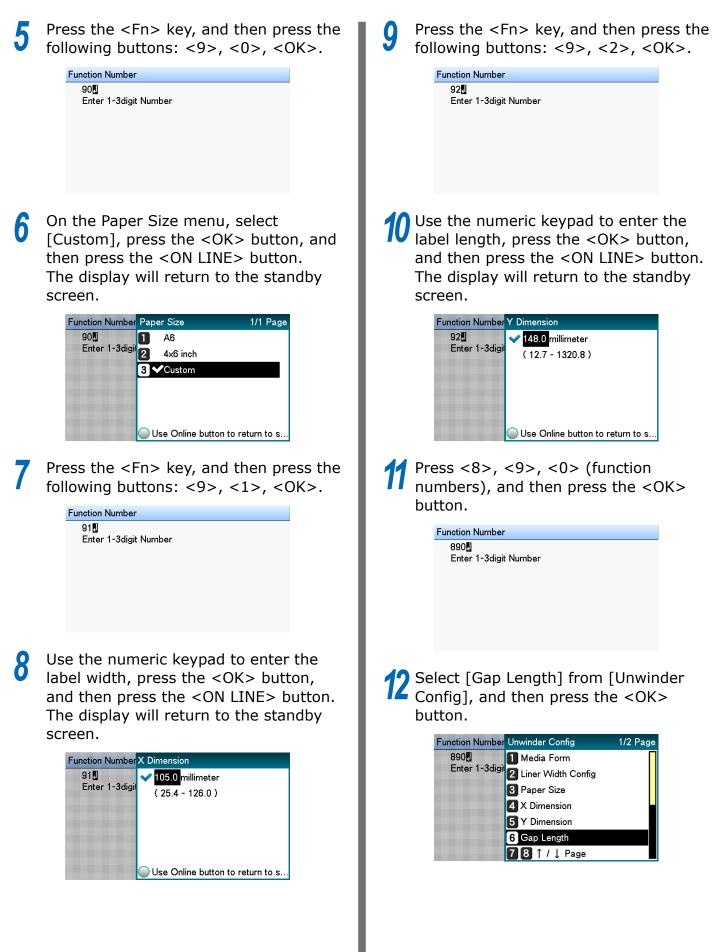
Function Number
891 🗓
Enter 1-3digit Number

Select [3. Die-cut Label (Gap)], and then press the <OK> button.









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

890	3.0 millimeter
Enter 1-3di	(3.0 - 10.0)

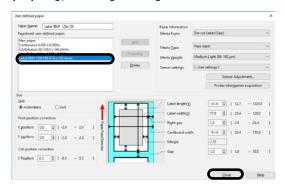
**14** From here, perform the same steps as those under "Calibrating the Black Mark Sensor" from step 12 of this procedure.

## Detecting the Interval between Pages

#### When executing from the printer driver

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

- 1 Click [Start] and select [Control Panel] in [Windows System].
- 2 Click [View devices and printers].
- **3** Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
- 4 On the [Setup] tab, click [User-defined paper].
- 5 After confirming that the paper name you entered in the "Paper Name" box is shown under [Registered user-defined paper], click [Close].



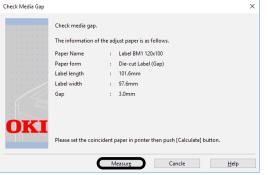
6 For [Paper settings], select the paper settings you registered, and then click [Paper interval detection].

	Iverlays Extend					
mple	Eavorites					
1	Current setting		~	Save	e	Management
2	Paper settings:	Label BM1 120x	100 97.6 x 101.6mm	n v		User-defined paper
3		Format: Media Type:	Die-cut Label (	Sap)	6	Paper interval detection.
3		Media Weight: Sensor Setting:	Medium Light 1. User settings			
5	Ogientation :	Portrait	Landscape	180*		Mirror Print

## Memo

- [Paper interval detection] is displayed if the following conditions are met.
  - The Media Form is one of the following Continuous Paper (Black Mark) Die-cut Label (Gap) Die-cut Label (Black Mark) Continuous Label (Black Mark)
  - The [Ports] of the printer driver is USB or standard TCP/IP port
- If [Paper interval detection] does not appear, advance to step 8 of this procedure.

## Confirm the displayed paper information, and then click [Measure].



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

Memo

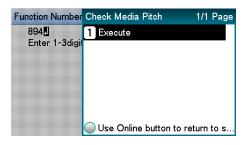
- If you change to another type of paper, you should execute this paper interval detection again.
- Click [OK] as many times as necessary to exit the "Printing preferences" screen.
  - Open the file to be printed.

Specify a registered paper size, and then print.

Q

## When executing from the control panel Detect the paper gap and black mark interval from the control panel. For black mark media, execute steps 1 to 11 in "Calibrating the Black Mark Sensor" (P.38). For gap media, execute steps 1 to 13 in "Calibrating the Gap Sensor" (P.40). Press the <Fn> key. Press <8>, <9>, <4> (function numbers) and then press the <OK> button. Function Number 894 Enter 1-3digit Number

Select [Execute], and then press the <OK> button to start paper interval detection and close the dialog box.



## Printing

After loading the paper, use the computer to open the file you want to print. Next, use the printer driver to select the [Paper settings], and then print.

## Memo

• When printing on label paper for the first time, execute [Sensor Adjustment] before printing.

## Reference

- For detailed explanations of the printer driver setup items, see "Online Help".
- For information about how to load paper, see "Loading Media" (P.24).

#### Windows PCL Printer Driver

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

1 2 3

Select [Page Setup] in the [File] menu.

Select the paper size and print orientation, and then click [OK].

- 3 On the [File] menu, click [Print] > [Print].
  - Click [Preferences].

On the [Setup] tab, configure [Paper settings].

sple	Eavorites			
1	Default setting	Ý	Şave	Management
2	Paper settings:	Continuous 4.000 x 6.000in	~	User-defined paper
3		Format: Continuous Paper Media Type: Plain		
4		Media Weight: Medium Light (96-1	140 µm)	
5	Orientation :	Portrait     O Landscape	180*	Mirror Print
6	Copies:	1 Collate		Print in reverse order
		To prioritize collation specified by a	pplication	
7	Cut Mode:	Only cut at the end of job	~	
8				
9	Quality:	Fine / Detail (1200 x 1200)	¥	Photo Enhance
H		Screeg: Prioritize resolutio	in V	
KI			About	Default

## Memo

- Configure the [Cut Mode] setting on the [Setup] tab as required.
- When the settings are complete, click [OK] in the "Setup" screen.
- Click [Print] in the "Print" screen to print.

When the screen shown below appears on the control panel, if the loaded media is incorrect, press the <UNLOAD> button to remove the loaded media and load the correct media. If the loaded media is correct, press the <OK> button.

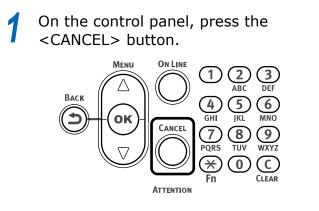
4	A Change paper in Unwinder					
		Press UNLOAD or OK Button				
	Please see HELP for details					
		! 🛛 Media Form	Continuous Paper			
		Paper Size	A6			
		! Media Type	Plain			

## Memo

- When Paper settings of the printer driver and the menu setting on the printer are not the same, the confirmation screen shown above appears on the control panel to prevent paper jams during printing and label pieces occurred during cutting.
- The different settings are indicated with "!" mark. Check if the loaded media matches the setting.
- When you reload media or press the <OK> button, the settings indicated with "!" mark will be overwritten to the printer.

## Canceling a Print Job

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



2 If a verification message appears, select [Yes], and then press the <OK> button.



# **Print Function Settings**

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- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- For detailed explanations of the printer driver and utility setup items, see "Online Help".
- Due to printer driver and utility version upgrades, actual operations may be different from the descriptions in this manual.

## Printer Driver Functions Table

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



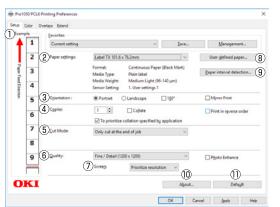
#### Reference

• For detailed explanations of the printer driver setup items, see "Online Help".

## **Explanation of Functions**

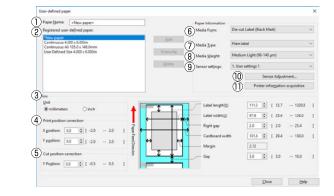
#### **Windows PCL Printer Driver Functions**

#### [Setup] Tab



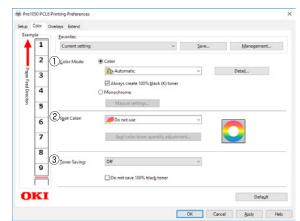
	Item	Description
1	Example	Shows what printing results will be based on current settings. This example is just an approximation and does not indicate the exact actual number of print pages and cut positions.
2	Paper settings	Specifies, from among registered paper settings, which one should be applied for printing.
3	Orientation	Specifies the print orientation.
4	Copies	Specifies the quantity to be printed.
5	Cut Mode	Specifies the timing to cut roll paper when cutting and printing on it.
6	Quality	Specifies the resolution during printing.
7	Screen	Specifies the halftoning available with the device.
8	User-defined paper	Click when using the driver to register paper settings to be used for printing.
9	Paper interval detection	Before printing to black mark or die-cut labels, click to execute learning on the device to improve the print position before starting. Note that executing this function will cause some paper to be used.
10	About	Displays the printer driver version information.
1	Default	Restores default settings.

#### [User-defined paper]



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

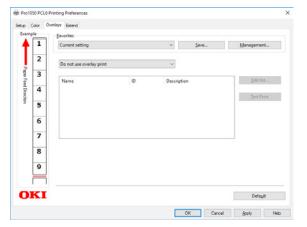
#### [Color] Tab



	Item	Description
1	Color Mode	Selects either color printing or monochrome printing. When color is selected, clicking [Detail] displays the "Detail" dialog box, which can be used to configure detailed color printing settings.
2	Spot Color*	Specifies how white toner should be used for printing.
3	Toner Saving	Specifies the print density when economizing on toner.

\*: This item available only on the Pro1050

#### [Overlays] Tab



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

#### [Extend] Tab

Exam		Eavori				
Paper Feed Direction	1		ent setting	×	Şave	Management
	2	1)	Watermarks	You can print data created b	y an application with a	a watermark over it.
	3					
	4	2	Fonţs	Makes settings related to Tr	ueType fonts and print	er fonts.
	5					
	6					
	7					
	8					
	9					
	KI				Advanged	Default

	Item	Description
1	Watermarks	Sets when implementing stamp printing.
2	Fonts	Configures TrueType and printer font settings.

## Table of Setting Items in the Control Panel Menu Screen

## **Device Setup Screen**

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

## [Configuration]

	Item		Description
Feeder Count	Unwinder	nnnnn	Displays the total print quantity for the unwinder. (This is the number of sheets converted into the A6 size paper from the length of paper fed from the unwinder.)
Supplies Life	Cyan Print Cartridge	Remaining nnn%	Shows the remaining service life (%) of each color's print cartridge.
	Magenta Print Cartridge	Remaining nnn%	
	Yellow Print Cartridge	Remaining nnn%	
	Black Print Cartridge	Remaining nnn%	
	White Print Cartridge *1	Remaining nnn%	
	Waste Toner Box	Remaining nnn%	Shows the remaining service life (%) of the waste toner box.
	Belt	Remaining nnn%	Shows the remaining service life (%) of the belt unit.
	Fuser	Remaining nnn%	Shows the remaining service life (%) of the fuser unit.

	Item		Description
Network	Printer Name	********* ********** *******	Shows the printer name used by the DNS and Network PnP.
	Short Printer Name	****** ******	Displays the short printer name.
	IPv4 Address	xxx.xxx.xxx. xxx	Shows the IP address. When TCP/IP is enabled, shows the setup of the following control panel setting [Admin Setup] > [Network Setup] > [IPv4 Address].
	Subnet Mask	xxx.xxx.xxx. xxx	Displays the subnet mask. When TCP/IP is enabled, shows the setup of the following control panel setting [Admin Setup] > [Network Setup] > [Subnet Mask].
	Gateway Address	xxx.xxx.xxx. xxx	Displays the gateway address. When TCP/IP is enabled, shows the setup of the following control panel setting [Admin Setup] > [Network Setup] > [Gateway Address].
	MAC Address	xx:xx:xx: xx:xx:xx	Shows the MAC address.
	Network FW Version	xx.xx	Shows the network firmware version.
	Web Remote Version	xx.xx	Shows the web page version.
	IPv6 Address (Local)	xxxx:xxxx:xx xx:xxxx:xxxx :xxxx:xxxx xxx xxx	Shows the (local) IPv6 address. This menu is not displayed when TCP/IP is disabled or when the IP version is IPv4.
	IPv6 Address (Global)	xxxx:xxxx:xx xx:xxxx:xxxx :xxxx:xxxx xxx xxx	Shows the (global) IPv6 address. This menu is not displayed when TCP/IP is disabled or when the IP version is IPv4.
System	Serial Number	xxxxxxxxxx xxxxxxxxxx xxxxxxx	Displays the serial number.
	Asset Number	xxxxxxxxxx xxxxxxxxxx xxxxxxxxxxx	Displays the asset number of the printer manager.
	Firmware Version	xxx.xx_x_x	Shows the version number of FirmSuite.
	CU Version	xx.xx	Displays the control unit firmware version.
	PU Version	xx.xx.xx	Displays the printer unit firmware version.
	RAM	ххМВ	Shows the total availability of all mounted RAM.
	Flash Memory	xxMB[Fxx]	Displays the total availability of all flash memory and flash system versions installed.
	HDD	xx.xxGB [Fxx]	Displays the HDD size and file system version installed.
	Date and Time	mm/dd/yyyy or	Displays the current date and time.
		dd/mm/yyyy	

## [Print Information]

Ite	em		Description
Configuration		Execute	Prints the device setup details.
Demo Page	DEMO1	Execute	Prints the demo pages.
File List		Execute	Prints the file list.
Usage Report *2		Execute	Prints the total print results.
Error Log		Execute	Prints the error log.
Color Profile List		Execute	Prints the color profile list.
User Media List <sup>*3</sup>		Execute	Prints the user media list.
Test Print-1		Execute	Prints the patterns for analyzing the print quality.
Test Print-2		Execute	Prints the patterns for analyzing the CMYK print quality.
Test Print-3		Execute	Prints the patterns for analyzing the status of the print cartridges.
Test Print-4 <sup>*1</sup>		Execute	Prints the patterns for analyzing print quality of the spot colors.
Cleaning Page		Execute	Prints the toner-free white sheet to remove dirt from the surface of the fuser belt in the fuser unit.

\*1: Displayed with Pro1050 only.

\*2: Not displayed if [Disable] is set for the control panel [Print Statistics] > [Usage Report] item.

\*3: Displayed when the user media is registered.

## [Menus]

#### Unwinder Config

• Shaded areas are factory-set values.

Item		Value	Description
Media Form <sup>*2</sup>		Continuous Paper Continuous Paper (Black Mark) Die-cut Label (Gap) Die-cut Label (Black Mark) Continuous Label Continuous Label (Black Mark)	Specifies the shape of the roll paper.
Liner Width Config	Liner Width Mode	Auto Custom	Specifies the mode for setting the width of the label's liner. Auto: The width of the liner is set given that the label is in the center of the liner. Custom: The width of the liner is input and the left gap is calculated given that the left and right gaps are different.
	Liner Width <sup>*2</sup>	29.4 millimeter (1.16 inch) ↓ 105.6 millimeter (4.16 inch) 109.0 millimeter (4.29 inch) ↓ 130.0 millimeter (5.12 inch)	Inputs the width of the liner. Appears when the [Liner Width Mode] is [Custom]. The initial values vary depending on your operating environment.
	Right Gap <sup>*2</sup>	2.0 millimeter (0.08 inch) 25.4 millimeter (1.00 inch)	Specifies the distance from the right edge of the label to the right edge of the liner.
Paper Size <sup>*3</sup>		A6 4x6 inch Custom	Sets the size of the paper for the unwinder. The initial values vary depending on your operating environment.
X Dimension <sup>*3</sup>		25.4 millimeter (1.00 inch) ≥ 101.6 millimeter (4.00 inch) 105.0 millimeter (4.13 inch) ≥ 126.0 millimeter (4.96 inch) <sup>*1</sup>	Sets the width of the custom paper sizes for the unwinder. Sets the dimension perpendicular to the paper feed direction. The initial values vary depending on your operating environment.

\*1: 130.0 mm (5.12 inch) if the [Media Form] is [Continuous Paper] or [Continuous Paper (Black Mark)]

\*2: Changes the setting values according to the driver setting during printing.

\*3: Changes the setting values according to the driver setting during printing (except for when Media Form is set to [Continuous Paper] in the driver setting).

		<ul> <li>Shaded areas are factory-set values.</li> </ul>
Item	Value	Description
Y Dimension <sup>*3</sup>	12.7 millimeter (0.50 inch) ↓ 101.6 millimeter (4.00 inch) ↓ 148.0 millimeter (5.83 inch) 152.4 millimeter (6.00 inch)	Sets the length of the custom paper sizes for the unwinder. Sets the same direction as for the dimension in the paper feed direction. If the setting is 101.6 mm (4.00 inch) or lower, then the set page length is handled as a whole-number multiple of the actual length of the page such that it exceeds 101.6 mm (4.00 inch).
	<pre></pre>	The initial values vary depending on your operating environment. Appears when the Media Form is [Continuous Paper], [Die-cut Label (Gap)], [Die-cut Label (Black Mark)] or [Continuous Label].
Black Mark Interval <sup>*2</sup>	15.9 millimeter (0.63 inch) 2 101.6 millimeter (4.00 inch) 2 151.2 millimeter (5.95 inch) 155.6 millimeter (6.13 inch) 2 1324.0 millimeter (52.13 inch)	Sets the interval of the marks on custom paper for the unwinder. Sets the same direction as for the dimension in the paper feed direction. If the setting is 104.8 mm (4.13 inch) or lower, then the set page length is handled as a whole-number multiple of the actual length of the page such that it exceeds 101.6 mm (4.00 inch). The initial values vary depending on your operating environment. Appears when the Media Form is [Continuous Paper (Black Mark)] or [Continuous Label (Black Mark)].
Gap Length <sup>*2</sup>	3.0 millimeter (0.12 inch) 2 10.0 millimeter (0.39 inch)	Sets the interval for labels. Sets the same direction as for the dimension in the paper feed direction. Appears when the Media Form is [Die-cut Label (Gap)] or [Die-cut Label (Black Mark)].
Adjust Cut Position	-0.5 millimeter (-0.02 inch) 2 0.0 millimeter (0.00 inch) 2 +0.5 millimeter (+0.02 inch)	Specifies the compensation value for the distance from the print completion position to the cut position (beginning of next label). (Specifies margin on following edge) If you specify a negative value, cutting is done at a short position.

\*2: Changes the setting values according to the driver setting during printing.

\*3: Changes the setting values according to the driver setting during printing (except for when Media Form is set to [Continuous Paper] in the driver setting).

		Shaded areas are factory-set values.
Item	Value	Description
Media Type <sup>*2</sup>	Plain Plain Labels Glossy Labels Film Labels1 Film Labels2 Film1 Film2 USERTYPE1 <sup>*1</sup> USERTYPE3 <sup>*1</sup> USERTYPE4 <sup>*1</sup> USERTYPE6 <sup>*1</sup> USERTYPE6 <sup>*1</sup> USERTYPE7 <sup>*1</sup> USERTYPE1 <sup>*1</sup> USERTYPE11 <sup>*1</sup> USERTYPE12 <sup>*1</sup> USERTYPE12 <sup>*1</sup> USERTYPE13 <sup>*1</sup> USERTYPE15 <sup>*1</sup> USERTYPE16 <sup>*1</sup> USERTYPE16 <sup>*1</sup> USERTYPE17 <sup>*1</sup> USERTYPE18 <sup>*1</sup> USERTYPE18 <sup>*1</sup> USERTYPE19 <sup>*1</sup> USERTYPE19 <sup>*1</sup>	Sets the type of the paper for the unwinder.
Media Weight	Light Medium Light Medium Medium Heavy Heavy Ultra Heavy1 Ultra Heavy2 Ultra Heavy3	Sets the thickness of the paper for the unwinder.
Sensor Setting <sup>*2</sup>	Set1 :         Set2 :         Set3 :         Set4 :         Set5 :         Set6 :         Set7 :         Set8 :         Set9 :         Set10 :	<ul> <li>Sets the sensitivity of the gap sensor or black mark sensor.</li> <li>Only the adjusted sensor setting is displayed.</li> <li>Appears when the [Media Form] is something other than [Continuous Paper] or [Continuous Label].</li> </ul>

• Shaded areas are factory-set values.

\*1: USERTYPE 1 to 20 are displayed when they are registered.

\*2: Changes the setting values according to the driver setting during printing.

	Iten	n		Value	Description
Sensor Calibration	Set1 : Set2 :	Execute	Calibration	Execute	Executes calibration of the gap sensor or black mark sensor.
	Set3 : Set4 : Set5 : Set6 : Set7 : Set8 : Set9 : Set10 :	Adjust Slice Level	Reflective Sensor in Unwinder	0 2 1023	Fine tunes the sensitivity of the reflective sensor in the unwinder that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the black mark sensor is used.
	SellU.		Reflective Sensor in Printer	0 2 1023	Fine tunes the sensitivity of the reflective sensor in the device that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the black mark sensor is used.
			Transmission Sensor in Unwinder	0 2 1023	Fine tunes the sensitivity of the transmission sensor in the unwinder that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the gap sensor is used.
			Transmission Sensor in Printer	0 2 1023	Fine tunes the sensitivity of the transmission sensor in the device that was measured during Sensor Calibration. The default value fluctuates according to the results of the calibration. Appears when the gap sensor is used.
		Change	Name	Execute	You can change the name of the specified setting numbers. You can use up to eight characters of single-byte upper case English and numbers.
		Reset S	etting	Execute	Initializes the content of the specified setting numbers.
Check Media	Check Media Pitch		Execute	Measures the intervals on the paper. Appears when the [Media Form] is something other than [Continuous Paper] or [Continuous Label].	

## ■ Cutter Setup

Item	Value	Description
Cut Mode	Job Collation Specified Interval	Specifies the cutting operation. Job: Cuts at the end of a job. Collation: Cuts at the end of the job and at the end of the job collation. Specified Interval: Cuts in units of the specified number of pages. Cuts at the end of the collation/job.
Cut Interval	1 2 9999	Sets how many pages are cut each time. Appears when the [Cut Mode] is [Specified Interval].

## System Adjust

		Shaded areas are factory-set values.
Item	Value	Description
Power Save Time	1 minute 2 minutes 3 minutes 4 minutes 5 minutes 10 minutes 15 minutes 30 minutes 60 minutes	Sets the time until the printer enters power save mode.
Auto Power Off Time	1 hour 2 hours 3 hours 4 hours 8 hours 12 hours 18 hours 24 hours	Sets the time until the printer enters OFF mode from stand-by status.
Clearable Warning	ONLINE Job	Sets the timing until clearable warning display turns OFF.
Timeout InJob	Off 5 seconds 10 seconds 20 seconds 30 seconds 40 seconds 50 seconds 120 seconds 150 seconds 180 seconds 210 seconds 240 seconds 240 seconds 300 seconds	Sets the time from loss of the receipt of data until force-printing. With PS, the job is canceled without printing.
Timeout Local	0 seconds 5 seconds 40 seconds 2 290 seconds 295 seconds 300 seconds	Sets the time for each port to be kept opened after printing. (Excludes network)
Timeout Network	0 seconds 5 seconds 2 90 seconds 2 290 seconds 295 seconds 300 seconds	Sets the time for the network port to be kept opened after printing.
Error Report	On Off	Specifies whether to print error reports when an internal PCL or PS error occurs.
Hex Dump	Execute	Prints received data in QR code. Turn off the power to stop printing the hex dump. Do not use die-cut labels since media is cut to fixed length when the hex dump is printed.

## Print Adjust

]	ltem	Value	Description
Print Position Adjust	X Adjust	0.00 millimeters +0.1 millimeters 2 +2.00 millimeters -2.00 millimeters 2 -0.1 millimeters	Adjusts the overall image print position perpendicularly (horizontally) in the direction of paper feed (0.1 mm intervals).
	Y Adjust	0.00 millimeters +0.1 millimeters 2 +2.00 millimeters -2.00 millimeters 2 -0.1 millimeters	Adjusts the overall image print position in the direction of paper feed (vertically) (0.1 mm intervals).
Paper Edge Detect Mode		Mode1 Mode2 Off	Set the action of the controls for the leading edge of the media to avoid image skew and detection position skew of the leading edge of labels. Mode1: For long leading edges, this setting automatically cuts/ outputs and then starts printing. For short leading edges, printing just starts. (Applicable for the gap/ black mark setting) Mode2: For short or long leading edges, this setting automatically cuts/outputs and then starts printing for both situations. (Applicable for the gap/black mark setting if the leading edge is long. If the leading edge is short, then only the gap setting is applicable.) Off: With this mode, the user straightens the leading edge so paper is not wasted. (Applicable for the gap/black mark setting)
Roll Paper End Detect Mode		Auto Stop Forced Cut	Sets the control for ejecting the trailing edge of the paper to auto, stop feeding, or forced cut. Auto: With this mode, the trailing edge is processed appropriately according to the media. Stop: With this mode, feed is forced to stop when the trailing edge of the paper is detected, regardless of the length or type of media. Forced Cut: With this mode, the system is forced to cut and eject the paper when the trailing edge of the paper is detected, regardless of the length or type of media.
Media Transfer	Setting Black	0 +1 +2 +3 -3 -2 -1	Performs fine adjustment if black is faded or tiny white spots appear when printing with the black (K) print cartridge only (when printing with the YMCW print cartridges are raised). Lower the setting value if there are only fewer white spots, or raise the setting value if the high-density portion is thinner.
Media Transfer	Setting Color	0 +1 +2 +3 -3 -2 -1	Performs fine adjustment if colors are faded or tiny white spots appear when printing with two or more print cartridges or just the white (W) print cartridge. Lower the setting value if there are only fewer white spots, or raise the setting value if the high-density portion is thinner.

• Shaded areas are factory-set values.

	Item	Value	Description
SMR Setting	Cyan	0	<ul> <li>Compensates for uneven print density due to temperature and humidity, and printing quantity, using cyan. Raise the setting value if it is blurred. Lower the setting value if the density darkens partially.</li> <li>* Continued use with the setting value raised has a risk of printing stains.</li> <li>* Continued use with the setting value lowered has a risk of blurring.</li> </ul>
	Magenta	0	<ul> <li>Compensates for uneven print density due to temperature and humidity, and printing quantity, using magenta. Raise the setting value if it is blurred. Lower the setting value if the density darkens partially.</li> <li>* Continued use with the setting value raised has a risk of printing stains.</li> <li>* Continued use with the setting value lowered has a risk of blurring.</li> </ul>
	Yellow	0	<ul> <li>Compensates for uneven print density due to temperature and humidity, and printing quantity, using yellow. Raise the setting value if it is blurred. Lower the setting value if the density darkens partially.</li> <li>* Continued use with the setting value raised has a risk of printing stains.</li> <li>* Continued use with the setting value lowered has a risk of blurring.</li> </ul>
	Black	0	<ul> <li>Compensates for uneven print density due to temperature and humidity, and printing quantity, using black. Raise the setting value if it is blurred. Lower the setting value if the density darkens partially.</li> <li>* Continued use with the setting value raised has a risk of printing stains.</li> <li>* Continued use with the setting value lowered has a risk of blurring.</li> </ul>
	White <sup>*1</sup>	0	<ul> <li>Compensates for uneven print density due to temperature and humidity, and printing quantity, using white. Raise the setting value if it is blurred. Lower the setting value if the density darkens partially.</li> <li>* Continued use with the setting value raised has a risk of printing stains.</li> <li>* Continued use with the setting value lowered has a risk of blurring.</li> </ul>

• Shaded areas are factory-set values.

Item	Value	Description	
BG Setting Cyan	0 +1 +2 +3 -3 -2 -1	Compensates for print results variation due to differences in the temperature and humidity, using cyan. Lower the setting value if the underlay is dark. * Continued use with the setting value lowered has a risk of printing stains.	
Magenta	0 +1 +2 +3 -3 -2 -1	Compensates for print results variation due to differences in the temperature and humidity, using magenta. Lower the setting value if the underlay is dark. * Continued use with the setting value lowered has a risk of printing stains.	
Yellow	0 +1 +2 +3 -3 -2 -1	Compensates for print results variation due to differences in the temperature and humidity, using yellow. Lower the setting value if the underlay is dark. * Continued use with the setting value lowered has a risk of printing stains.	
Black	0 +1 +2 +3 -3 -2 -1	Compensates for print results variation due to differences in the temperature and humidity, using black. Lower the setting value if the underlay is dark. * Continued use with the setting value lowered has a risk of printing stains.	
White <sup>*1</sup>	0 +1 +2 +3 -3 -2 -1	Compensates for print results variation due to differences in the temperature and humidity, using white. Lower the setting value if the underlay is dark. * Continued use with the setting value lowered has a risk of printing stains.	
Drum Cleaning	On Off	Sets whether to implement drum cleaning before printing. The image quality may be improved.	
Transfer Roller Cleaning	Execute	Implements cleaning of the 2nd transfer roller unit.	

Shaded areas are factory-set			Shaded areas are factory-set values.
	Item	Value	Description
Transfer Setting	Cyan Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for cyan, green and blue toner. Raise the setting value if the high-density portion of cyan, green and blue is thinner.
	Magenta Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for magenta and/or red toner. Raise the setting value if the high-density portion of magenta and/or red is thinner.
	Yellow Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for yellow toner. Raise the setting value if the high-density portion of yellow is thinner.
	Black Transfer Setting	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe white dots and dark streaks appear for black toner. Raise the setting value if the high-density portion of black is thinner.
	White Transfer Setting <sup>*1</sup>	0 +1 +2 +3 -3 -2 -1	Lower the setting value if lateral-stripe voids and dark streaks appear for white toner. Raise the setting value if the high-density portion of white is thinner.
DV Roller Cle		On Off	Adjust the toner disposal threshold. On: Image quality priority Off: Toner life priority
DV Roller Cleaning 2		Mode 1 Mode 2 Off	May be effective in reducing lateral striping caused by variations in ambient temperature and/or humidity. Try mode 2 if desired results are not produced by mode 1.

## [Admin Setup]



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

#### Network Setup

• Shaded areas are factory-set values.

Item	Value	Description
TCP/IP	Enable Disable	Enables/disables TCP/IP protocols.
NetBIOS over TCP <sup>*1</sup>	Enable Disable	Enables/disables NetBIOS over TCP/IP.
IP Address Set <sup>*1</sup>	Auto Manual	Specifies whether to request the IP address from the DHCP server.
IPv4 Address <sup>*1 *2</sup>	xxx.xxx.xxx. xxx	Sets the IP address.
Subnet Mask *1 *2	xxx.xxx.xxx. xxx	Sets the subnet mask.
Gateway Address *1 *2	xxx.xxx.xxx. xxx	Sets the gateway address.
Web *1	Enable Disable	Enables/disables access using web browsers.
Telnet *1	Enable Disable	Enables/disables access using Telnet.
FTP *1	Enable Disable	Enables/disables access using FTP.
IPSec *1	Enable Disable	Enables/disables access using IPsec.
SNMP *1	Enable Disable	Enables/disables access using SNMP.
Network Scale	Normal Small	Normal: Printer operates effectively even if connected to a hub with spanning tree functions. However, printer startup time becomes longer when two or three computers are connected to a small-scale LAN. Small: Covers small scale LANs with 2 or 3 PCs to large scale LANs are covered, but if connected to a hub with spanning tree functions, operations may not be effective.
Gigabit Network	Enable Disable	Sets whether to support a Gigabit network.
Hub Link Setting	Auto Negotiate 100Base-TX Full 100Base-TX Half 10Base-T Full 10Base-T Half	
Network Factory Defaults *1: Appears when [Enable] is set on the control pa	Execute	Restores the settings, such as network, mail server, LDAP server, and secure protocol server, etc., to their default values.

\*1: Appears when [Enable] is set on the control panel for [TCP/IP].

\*2: Appears when [Manual] is set on the control panel for [IP Address Set].

#### ■ USB Setup

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

## Print Setup

	Item	Value	Snaded areas are factory-set values.     Description
Personality		Auto	Select the print language. Print language switching
		PCL PostScript	is automatic when set to [Auto].
Copies		1 ~ 9999	Sets the copy quantity. This setting is ignored in case of local print. This setting is disabled unless the [Job Copy] setting is 1.
Job Copy		1 2 999	Sets the print quantity. This setting is ignored in case of local print. The settings in the printer driver always overwrite these settings. * This setting is enabled only if [Collate] is checked and 1 is specified as the number of copies in the
			PCL printer driver.
Edge to Edge		On Off	Sets the print margin.
Resolution		600dpi 1200dpi	Sets the resolution.
Toner Save	Toner Save Level	Off Low Middle High	Set the toner save quantity. Specifies [Off] when toner save mode is disabled.
	Color	All Except 100% Black	<ul> <li>All:</li> <li>All colors, including 100% black, comprise all the target colors for toner saving.</li> <li>Except 100% Black:</li> <li>All colors, excluding 100% black, comprise all the target colors for toner saving.</li> </ul>
Check Unnece	essary Print Cartridge	On Off	Set whether to generate an error or continue printing when a print cartridge is detected to be down even though it is not being used as a specified color for the print data. On: An error is displayed and the print job is cancelled, to give priority to the service life of the print cartridge. Off: A warning screen is displayed, but printing continues because priority is given to productivity.
Default Orien	tation	Portrait Landscape	Sets the print orientation.
Trapping		Off Narrow Narrow / Choke White Wide	Sets trapping. [Narrow/Choke White], [Wide/Choke White], and [Choke White] are displayed for the Pro1050 only.
		Wide / Choke White Choke White	

#### PS Setup

• Shaded areas are factory-set values.

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

#### ■ PCL Setup

• Shaded areas are factory-set values.

Item	Value	<ul> <li>Shaded areas are factory-set values.</li> <li>Description</li> </ul>
Font Source	Resident	Sets the location of the fonts to be used.
Facet Nuccelo a *1	Downloaded	Cata the numbers of the fourte to be used
Font Number <sup>*1</sup>	I0 S1	Sets the numbers of the fonts to be used.
Font Pitch	0.44 CPI	Sets the font width.
	2	Increases and reduces in 0.01 CPI units.
	10.00 CPI	Displayed when the font selected using [Font
		Number] is an outline font with fixed spacing.
Fact Haisht	99.99 CPI	Cata the feet height
Font Height	4.00 points	Sets the font height. Increases and reduces in 0.25 point units.
	12.00 points	Displayed when the font selected using [Font
	2	Number] is an outline font with variable spacing.
	999.75 points	
Symbol Set	PC-8	Select the symbol set.
	PC-8 Dan/Nor PC-8 Grk	
	PC-8 TK	
	PC-775	
	PC-850	
	PC-851 Grk	
	PC-852	
	PC-855 PC-857 TK	
	PC-858	
	PC-862 Heb	
	PC-866	
	PC-866 Ukr	
	PC-869	
	PC-1004 Pi Font	
	Plska Mazvia	
	PS Math	
	PS Text	
	Roman-8	
	Roman-9	
	Roman Ext	
	Serbo Croat1 Serbo Croat2	
	Spanish	
	UCS-2	
	Ukrainian	
	VN Int'l	
	Win 3.1 Blt	
*1. Defer to "Decident Fonte" (D.71) about the Fon	VN Math VN US Win 3.0 Win 3.1 L/G Win 3.1 Blt	

\*1: Refer to "Resident Fonts" (P.71) about the Font Number to be used.

		<ul> <li>Shaded areas are factory-set values.</li> </ul>
Item	Value	Description
Symbol Set	Kamenicky Legal Math-8 MC Text MS Publish PC Ext D/N PC Ext US PC Set1 PC Set2 D/N PC Set2 US	Select the symbol set.
CR Function	CR CR+LF	Specifies the operation when a CR code is received.
LF Function	LF LF+CR	Specifies the operation when an LF code is received.
Print Margin	Normal 1/5 inch 1/6 inch 1/8 inch 1/12.5 inch	Sets the area of the paper where printing is not possible.
True Black	On Off	Specifies whether to use mixed CMYK or black toner only for printing black of image data.
Pen Width Adjust	On Off	Compensates so that thin lines are visible.

## Color Setup

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

#### Panel Setup

• Shaded areas are factory-set values.

Item	Value	Description
Idle Display	Supplies Life Unwinder Config	Sets the information displayed in the standby screen.
Panel Brightness During Operation	5 2 31	Adjusts the brightness (backlight luminosity) of the control panel LCD. The set brightness is applied during control panel operations.
Panel Brightness While Power Save	0 2 1 2 31	Adjusts the brightness (backlight luminosity) of the control panel LCD. The set brightness is applied after the panel backlight timer time has elapsed from the last operation.
Panel Backlight Timer	10 2 30 2 300	Adjusts the time (in seconds) from the last operation until [Panel Brightness While Power Save] is applied.

## ■ Time Setup

Shaded areas are factory-set values.

Item	Value	Description
Date Format	yyyy/mm/dd mm/dd/yyyy dd/mm/yyyy	Sets the date display mode. The initial values vary depending on your operating environment.
Time Zone	-12:00	Sets the time difference from GMT in 15-minute units. If the time zone setting is changed, the time differences before and after the change are reflected in the current time.
Daylight Saving	On Off	Sets whether to display daylight saving time. On: Sets the current time 1 hour forward. Off: Sets the current time 1 hour back.
Time Setting	2000/01/01 00 :00 2 2091/12/31 23 :59	Sets the time.

#### Power Setup

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

## Others Setup

	Item	Value	Description
RAM Setup	Receive Buffer Size	Auto 0.5 MB 1 MB 2 MB 4 MB 8 MB 16 MB 32 MB	Sets the incoming buffer size that is assured by the local interface.
	Resource Save	Auto Off 0.5 MB 1 MB 2 MB 4 MB 8 MB 16 MB 32 MB	Sets the resource saving area size.
Storage Common Setup	Check File System	Execute	Implements management data (FAT information) recovery, and resolves mismatches between the actual (free) space in the file system and the free space displayed.
	Check All Sectors	Execute	Recovers defective sector information on the HDD and file system nonconformances.
	Enable Initialization	No Yes	Specifies whether or not to authorize setup changes associated with HDD and flash memory initialization.
Language Setup	Select Language	Chinese English French German Italian Japanese Russian Spanish	Specifies the control panel display language.
	Language Initialize	Execute	Deletes the message files that have been downloaded. Also, the [Select Language] setting returns to the factory default setting.
Job Cancel Setup	Cancel Key Behavior	Short Long Off	Sets the operations when the device <cancel> button is pressed. Short: Hold down no longer than two seconds to cancel the print job. Long: Hold down for 2 to 5 seconds to cancel a print job. Off: Disables the <cancel> button.</cancel></cancel>
	Inquiry Display	On Off	Sets whether to display the enquiry screen when a job is canceled.
	Focus Position	Yes No	Sets whether to apply [Yes] or [No] focus for selection in the job cancellation enquiry screen.
	Display Timeout	60 2 180 2 300	Sets the display timeout value for the enquiry screen when a job is canceled.

			<ul> <li>Shaded areas are factory-set values.</li> </ul>
	Item	Value	Description
Media Operation Setup	Inquiry Display	On Off	Specifies the operation when the <feed> button or the <unload> button is pressed. On: In the cases below, a confirmation screen is displayed before the operation is executed. <feed>: When the paper changes from a stand-by state to a through paper state <unload cut="">: When cut is executed Off: Operation is performed without displaying a confirmation message.</unload></feed></unload></feed>
	Rewinder Distance	600 millimeter (24 inch) 900 millimeter (36 inch) 1200 millimeter (48 inch)	Specifies the amount to be fed when the <feed> button is pressed in the stand-by state, using the output slot as the reference point.</feed>
	Feed Distance	150 millimeter (6 inch) 300 millimeter (12 inch) 450 millimeter (18 inch)	Specifies the amount to be fed when the <feed> button is pressed in the through paper state, using the current position as the reference point.</feed>

#### Settings

• Shaded areas are factory-set values.

	· · · · · ·
Value	Description
Execute	Restores the user menu settings to the factory settings.
Execute	Saves the current menu settings.
Execute	Changes the saved menu settings.
	Execute Execute

\*1: Displayed when [Save Settings] is executed on the control panel.

#### ■ Change Password

• Shaded areas are factory-set values.

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

#### Resident Fonts

Item	Font Name List
10	Courier
I1	Courier Bold
12	Courier Italic
13	Courier Bold Italic
I4	CG Times
15	CG Times Bold
16	CG Times Italic
17	CG Times Bold Italic
18	CG Omega

Item	Font Name List
19	CG Omega Bold
I10	CG Omega Italic
I11	CG Omega Bold Italic
I12	Coronet
I13	Clarendon Condenced
I14	Univers Medium
I15	Univers Bold
I16	Univers Medium Italic
I17	Univers Bold Italic
I18	Univers Medium Condensed
I19	Univers Bold Condensed
120	Univers Medium Condensed Italic
I21	Univers Bold Condensed Italic
122	Antique Olive
123	Antique Olive Bold
124	Antique Olive Italic
125	Garamond Antique
126	Garamond Halbfett
127	Garamond Kursiv
128	Garamond Kursiv Halbfett
129	Marigold
130	Albertus Medium
I30 I31	Albertus Extra Bold
132	Letter Gothic
132	Letter Gothic Bold
135	Letter Gothic Italic
135	Arial
136	Arial Bold
137	Arial Italic
137	Arial Bold Italic
139	Times New
135	Times New Bold
I40 I41	Times New Italic
I42	Times New Bold Italic
I42 I43	ITC Avant Garde Gothic Book
I44	ITC Avant Garde Gothic Demi
I45	ITC Avant Garde Gothic Book Oblique
I45 I46	ITC Avant Garde Gothic Dook Oblique
I47	ITC Bookman Light
I47 I48	ITC Bookman Demi
I48 I49	ITC Bookman Light Italic
149	ITC Bookman Demi Italic
150	Courier PS
151	Courier PS Bold
152	Courier PS Oblique
153	Courier PS Bold Oblique
154	Helvetica
172	

Item	Font Name List
156	Helvetica Bold
157	Helvetica Oblique
158	Helvetica Bold Oblique
159	Helvetica Narrow
160	Helvetica Narrow Bold
I61	Helvetica Narrow Oblique
162	Helvetica Narrow Bold Oblique
163	New Century Schoolbook Roman
164	New Century Schoolbook Bold
165	New Century Schoolbook Italic
166	New Century Schoolbook Bold Italic
167	Palatino Roman
168	Palatino Bold
169	Palatino Italic
170	Palatino Bold Italic
171	Times Roman
172	Times Bold
173	Times Italic
174	Times Bold Italic
175	ITC Zapf Chancery Medium Italic
176	Symbol
177	Symbol PS
178	Wingdings
179	ITC Zapf Dingbats
180	OCRB Subset2
I81	Line Printer
182	OCR-A
183	OCR-B
184	USPS POSTNET Bar Codes

♦Scalable: 81 fonts (No.IO-80)

♦Bitmap: 4 fonts (No.I81-84)

♦ Total 85 fonts

## [Print Statistics]



- To enter this menu, it is necessary to enter the [Password].
- In the default factory settings, the password is [0000].

• Shaded areas are factory-set values.

	Item	Value	Description
Usage Report	age Report		Enables/disables the Usage Report function.
Supplies Report*	1	Enable Disable	Sets whether or not to display the number of consumables replacements.
Reset Main Coun	ter <sup>*1</sup>	Execute Resets the main counter aggregate value.	
Reset Supplies C	ounter <sup>*2</sup>	Execute	Resets the number of consumables replacements.
Change Password <sup>*1</sup>	New Password	****	Sets the new password to be entered in [Print Statistics].
	Verify Password	****	Sets a new password to be entered in the [Print Statistics] for which [New Password] has been set.

\*1: Not displayed if [Disable] is set for the control panel [Print Statistics] > [Usage Report] item.

\*2: Not displayed if [Disable] is set for the control panel [Supplies Report] item.

## [Calibration]

• Shaded areas are factory-set values.

	Item	Value	<ul> <li>Shaded areas are factory-set values.</li> <li>Description</li> </ul>
Auto Doncity A			-
Auto Density N		On Off	Sets whether to automatically compensate density and shade.
Adjust Density		Execute	Implements density compensation. Implement when the device is in stand-by status.
Adjust Registra		Execute	Implements auto color misalignment compensation operations. Implement when the device is in stand- by status.
Color Density	Cyan Density	-3	Adjusts the cyan density. This setting is enabled from printing after the density compensation has been implemented.
	Magenta Density	-3	Adjusts magenta density. This setting is enabled from printing after the density compensation has been implemented.
	Yellow Density	-3 2 0 2 +3	Adjusts yellow density. This setting is enabled from printing after the density compensation has been implemented.
	Black Density	-3 2 0 2 +3	Adjusts black density. This setting is enabled from printing after the density compensation has been implemented.
	White Density <sup>*1</sup>	-3	Adjusts white density. This setting is enabled from printing after the density compensation has been implemented.
Print Color Tur	ning Pattern	Execute	Prints patterns to match the shading characteristics.
Base Color Tuning	Highlight	A-1 A-2 B-1 B-2 ∂ O-1 O-2	<ul> <li>Matches the color balance for the parts displayed as most clear in the highlight area of the printed color tuning pattern.</li> <li>The matching results are reflected in the highlight matching values for cyan, magenta, and yellow matching.</li> </ul>
	Mid-Tone	A-1 A-2 B-1 B-2 ¿ O-1 O-2	<ul> <li>Matches the color balance for the parts displayed as most clear in the mid-tone area of the printed color tuning pattern.</li> <li>The matching results are reflected in the mid-tone matching values for cyan, magenta, and yellow matching.</li> </ul>
	Dark	A-1 A-2 B-1 B-2 ¿ O-1 O-2	Matches the color balance for the parts displayed as most clear in the dark area of the printed color tuning pattern. The matching results are reflected in the dark matching values for cyan, magenta, and yellow matching.

\*1: Displayed with Pro1050 only.

	Item		Value	Shaded areas are factory-set values.     Description
Fine Color Tuning	Cyan Tuning	Highlight	-4 2 0 2 +4	Matches the highlights (light areas) of the cyan shade characteristics.
		Mid-Tone	-4 2 0 2 +4	Matches the intermediate areas of the cyan shading characteristics.
		Dark	-4 2 0 2 +4	Matches the dark (dark areas) of the cyan shade characteristics.
	Magenta Tuning	Highlight	-4 2 0 2 +4	Matches the highlights (light areas) of the magenta shading characteristics.
		Mid-Tone	-4 2 0 2 +4	Matches the intermediate areas of the magenta shading characteristics.
		Dark	-4 2 0 2 +4	Matches the dark (dark areas) of the magenta shading characteristics.
	Yellow Tuning	Highlight	-4 2 0 2 +4	Matches the highlights (light areas) of the yellow shading characteristics.
		Mid-Tone	-4 2 0 2 +4	Matches the intermediate areas of the yellow shading characteristics.
		Dark	-4 2 0 2 +4	Matches the dark (dark areas) of the yellow shading characteristics.
	Black Tuning	Highlight	-3 2 0 2 +3	Matches the highlights (light areas) of the black shading characteristics.
		Mid-Tone	-3 2 0 2 +3	Matches the intermediate areas of the black shading characteristics.
		Dark	-3 2 0 2 +3	Matches the dark (dark areas) of the black shading characteristics.

	• Shaded areas are factory-set values.		
	Item	Value	Description
Reset Color Tu	ning	Execute	Resets CMYK color matching.
White Tuning <sup>*1</sup>	Highlight	-3 2 0 2 +3	Matches the highlights (light areas) of the white shading characteristics.
	Mid-Tone	-3 2 0 2 +3	Matches the intermediate areas of the white shading characteristics.
	Dark	-3 2 0 2 +3	Matches the dark (dark areas) of the white shading characteristics.
Density Adjust	ment Media	Standard Media Narrow/Thick Media	Specifies the operation speed during a density adjustment operation. Standard Media: Density adjustment operation performed at normal speed. Narrow/Thick Media: Density adjustment operation performed at low speed.

• Shaded areas are factory-set values.

\*1: Displayed with Pro1050 only.

#### [Boot Menu]



• This menu is displayed in English only.

#### Boot Menu



- To enter this menu, press and hold the <OK> button while turning ON the power supply.
- Confirm that [Boot Menu] is selected and then press the <OK> button.
- To enter this menu, it is necessary to enter the [Password].
- The factory default setting of the administrator password is [999999].

• Shaded areas are factory-set values.

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

#### Troubleshooting



- To enter this menu, press and hold the <OK> button while turning ON the power supply.
- Select [Troubleshooting] and then press the <OK> button.

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

## **Saving Toner When Printing**

## Saving Toner When Printing (Toner Save Mode)

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





## Memo

- You can suppress the quantity of toner used by selecting one of the following five patterns as necessary to reduce toner density.
  - Printer setting: Follows the printer's setup.
  - Off: Prints using regular density without economizing the toner.
  - Save Level Low: Prints using medium light toner.
  - Save Level Middle: Prints using light toner.
  - Save Level High: Prints using considerably light toner.
- [Toner Saving] is enabled only if the print quality is specified as [Normal] or [Draft].
- The settings on the printer can be changed from [Admin Setup] > [Print Setup] > [Toner Save]. However, the printer driver settings are given priority.



Toner save mode is not compatible with Spot Color • printing.

#### Windows PCL printer driver

- Open the file to be printed.
- Select [Print] in the [File] menu.
- Click [Preferences] (or [Properties]).



3

On the [Color] tab, use [Toner Saving] to select a toner save quantity.

Examp		Envorites				
Ŧ	1	Current setting		~	Save	Management.
L	2	<u>C</u> olor Mode:	Color			
PaperFr	3		P. Automatic		~	Detai]
Paper Feed Direction	4		Always create 100% ]	zlack (K) toner		
Sign	5	·	Magual settings			
	6	Spot Color:	Do not use		~ 1	
	7		Spgt color toner q	uantity adjustment	here	
	8					
	9	Toner Saving:	Off		*	
	H		Do not save 100% bla	eck toner		
O	KI					Defagit

Print.

## Printing Using the Specified Print Cartridge Only (Lift Up)

The lifespan of an unused print cartridge can be prolonged by separating it from the belt unit.

Setting combinations are shown in the table below.

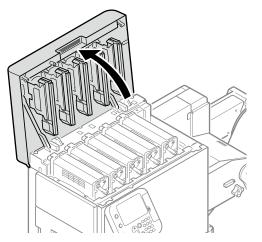
Print Color	Print Cartridge to be Lifted Up
Black (K) only	Cyan, magenta, yellow, white*
White* (W) only	Black, cyan, magenta, yellow
Black + white*	Cyan, magenta, yellow
Black, cyan, magenta, yellow	White*

Example: Printing using the CMYK Print Cartridge only

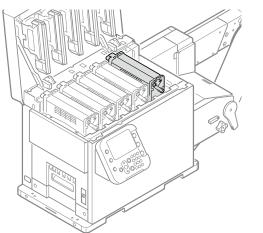
In this example, the White\* (W)  $\ensuremath{\mathsf{Print}}$  Cartridge is lifted up.

\*: Supported by Pro1050 only.

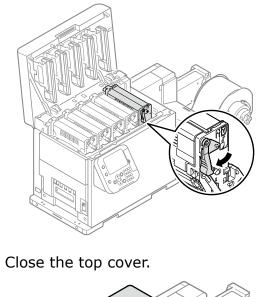
**1** Grasping the Top Cover Open Lever, open the Top Cover.

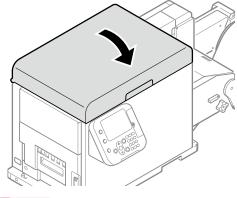


2 Check the position of the unused print cartridge via the label letters and color.



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





Note

- When closing the Top Cover, there is a risk of pinching your fingers at the Top Cover support point and Top Cover. Press the top of the Top Cover to close it.
- When closing the Top Cover while grasping the LED head, there is a risk of pinching your fingers or hands. Press the top of the Top Cover to close it.

## Fine Quality Printing

#### **Changing Print Quality** (Resolution)

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



3

4

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

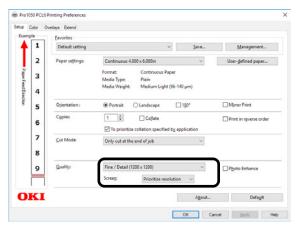
#### Windows PCL Printer Driver

Open the file to be printed.

Select [Print] in the [File] menu.

Click [Preferences] (or [Properties]).

On the [Setup] tab, change the [Quality] setting.



Print.

5

#### Making Photograph Printing More Vivid (Photo Enhance)

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

## Note

3

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

#### Windows PCL Printer Driver

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

Example	_	Eavorites		
<b>≜</b> ∣	1	Default setting	✓ Save Mana	gement
	2	Paper settings:	Continuous 4.000 x 6.000in $\sim$ User-gefin	ed paper
Paper Feed Direction	3		Format: Continuous Paper Media Type: Plain	
eed Die	4		Media Weight: Medium Light (96-140 µm)	
oien	5	Orientation :	Portrait O Landscape      180 <sup>4</sup> Mirror Pri	nt
	6	Copies:	Collate     Print in rg     To prioritize collation specified by application	verse order
	7	Cut Mode:	Only cut at the end of job	
	8			
	9	Quality:	Fine / Detail (1200 x 1200)	hance
Ē	٦		Screeg: Prioritize resolution ~	
OK	-		About	Default



#### **Adjusting Fine Lines**

You can prevent misaligned lines being printed when ultra-fine lines are specified from the application.

This function is normally ON.



Δ

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

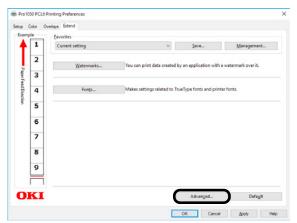
#### Windows PCL Printer Driver

Open the file to be printed.

Select [Print] in the [File] menu.

Click [Preferences] (or [Properties]).

#### On the [Extend] tab, click [Advanced].



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

Advanced		×
ltem		Setting
Overprint Blac	out when resizing document k	On Off Off
Adjust ultra fir	ne lines	On Off
Run maintena Trapping	nce cycle before printing	Off Printer setting
	Adjust ultra fine lines	
<u>S</u> ettings	On ~	
Description		
Adjustment of bulges when p	fine lines remedies the problem that the rinted.	outline of rectangles
	OK Cancel <u>H</u> el	p Defa <u>u</u> lt

Print.

#### **Using Printer Fonts**

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

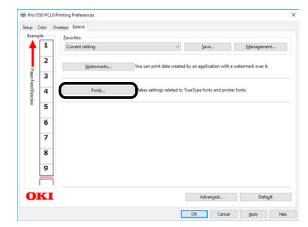
## Note

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

#### Windows PCL Printer Driver

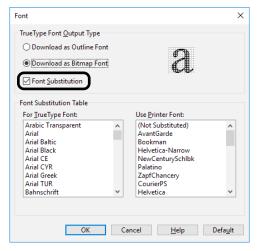
- Open the file to be printed.
- Select [Print] in the [File] menu.
- Click [Preferences] (or [Properties]).

Click the [Extend] tab, and then select [Fonts].



## 5 On the "Font" screen, select the [Font Substitution] check box.

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



6 Use the [Font Substitution Table] to specify which printer fonts should replace the TrueType fonts.

Print.

#### **Using Computer Fonts**

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



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• Print time may be longer.

#### Windows PCL Printer Driver

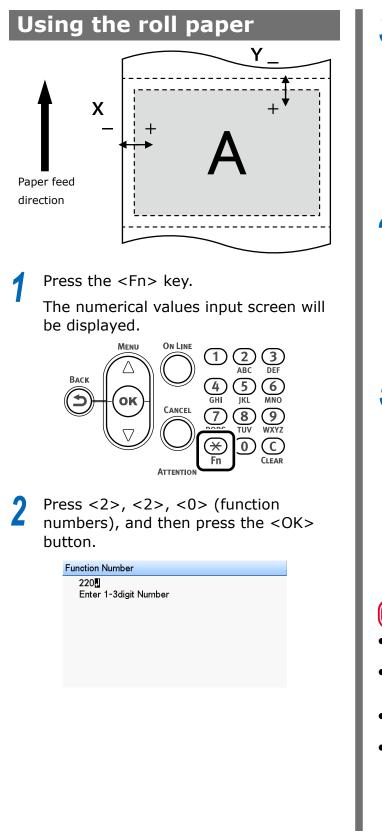
- Open the file to be printed.
- Select [Print] in the [File] menu.
- Click [Preferences] (or [Properties]).
- On the [Extend] tab, click [Fonts].
- On the "Font" screen, clear the [Font Substitution] check box.
  - Download as Outline Font Font image is created by the printer.
  - Download as Bitmap Font Font information is created by the printer driver.

rueType Font Qutput Type Download as Outline Font Download as Bitmap Font Font Substitution		a	
ont Substitution Table For <u>T</u> rueType Font:		Use <u>P</u> rinter Font:	
Arabic Transparent Arial Arial Baltic Arial Black Arial CE Arial CVR Arial Greek Arial TUR	^	(Not Substituted) AvantGarde Bookman Helvetica-Narrow NewCenturySchlbk Palatino ZapfChancery CourierPS Helvetica	

Print.

## Adjusting the Print Position on the Paper

You can correct the print start position vertically and horizontally on the paper by the printer settings. Please refer to the following procedure.



Press the scroll button  $\blacktriangle$  or  $\blacktriangledown$  to select the item you want to adjust.

Function Number	Print Position Adjust	1/1 Page
220	1 X Adjust	
Enter 1-3digi	2 Y Adjust	
	_	
	Use Online button to	return to s

Press the <OK> button.

220 <mark>1)</mark> Enter 1-3digit	✓ 0.0 millimeter
Enter 1-3digi	(-2.0 - +2.0)
	🗙 Switch +/-

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

Function Number	
220 <mark>.1</mark> Enter 1-3digi	✓ +0.5 millimeter
	(-2.0 - +2.0 )
	🗙 Switch +/-

#### Note

- Y represents the paper feed direction and X represents the orthogonal position relative to the paper feed direction.
- Set positive [+] numbers to widen the blank space in the X direction, and also set positive [+] numbers to widen the blank space in the Y direction.
- Readjustment might be necessary depending on the usage conditions (temperature, humidity, media type).
- By eliminating the differences between printers and using the same settings on all the printers with this procedure, you can use one computer when you want to get the same print results on multiple printers. Refer to "Using the Printer Driver to Fine-tune the Print Position" (P.16) about setting the computer.

#### Adjusting the Position That Printing Starts

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

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

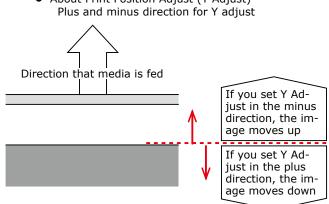
- Adjust the position that printing starts on the first page.
  - After setting the size of the media, calibrate the sensor and execute Paper interval detection.
  - (2) In the driver's print settings, set [To specify the number of pages per cut] in [Cut Mode] and set [1] in [Page(s) per cut].



- You may not be able to set [1] in [Page(s) per cut] if the paper on which you are printing is shorter than 101.6 mm. If this is the case, set the smallest value that you can select.
- (3) Print five pieces of the media on which you are actually printing.
- (4) Measure the distance at A or B, as shown in the diagram, for all five sheets and then calculate the average of these values.
- (5) Calculate the difference in the position you want to print and the average value from (4).

(6) Adjust the position using [Y Adjust] in [Menus]>[Print Adjust]>[Print Position Adjust].

#### When using a black When using a gap mark sensor sensor At the point that the At the point that black mark intersects the label intersects the position of the the position of the black mark sensor on gap sensor on the the printer, measure printer, measure the the distance at A from distance at B from the leading edge of the leading edge the black mark to the of the label to the printed matter on five printed matter on five sheets. sheets. Label Black mark sensor Gap sensor on the paper on the printer printer Printed matter Liner Leading edge of black mark A В Cutting off part of the label makes measuring easier. Memo About Print Position Adjust (Y Adjust) Plus and minus direction for Y adjust



- 2 If you are actually printing more than two sheets consecutively, then next, do the following adjustment. (Improve the accuracy of the function for learning the position that printing starts)
  - In the driver's print settings, set [To specify the number of pages per cut] in [Cut Mode] and set [20] in [Page(s) per cut].
  - Print 20 pieces as a test print (\*).
     \* These printouts are test prints for adjusting positions, so throw them away when you are done.
- 3 The adjustments are complete when printing is done in the position you want.

Reset the cutter settings, and then start printing.

## Other Print Functions

## **Specifying the Page Order**

Extracts by page order when printing documents with multiple pages.

There are two methods.

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

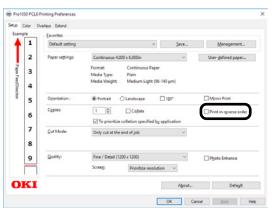
#### Windows PCL Printer Driver

Open the file to be printed.

Select [Print] in the [File] menu.

Click [Preferences] (or [Properties]).

On the [Setup] tab, select the [Print in reverse order] check box in the [Copies] area.



Print.

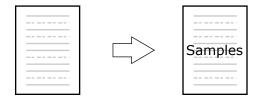
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#### **Overlaying Stamps for Printing (Watermarks)**

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



#### Windows PCL Printer Driver

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

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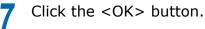
1				
	Current setting	×	Save_	Management
2	Watermarks	ou can print data created by	an application with	a watermark over it.
3				
4	Fonţs	Makes settings related to Tru	eType fonts and prin	ter fonts.
5				
6				
6 7				
7				

5

/atermarks		
Watermarks		
(None)	^	
	·	
P	_	
<u>N</u> ew <u>D</u> elete	2	<u>E</u> dit
First page <u>o</u> nly		
Job information		
<u>Print job information</u>		Job information settin
First page only		

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

Watermarks Text secret Size: 72 < > Angle: 45 < > -180 0 +180	×
Eont Color Trim None Circle Single Frame Double Frame OK	Position Centre ✓ Watermark Adjustment X: 0 ♀ Y: 0 ♀ Cancel Help

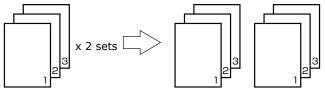


Print.

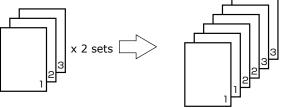
#### Collating Printed Output (Sorted Printing)

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

Printing by specifying batches



Printing without specifying batches



#### Note

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• Not usable with some applications.

#### Windows PCL Printer Driver

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

Example	_	Eavorites				
1	1	Current setting		~	Save	Management
	2	Paper settings:	Continuous 4.000 x 6.000in		~	User-defined paper
Pager Feed Director	3		Media Type: Plain	ous Paper		
ed Dee	1		Media Weight: Medium	Light (96-140	) (mų (	
tion	2	Ogientation :	Portrait     O Landscap	× 🗆	180*	Mirror Print
	3	Copies	2 Collat		listics	Print in rgverse order
	1	Çut Mode:	Only cut at the end of job	er neo og app	~	
	2					
	3	Quality:	Fine / Detail (1200 x 1200)		~	Photo Enhance
Ī	=		Screeg: Prioriti	ce resolution	~	
OF	T				About	Default

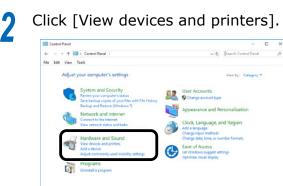
#### Print.

## **Printing a Mirror Image**

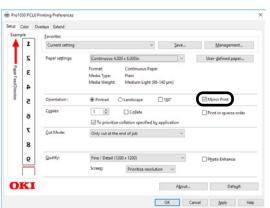
Print using mirror print when you want to print image to appear normal when the page is viewed from the back.

#### Windows PCL Printer Driver

Click [Start] and select [Control Panel] in [Windows System].



- Right-click the [Pro1050 PCL6] icon, and then select [Printer Properties].
- Select [General] tab, and then click Δ [Preferences].
- 5 On the [Setup] tab, select the [Mirror Print] check box in the [Orientation] section, and then click [OK].



6 8

9

Open the file to be printed.

Select [Page Setup] in the [File] menu.

Select the paper size and print orientation, and then click [OK].

Select [Print] in the [File] menu.

10 Click [OK] to return to the "Print" screen.

Click [Print] in the "Print" screen to print.

#### Printing Registered Forms (Print Overlay)

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

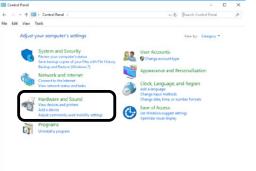


 To print an overlay, you need to create a form and register it in advance. It is possible to specify a maximum of four forms in one group. Forms are overlaid and printed in the order they are registered. That is to say, the last form you register is printed on top.

#### Windows PCL Printer Driver

1 Click [Start] and select [Control Panel] in [Windows System].

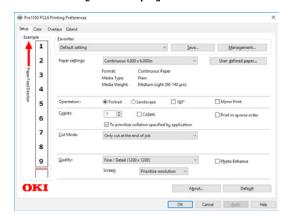




3 Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].

Click the [Overlays] tab.

Δ



5 On the [Overlays] tab, select [Register print document as a new form].

ample	Favorites			
1	Current setting(Default	setting)	✓ Save.	Management
2	Register print documer	nt as a new form	~	
Pager Feed Direction				
eed D. 4	Name	ID	Description	Edit list
5				Test Print
6				
7				
8				
9				



- If the form you want to print is already registered to the device, you do not need to do steps 5 through 10. Advance to step 11 of this procedure.
- 6

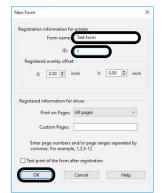
Click [Apply] > [OK] to close the "Printing Preferences" screen.

	Favorites				
1	Current setting(Default	letting)	~	Save	Management
2	Register print documen	t as a new form	~		
3					Edit list
4	Name	ID	Descriptio	n	Edit list
5					Test Print
6					
7					
8					
9					

- From the application, print the image you want to register as a form.
- 8 Confirm that the [New Form] screen appears.

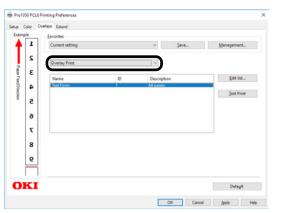
ew Form			
Registration information fo	or printer		
Form name:			
ID:		-	
Registered overlay offse			
		-	
X: 0.00 🗘			
Registered information for	r driver		
Print on Pages:	All pages		~
Custom Pages:			
Enter page numbers commas. For exampl		ges separate	d by
Test print of the form a	after registration		

Input the [Form name] and [ID], and then click [OK].



**10** The form is sent to the device and registered with the specified ID.

11 On the [Overlays] tab, select [Overlay Print].

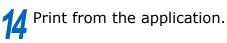


**12** Select the forms you want to use for overlay printing.

		verlays Edend				
xamp		Eavorites				
<b>↑</b>	1	Current setting		v	Save_	Management
	2	Overlay Print		~		
Pager Feed Direction	ε	Mana	10	Description		Edit list
edDies	4	Test Form	1	All pages		Jest Print
ŝ	s					Test hunt
	9					
	7					
	8					
	6					
DI	KI					Deføylt

13 Perform the following operation to close the "Printing Preferences" screen: [Apply] > [OK].

	1	Eavorites				
T	1	Current setting		~	Save	Management
	2	Overlay Print		~		
Paper Feed Direction	3					Edit list
adD	4	Name Test Form	10	Descripti All pages	on	For other
anction						Jest Print
	s					
	9					
	7					
	8					
	6					
	•					



#### **Outputting to a File** Without Printing

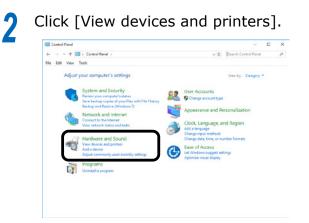
You can write and save to a file without printing the print data.



• PC administrator privileges are required.

#### Windows PCL Printer Driver

Click [Start] and select [Control Panel] in [Windows System].

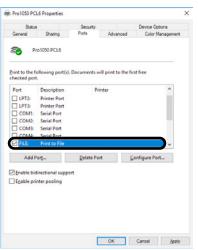


- Right-click the [Pro1050 PCL6] icon, and then select [Printer Properties].

1

Select the [Ports] tab.

In the ports list, select [FILE:], and then click [OK].



Print.

h

Enter the file name, and then click [OK].

#### **Changing the Check Unnecessary Print Cartridge Setting**

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

Press the scroll	butto	n 🔺	or <b>T</b>	▼.
	On LINE CANCEL ATTENTION	$ \begin{array}{c}             1 \\             \underline{4}_{GHI} \\             \overline{7}_{PQRS} \\             \underbrace{\star}_{Fn}         $	2 ABC 5 JKL 8 TUV 0	3 DEF 6 MNO 9 WXYZ CLEAR

Select [Admin Setup], and then press the <OK> button.

idby screen.

Enter the administrator password, and then press the <OK> button.

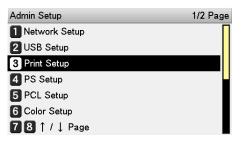
## Memo

The factory default setting of the administrator password is [999999].

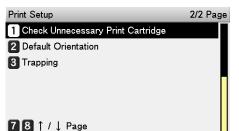
Enter Password	
*****	
(6 - 12 digits )	

Use Online button to return to standby screen.

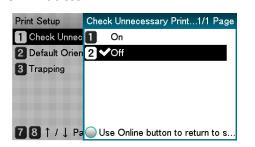
Select [Print Setup], and then press the <OK> button.



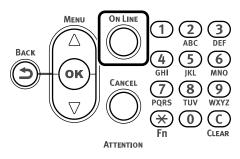
5 Select [Check Unnecessary Print Cartridge], and then press the <OK> button.



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



7 Press the <ON LINE> button to return to the standby screen.



#### Saving Printer Driver Setups

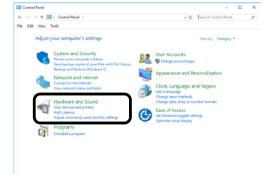
You can save the details set using the printer drivers.

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

#### Save a Setup

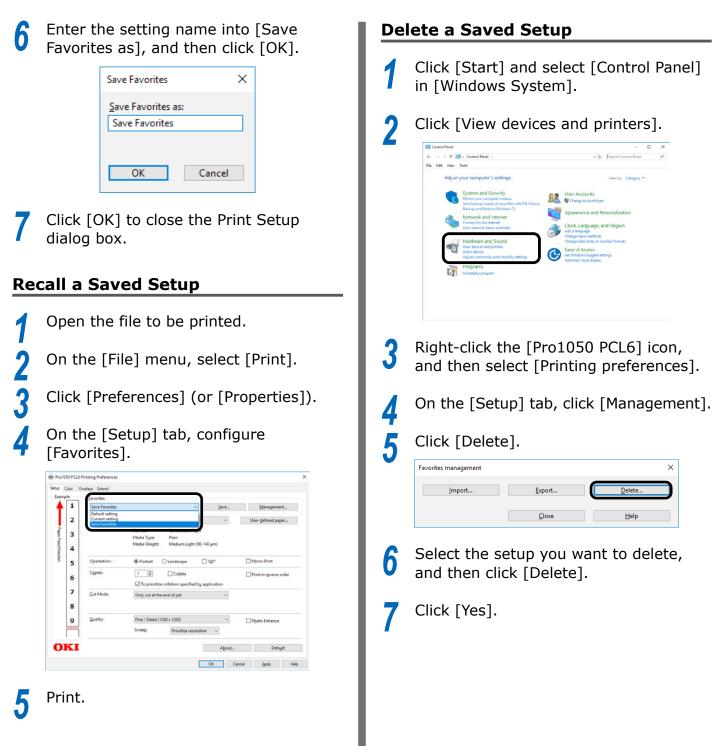
Click [Start] and select [Control Panel] in [Windows System].





- Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
- 4 Change the settings to create the setup you want to save.
- 5 On the [Setup] tab, click [Save].

Example	_	Eavorites		_		
1	1	Default setting		~	Save_	Management
	2	Paper settings:	Continuous 4.000 x 6.000	lin	~	User-defined paper
Paper Feed Director	3		Media Type: Plain	nuous Paper		
eed Dieso	4		Media Weight: Media	um Light (96-140 )	µm)	
ŝ	5	Ogientation :	Portrait     O Landso	cape 🗌 1	80*	Mirror Print
	6	Copies	1 Co		ication	Print in reverse order
	7	<u>C</u> ut Mode:	Only cut at the end of joint	ь	~	
	8					
	9	Quality:	Fine / Detail (1200 x 1200	0	~	Photo Enhance
İ			Screeg: Prior	ritize resolution	$\sim$	
OI	CT.				About	Default



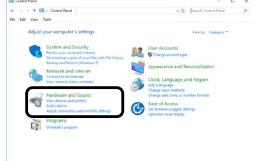
#### **Importing/Exporting a Printer Driver Print Setup**

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

#### Export a Setup

1 Click [Start] and select [Control Panel] in [Windows System].



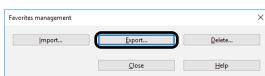


- **3** Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
  - On the [Setup] tab, click [Management].

#### Click [Export].

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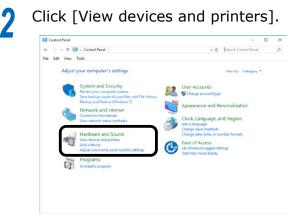
6 In the [List of favorite settings] on the "Export" screen, select the checkbox next to the setup you want to export, and then click [Export].

Save Favorites	
	Select <u>A</u> ll
	Unselec <u>t</u>
Display by paper form	
✓ Display all	
Continuous Paper	
Continuous Paper(black mark)	
☑ Die-c <u>u</u> t label(gap)	
Die-cut label( <u>b</u> lack mark)	
Eull Surface label	
Full Surface label(black mark)	

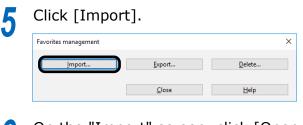
7 Enter a file name, specify where to save it, and then click [Save].

#### Import a Setup

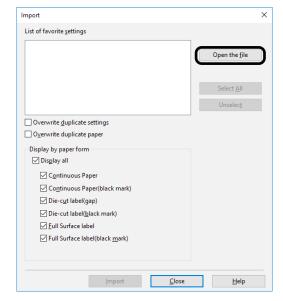
Click [Start] and select [Control Panel] in [Windows System].



- **3** Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
  - On the [Setup] tab, click [Management].



6 On the "Import" screen, click [Open the file].



- 7 Specify the file you want to import, and then click [Open].
- Check the names of the settings in the [List of favorite settings], and then click [Import].

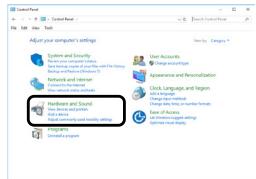
9 When the message "Imported successfully." appears, click [OK].

#### **Changing Default Printer Driver Settings**

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

#### **Windows PCL Printer Driver**

- Click [Start] and select [Control Panel] in [Windows System].
- 2 Click [View devices and printers].



- **3** Right-click the [Pro1050 PCL6] icon, and then select [Printing preferences].
- 4 Change the various settings, and then click [OK].

## Deleting or Updating a Printer Driver

## **Deleting a Printer Driver**

#### Windows PCL Printer Driver

## Note

- PC administrator privileges are required.
- Restart the computer, and then delete the driver.

1 Click [Start] and select [Control Panel] in [Windows System].

**9** Click [View devices and printers].

#### 

- Right-click the [Pro1050 PCL6] icon, and then select [Remove device].
- If a verification message is displayed, click [Yes].
  - Note
  - If a message appears while the device is in use, restart the PC, and then perform steps 1 and 2 of this procedure again.
- 5 Select one of the icons in [Devices and Printers], and click [Print server properties] in the top bar.
- 6 7

Select the [Drivers] tab.

Click if [Change Driver Settings] is displayed.

Select the driver to be deleted, and click [Remove].

orms Ports Drivers Security	Advanced	
DESKTOP-G1GC40	т	
Installed <u>p</u> rinter drivers:		
Name	Processor	Туре
Microsoft enhanced Point	х64	Type 3 - User Mode
Microsoft enhanced Point	x86	Type 3 - User Mode
Microsoft Print To PDF	x64	Type 4 - User Mode
	хб4	Type 4 - User Mode
Pro1050 PCL6	хб4	Type 3 - User Mode

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

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

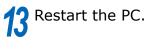
**10** If a verification message is displayed, click [Yes].

If the [Remove Driver Package] dialog box is displayed, click [Delete]>[OK].

Note

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

Click [OK] in the [Print server properties] dialog box.





 Network Extension and the Color Swatch Utility installed together with the printer driver are not deleted even if the printer driver is deleted.

To delete Network Extension and the Color Swatch Utility, use [Control Panel] > [Uninstall a program].

#### **Updating a Printer Driver**

For information about the latest driver versions, check the website.

#### Windows PCL Printer Driver



• PC administrator privileges are required.

- Download the printer driver from the website.
- Double-click the file you downloaded.
  - Select the desired language, and then click [OK].



• When the "User Account Control" window is displayed, click [Yes].

- 4 Read the "Software License Agreement", and click [Accept].
- 5 Follow the instructions that appear on the screen to finish driver installation.

## Memo

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



# **Adjusting the Color**

Adjusting Color with the
Control Panel 100
Adjusting Color with a
Printer Driver 109

## Adjusting Color with the Control Panel

#### **Correcting Color Drift Manually**

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

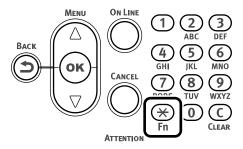
Press the <Fn> key.

Function Number

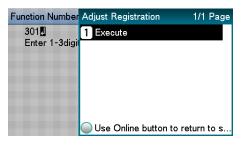
Enter 1-3digit Number

301

The numerical values input screen will be displayed.



3 Check that [Execute] has been selected, and press the <OK> button.

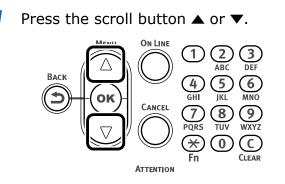


The display will return to the standby screen.

#### **Configuring Settings for Auto Adjustment of Density and Gradation**

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

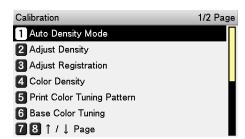
In the default factory settings, density compensation matching is implemented automatically.



2 Select [Calibration], and press the <OK> button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 💽 Admin Setup	
5 💽 Print Statistics	
6 Calibration	
Ouse Online button to return to standb	y screen.

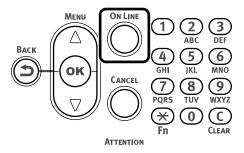
Select [Auto Density Mode], and then press the <OK> button.



Select [On], and then press the <OK> button. Confirm there is a check mark (\*) to the left of [On].

Calibration	Auto Density Mode 1/1 Page
Auto Density	/ <b>1                                   </b>
2 Adjust Dens	it 2 Off
3 Adjust Regis	st
4 Color Densit	>
5 Print Color T	i.
6 Base Color	T
(7)8)1/↓P	a Olse Online button to return to s

5 Press the <ON LINE> button to return to the standby screen.

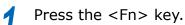


#### Adjusting Density Manually

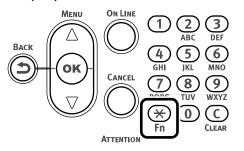
The printer can implement compensation periodically using auto density compensation mode, but if the print density is noticeable, it can also be compensated manually.



- Density adjustment values are set by specifying [Cyan Density], [Magenta Density], [Yellow Density], [Black Density], and [White Density]\* values with the control panel.
  - \*: This item available only on the Pro1050



The numerical values input screen will be displayed.



Press <3>, <0>, <0>, and press the <OK> button.

Function Number	
300	
Enter 1-3digit Numbe	er

Check that [Execute] has been selected, and press the <OK> button.

Function Number	Adjust Density	1/1 Page
300	1 Execute	
Enter 1-3digi		
	Use Online button	to return to s

Execute density adjustment.

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

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

#### Fine Tuning Density Adjustments

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

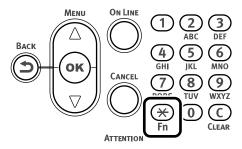
Adjust each color separately for the parts where the density is noticeable from the print results.

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

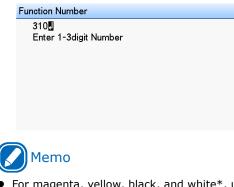
## • Increasing cyan after checking the print results

Press the <Fn> key.

The numerical values input screen will be displayed.



Press <3>, <1>, <0>, and press the <OK> button.



- For magenta, yellow, black, and white\*, use the operations below.
  - To tune magenta, press the <Fn> key, and then press the following buttons: <3>, <1>, <1>, <0K>.
  - To tune yellow, press the <Fn> key, and then press the following buttons: <3>, <1>, <2>, <OK>.
  - To tune black, press the <Fn> key, and then press the following buttons: <3>, <1>, <3>, <OK>.
  - To tune white\*, press the <Fn> key, and then press the following buttons: <3>, <1>, <4>, <OK>.

\*: Can be adjusted on the Pro1050 only

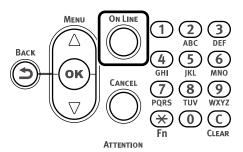
Press the scroll button ▲ or ▼ to specify a value that is larger than the current value, and then press the <OK> button.

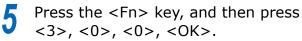
Confirm there is a checkmark ( $\checkmark$ ) to the left of the selected value.

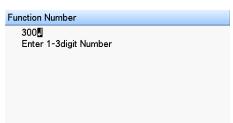
unction Numbe		
310 <mark>.]</mark> Enter 1-3dig		
Enter 1-3dig	(-3-+3)	
	( 3 13 )	
	🗙 Switch +/-	



- Select +1 to +3 to make density darker, or -1 to -3 to make it lighter.
- Press the <ON LINE> button to return to the standby screen.







6 Check that [Execute] has been selected, and press the <OK> button.

Function Numbe		1/1 Page
300		
Enter 1-3digi		
	Use Online button	to return to s

7 The display will return to the standby screen.

8 Print.

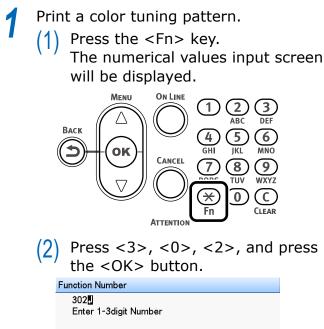
If you are not satisfied with the density, repeat steps 1 to 6 of this procedure.

#### Adjusting Color Balance (Density)

The printer can implement compensation periodically using auto density compensation mode. However, you can implement this adjustment when you want to adjust the gray balance of the halftones, which is not sufficiently adjusted by the auto density compensation.



- The densities of the colors are mutually dependent on each other, so you will need to repeat adjustment several times until the desired color balance is achieved.
- The results of the basic [Base Color Tuning] are reflected in the settings in [Fine Color Tuning]. Consequently, if the [Fine Color Tuning] are adjusted manually, these settings will be reset, so be careful. However, the [Black Tuning] settings are not reset.

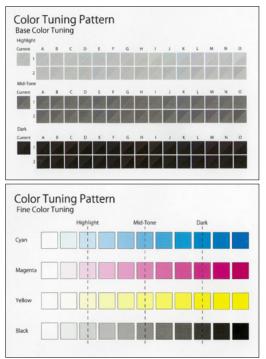


(3) Check that [Execute] has been selected, and press the <OK> button.

Function Numbe	Print Color Tuning Pattern 1/1 Page
302	1 Execute
Enter 1-3dig	
	Use Online button to return to s

(4) The color tuning pattern will be printed.

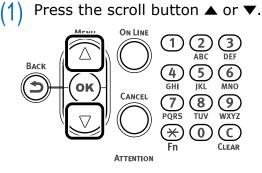
2 Use the print results for the color tuning pattern to check the current color balance.

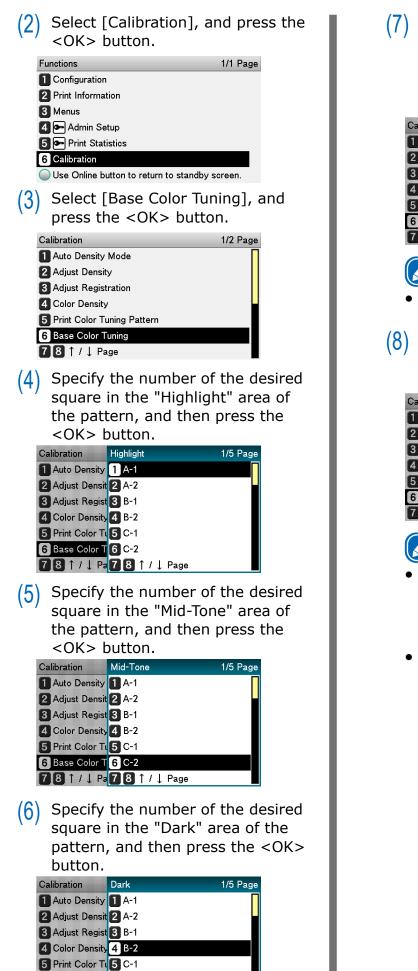


 Check the area to be referenced using "Base Color Tuning". Check the numbers (A1,2 to O-1,2) of the pattern that seems the most similar to the adjacent CMY mixed colors part and single color K part from among the patterns distributed in the "Highlight", "Mid-Tone", or "Dark" areas.

## Memo

- If the pattern that seems most similar to the adjacent CMY mixed colors part and single color K part in the "Highlight", "Mid-Tone", or "Dark" areas matches the "Current" on the left of the color tuning pattern, the color balance is normal and does not require adjustment.
- Use the print results for the color tuning pattern to adjust the color balance.



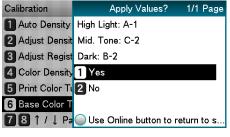


Base Color T 6 C-2

**78**↑/↓ Pa**78**↑/↓ Page

(7) The pattern number specified in each area will be displayed.

If the pattern number is correct, select [Yes], and press the <OK> button.



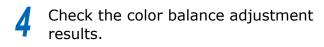
## Memo

- To respecify the pattern number select [No] to return to the "Calibration" screen.
- Select [Return], and press the <OK> button to return to the standby screen.

Calibration	Finished Adjusting. 1/1 Page
Auto Density	High Light: A-1
2 Adjust Densit	Mid. Tone: C-2
3 Adjust Regist	Dark: B-2
4 Color Density	1 Return
5 Print Color Tu	
🙃 Base Color T	
[7]8 <u>↑/</u> , Pa	Use Online button to return to s

## Memo

- If the desired color balance is not obtained even after [Base Color Tuning], adjust the CMY color balance manually using the procedure under [Adjusting the color balance]. For color balance fine tuning, see "Fine-tuning Color Balance" (P.106).
- If the overall tone is still too bright or too dark even after implementing [Base Color Tuning], adjust the black tone manually using [Fine Color Tuning], and then implement [Basic color Tuning] again. To brighten the overall tone, adjust the black tone in [Fine Color Tuning] in the - direction, and to darken the overall tone, adjust the black tone in [Fine Color Tuning] in the + direction.



- (1) Print the color tuning pattern.
- (2) Use the print results for the color tuning pattern to check the adjusted results.

If the pattern that seems most similar to the adjacent CMY mixed colors part and single color K part in the "Highlight", "Mid-Tone", or "Dark" areas matches the "Current" on the left of the color tuning pattern, the color balance adjustment is complete.

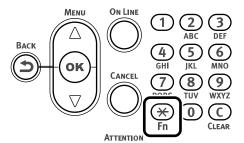
Repeat steps 1 through 3 of this procedure in accordance with the results of your pattern check.

#### **Fine-tuning Color Balance**

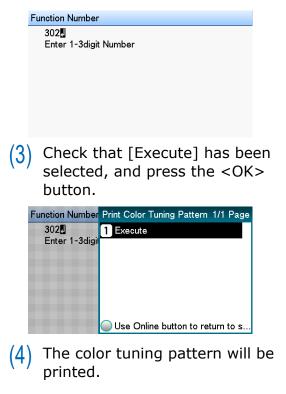
The printer can implement compensation periodically using auto density compensation mode. However, you can implement this adjustment when you want to finely adjust the gray balance of the halftones, which is not sufficiently adjusted by the auto density compensation.



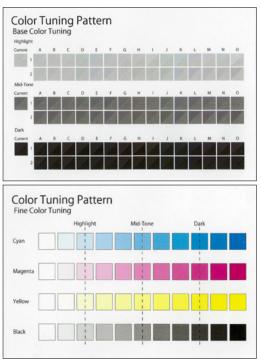
- The densities of the colors are mutually dependent on each other, so you will need to repeat adjustment several times until the desired color balance is achieved.
  - Print a color tuning pattern.
    - (1) Press the <Fn> key.
      - The numerical values input screen will be displayed.



(2) Press <3>, <0>, <2>, and press the <OK> button.



# 2 Use the print results for the color tuning pattern to check the current color balance.



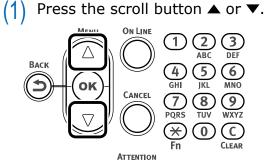
(1) Check the area to be referenced using "Fine Color Tuning".

The color tuning pattern blocks are arranged in four rows of 11 columns. The four rows are printed with the following colors, from top to bottom: [Cyan], [Magenta], [Yellow] and [Black].

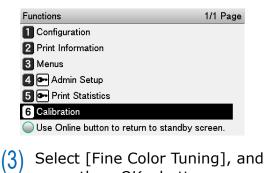
The 11 columns represent color tone, and vertical broken lines are labeled as [Highlight], [Mid-Tone], and [Dark]. 3 Use the print results for the color tuning pattern to adjust the color balance.

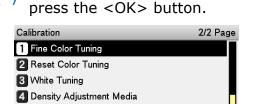
If you are adjusting the color balance, use the control panel to specify the shade (Highlight, Dark, and Mid-Tone) of each color.

This section explains the procedure for slightly darkening the cyan highlights. Adjust the colors other than cyan in the same way.



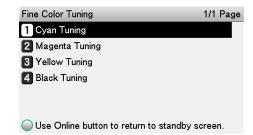
(2) Select [Calibration], and press the <OK> button.

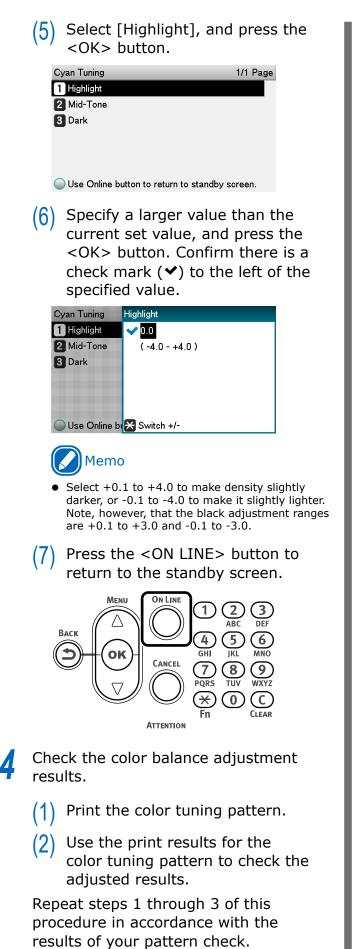




#### **7**8 ↑ / ↓ Page

(4) Select [Cyan Tuning], and press the <OK> button.





# Adjusting Color with a Printer Driver

# **Color Matching**

## What Is Color Matching?

It is important to manage the work processes from data creation to output based on methods with color consistency. For example, scanners, digital cameras, and monitors, and other devices express the blending ratio to which the light of red, blue, and green (three colors) have been added to black as values over the RGB color space (additive mixture of colors).

Meanwhile, printers express the blending ratio of the four toner colors cyan, magenta, yellow, and black relative to white (white light), with the three reflected colors red, blue, and green excluded as values in the CMYK color space (subtractive mixture of colors).

The RGB color space and CMYK color space are color spaces dependent on the machine used, and so when converting color spaces, the colors will be different from the reproduced colors unless individual machine characteristics are taken into consideration.

To maintain color consistency from data creation to output, it is necessary to consider the color differences by device when converting colors. This process is called "color matching". The program that implements the color matching is called the "color management system" (CMS).

The printer can use either printer driver color matching or application color matching.



• Even if you are using color matching, the printed colors may appear dark compared to the colors on the monitor. This is because the range of colors that can be reproduced by the device is narrower than the range of colors that can be reproduced by the monitor, so even if color matching is used, the vivid colors on the monitor cannot be reproduced.

# **Color Matching** (Automatic)

The procedure below performs recommended color matching for general documents. Generally use the settings shown here.

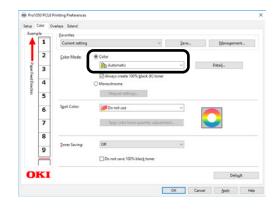
## Windows PCL Printer Driver

Open the file to be printed.

On the [File] menu, select [Print].

Click [Preferences] (or [Properties]).

In "Color" on the [Color] tab, select [Automatic], and then click [OK].



Print.

Δ

# Simple Color Matching (Simple Adjustment)

Color matching is used on a printer for reproduction of the RGB colors required to print from word processor, spreadsheet, presentation, and other similar software.

Color matching is implemented using a special accelerator (ASIC) that is built into the printer. When converting RGB color space print data to the printer CMYK color space, color matching processing is applied.



- In the case of a Windows PCL printer driver, color matching is not applied even if [Automatic] or [Simple Adjustment] is selected for the CMYK color space print data. In this case, select "Graphic Pro".
- If you are installing ICC profile in Windows, click [Advanced Setup] in the [Layout] tab, and then select [Disable ICM] in [ICM Methods].

#### Setup Items

- [RGB Color Setting] Specifies the method for expressing the colors processed using color matching.
  - Monitor Auto

During color matching, represents color by the most ideal method suited to the document to be printed, emphasizing compatibility with the monitor (color temperature 6500 K). Normally use this setting.

Monitor - Perceptual

During color matching, represents the color by the method emphasizing the gradation suiting the natural image of the photograph and compatibility with the monitor (color temperature 6500K).

• Monitor - Vivid

During color matching, represents the color by the method emphasizing the vividness suiting the images and text, and compatibility with the monitor (color temperature 6500K).

Monitor - light

During color matching, represents the color by the method emphasizing the gradation suiting the natural image of the photograph and compatibility with the monitor (color temperature 9300K).

• Adobe RGB

Specify if you are using an input device with AdobeRGB color characteristics.

• sRGB

The sRGB colors within the printer's color gamut are printed without any modification. Only colors that fall outside the printer's color gamut are matched with the outer shell. Suitable for matching specific colors.

• [Black Finish]

Sets the black finish when printing in color. Normally use Auto as is.

#### ■ Windows PCL Printer Driver

Open the file to be printed.

Select [Print] in the [File] menu.

Click [Preferences] (or [Properties]).

On the [Color] tab, click [Color], select [Automatic] or [Simple Adjustment], and then click [OK].



Print.

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# Color Matching (Graphic Pro)

Graphic Pro is the optimal choice for use with DTP software.

It lets you specify simulation printing for any CMYK output device.

To use an ICC profile of an I/O device for color matching, you need to register the ICC profile to the device beforehand.

For information about how to register an ICC profile, see "Registering an ICC Profile" (P.187).

#### Windows PCL Printer Driver

- Open the file to be printed.
  - On the [File] menu, select [Print].
  - Click [Preferences] (or [Properties]).
- 4 On the [Color] tab, click [Color], then select [Graphic Pro], and then click [OK].

Exam		Eavorites			
Î	1	Current setting	×	Save	Management
	2	Color Mode:	Color		
PaperP	3		Graphic Pro	~	Detai]
Paper Feed Direction	4		Graphic Pro		
ction	5		Magual settings		
	6	Sgot Color:	💋 Do not use	~	
	7		Spgt color toner quantity adjustment	L	
	8				
	9	Ioner Saving:	Off	~	
	ī		Do not save 100% black toner		
0	KI				Default

5 Print.

3

# Color Matching (No Color Matching)

Prints using the specified colors as is, without implementing color matching using the printer drivers or device.

Select if implementing color matching using an application.

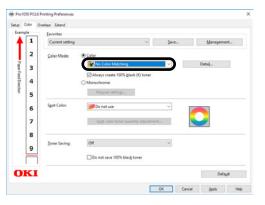
# Windows PCL Printer Driver

Open the file to be printed.

On the [File] menu, select [Print].

Click [Preferences] (or [Properties]).

On the [Color] tab, click [Color], then select [No Color Matching], and then click [OK].



Print.

# **Changing the Black Finish**

The finish for the black parts will be changed when printing in color. This can be used when the printer driver's color mode setting is [Simple Adjustment] or [Graphic Pro].

#### Setup Items

- Black Finish
  - Auto

Creates black using the optimum methods according to the document to be printed. This setting can be selected only when the color mode is set to [Simple Adjustment]. This setting cannot be configured on the Graphic Pro.

Composite Black(CMYK)

Synthesizes black using cyan, magenta, yellow, and black toner. The black is close to brown. Ideal for photos.

• True Black (K)

Prints black using black toner only. Ideal for diagrams and documents. When printing photos, the dark parts are blackish.

- Pure Black Text/Graphics (Graphic Pro Only) If black defined using the RGB color space for text and graphics (R=0, G=0, B=0) or black defined using the CMYK color space (C=0, M=0, Y=0, K=100%) is specified, this setting specifies whether printing should use black (K) toner only.
  - ON

Prints the text and graphics specified as black using black (K) toner only.

• OFF

Text and graphics specified as black are synthesized using either black (K) toner only or CMYK depending on the profile specified by color matching.

#### ■ Windows PCL Printer Driver

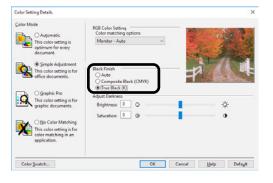
Open the file to be printed.

On the [File] menu, select [Print].

Click [Preferences] (or [Properties]).

On the [Color] tab, select [Simple Adjustment] or [Graphic Pro], and then click [Detail].

5 In the [Black Finish] section, select the black finishing method. In the [Graphic Pro] mode, also select ON or OFF for [Pure Black Text/Graphics], and then click [OK].



Print.

# Monochrome (Black and White) Printing

The color data is printed using grayscale (shades of black and white) without touching the print data.



• If implementing color printing after printing by specifying "Monochrome", a delay may occur depending on the temperature adjustment of the fuser unit.

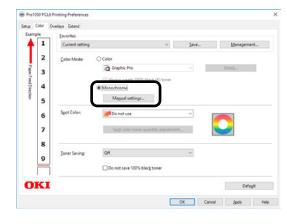


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- Even if the cyan (blue), magenta (red), yellow print cartridge life has been reached, monochrome printing using only black can be done by specifying "Monochrome".
- Refer to "Printing Using the Specified Print Cartridge Only (Lift Up)" (P.80) regarding printing with black only.
- For information about roll paper, see "Roll Paper Specifications" (P.12).

## Windows PCL Printer Driver

- Open the file to be printed.
- Select [Print] in the [File] menu.
- Click [Preferences] (or [Properties]).
- On the [Color] tab, select [Monochrome]. Adjust lightness and darkness as required.



Print.

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# Suppressing White Lines Between Text and the Background (Black Overprint)

If you are imaging 100% black text on a colored background, you can print (overprint) by overlaying the text and background parts. Set if there are gaps such as white lines, etc., in the borders between the text and background.



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- Not usable with some applications.
- Black overprint cannot be used if the text is not 100% black, the text has been rendered as graphics by extracting the outlines, or if the text is an image.
- If the background color is dark (toner layer thickness exceeds 240%), toner may not be fixed completely. For example, if printing 100% black text on backgrounds of 50% cyan, 50% magenta, and 50% yellow, the toner layer thickness is 50+50+50+100=250%, which exceeds 240%.

#### Windows PCL Printer Driver

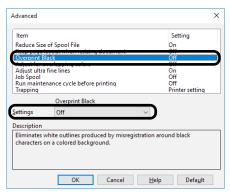
Open the file to be printed.

Select [Print] in the [File] menu.

Click [Preferences] (	or [Properties]).
-----------------------	-------------------

On the [Extend] tab, click [Advanced].

Select [Overprint Black]. Next, for [Settings], select [On], and then click [OK].



# Print.

# **Correcting for Print Misalignment (Trapping)**

Use if there are white or colored lines between two overlapping objects due to print misalignment.

#### Windows PCL Printer Driver

- Open the file to be printed.
  - Select [Print] in the [File] menu.
  - Click [Preferences] (or [Properties]).
- On the [Extend] tab, click [Advanced].

Select [Trapping]. Next, select the misalignment correction method with [Settings], and then click [OK].

ltem		Setting
Overprint Blac	out when resizing document k rlapping colors	On Off Off On Off
Trapping		Printer setting
	Trapping	
<u>S</u> ettings	Printer setting	~
Description	Printer setting	
Trapping creat compensates of an image. T between two	Narrow / Choke White Wide	of color. This g the C, M, Y and K layer aps or color lines



• Selections that include [Choke White] are only shown for the Pro1050.

#### Print.

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# **Simulating Print Results**

The printer adjusts CMYK color data to simulate the characteristics of ink, such as that used in offset printing.

The ICC profiles registered as standard are described below.

- RGB Profiles
  - sRGB
  - AdobeRGB
- CMYK Input Profiles
  - SWOP
  - ISO Coated
  - Japan Color
  - JMPA



• Enabled when [Color Mode] is set to either [Simple Adjustment] or [Graphic Pro].

#### Windows PCL Printer Driver

Open the file to be printed.

Select [Print] in the [File] menu.

Click [Preferences] (or [Properties]).

On the [Color] tab, click [Detail], and then select [Graphic Pro].

5 Select [Printer Simulation], and then use the list under [Simulation Target Profile] to select the ink characteristics you want to simulate.

Color Setting Details		
Color Mode O Automatic This color setting is optimum for every document.	ICC Profile Color Matching     Printer Simulation     Disable color matching for	
O Simple Adjustment This color setting is for office documents.	Input Profile RGB Profile	Output Profile Printer Profile
	sRGB ~	Resident Profile ~
Graphic Pro     Graphic Pro     This color setting is for     graphic documents.	Simulation Target Profile	Rendering Intent
No Color Matching	NONE SWOP	
This color setting is for color matching in an application.	ISO Ceated JapanColor JMPA CMVK Source 1	Black Finish Composite Black (CMYR) ~ Pure Black Text/Graphics
	CMYK Source 1 CMYK Source 2 CMYK Source 3 CMYK Source 4	
Color Swatch	CMYK Source 5	Cancel <u>H</u> elp Defa <u>u</u> lt



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3

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Print.



# Spot Color Printing Setup (Pro1050 Only)

Printer Driver Spot Color	
Function List	118
Printing on Color Papers	119
Fine-Tuning White Shading	121



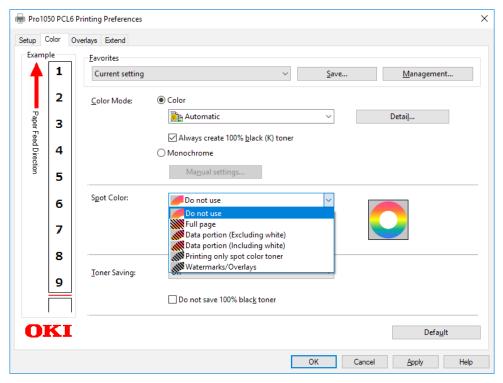
- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- Spot color printing is supported by the Pro1050 only.
- For detailed explanations of the printer driver and utility setup items, see "Online Help".
- Due to printer driver and utility version upgrades, actual operations may be different from the descriptions in this manual.

# Printer Driver Spot Color Function List

This section explains the Spot Color toner functions in the printer drivers.

#### Windows PCL Printer Driver

Click the [Color] tab to display the screen for setting the spot color toner.



	Item	Description
Usage Method	Do not use	Prints without using white toner.
	Full page	Uses white toner for the entire page being printed.
	Data portion (Excluding white)	Uses white toner for all data parts that do not include white parts.
	Data portion (Including white)	Uses white toner for all data parts that include white parts.
	Printing only spot color toner	Prints with white toner only.
	Watermarks/Overlays	Prints the selected watermark and overlay with white toner.
Spot color toner quantity adjustment	0 to 100	Adjusts the amount of white toner used while printing.

# Printing on Color Papers

# **Usable Color Papers**

Use color paper that satisfies the following conditions.

- Pigment or ink used to color the paper heatresistant to 230°C
- E-photo printer paper with the same paper characteristics as plain paper

# Printing Using White Toner Only

Printing text and illustrations using only white toner on color paper.

Before printing, check that the white print cartridge has been mounted to the device, and that white toner has been selected using the printer drivers.



 If you specify "Print Only with Spot Color" and lift up all the other colors of cartridges, you can print with only spot colors, even if one of the black, cyan, magenta, or yellow print cartridges has reached the end of its service life. 4

5

6

#### ■ Windows PCL Printer Driver

Open the file to be printed.

Select [Page Setup] in the [File] menu.

Select the paper size and print orientation, and then click [OK].

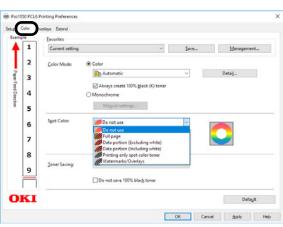
Select [Print] in the [File] menu.

Click [Preferences] (or [Properties]).

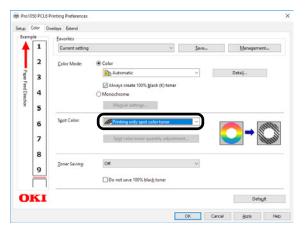
Use [Media Type] to select the paper type.

Use [Media Weight] to select an appropriate value.

# 8 Click the [Color] tab.



9 For [Usage Methods], select [Printing only spot color toner], and then click [OK].



**10** Click [Print] in the "Print" screen to print.

# **Printing White Under Color**

When printing on color paper, print a base with white toner, and then print in color on top of that.

# Windows PCL Printer Driver

- Open the file to be printed.
- Select [Page Setup] in the [File] menu.

Select the paper size and print orientation, and then click [OK].

Select [Print] in the [File] menu.

Click [Preferences] (or [Properties]).

Use [Paper settings] to select the paper type.

Click the [Color] tab.

6

8 For the [Spot Color] setting, select one of the following: [Full page], [Data portion (Excluding white)], [Data portion (Including white)], or [Watermarks/Overlays].

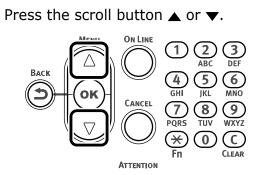
G Click [OK].

Oclick [Print] in the "Print" screen to print.

# Fine-Tuning White Shading

Finely adjust the shade for each white highlight, dark, mid-tone gradation using the printer control panel.

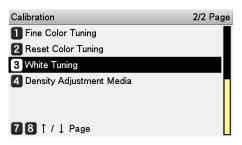
Here, we will show the procedure for slightly darkening white highlights.



2 Select [Calibration], and press the <OK> button.

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

3 Select [White Tuning], and then press the <OK> button.



Select [Highlight], and press the <OK> button.

White Tuning	1/1 Page
1 Highlight	
2 Mid-Tone	
3 Dark	

5 Specify a value that is larger than the current set value, and then press the <OK> button. Confirm there is a check mark (♥) to the left of the specified value.

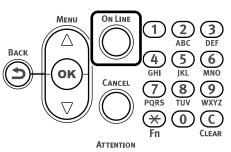
White Tuning	Highlight
Highlight	✓ 0.0
2 Mid-Tone	(-3.0 - +3.0)
3 Dark	
Use Online b	🗙 Switch +/-
	Switch +/-

# Memo

• A larger value represents darkening, while a smaller value represents lightening.



Press the <ON LINE> button to return to the standby screen.



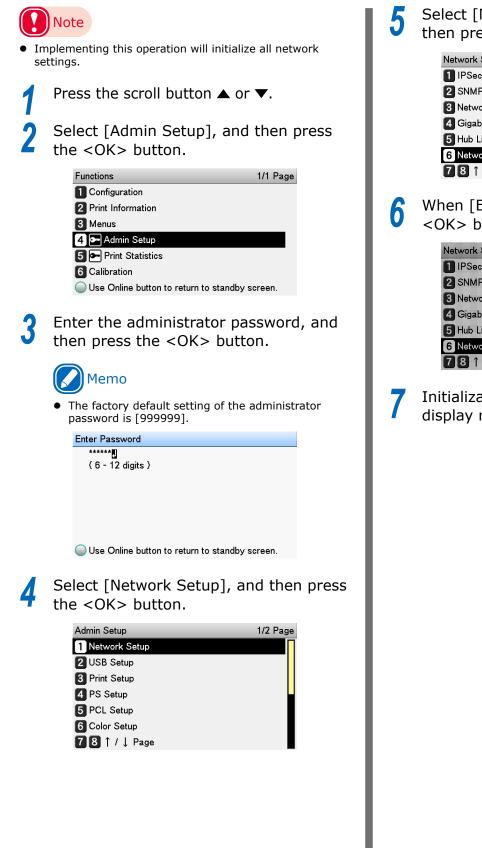
Use Online button to return to standby screen.



# **Network Settings**

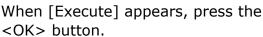
Initializing Network Settings 124
Using DHCP 125
IPv6 127

# Initializing Network Settings



Select [Network Factory Defaults], and then press the <OK> button.

Network Setup	2/2 Page
1 IPSec	
2 SNMP	
3 Network Scale	
4 Gigabit Network	_
5 Hub Link Setting	
6 Network Factory Defaults	
<b>7 8</b> ↑ / ↓ Page	



Network Setup	Network Factory Defaults 1/1 Page
1 IPSec	1 Execute
2 SNMP	
3 Network Scal	
4 Gigabit Netw	
5 Hub Link Sett	
S Network Fact	
[7][8] ↑ / ↓ Pa	Use Online button to return to s

Initialization is executed, and the display returns to the standby screen.

# Using DHCP

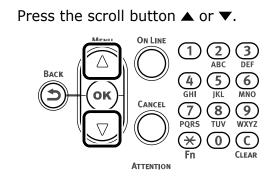
IP addresses can be acquired from a DHCP server.



- PC administrator privileges are required for the setup.
- Incorrectly allocating the IP address may cause major malfunctions such as crashing of the network. Thoroughly consult the network administrator before making the settings.

To use the device in a DHCP environment, select [Auto] as the IP address setting method.

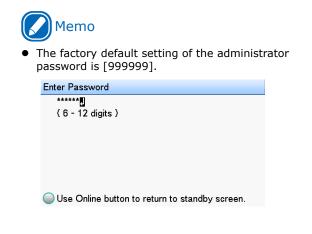
Also note that [Auto] is the IP address setting method under factory default settings, so performing this procedure is normally not necessary.



2 Select [Admin Setup], and then press the <OK> button.

Functions	1/1 Page
1 Configuration	
2 Print Information	
3 Menus	
4 💽 Admin Setup	
5 - Print Statistics	
6 Calibration	
OUse Online button to return to stand	by screen.

3 Enter the administrator password, and then press the <OK> button.



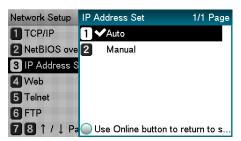
Select [Network Setup], and then press the <OK> button.

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

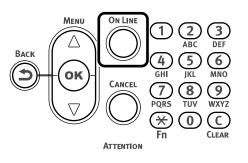
5 Select [IP Address Set], and then press the <OK> button.

Network Setup	1/2 Page
1 TCP/IP	Π
2 NetBIOS over TCP	
3 IP Address Set	
4 Web	
5 Telnet	
6 FTP	
<b>7</b> 8 ↑ / ↓ Page	

6 Select [Auto], and then press the <OK> button.



Press the <ON LINE> button to return to the standby screen.



#### To use the printer in a BOOTP environment

To use the printer in a BOOTP environment, select [BOOTP] as the IP address setting method.

- 1 Access the printer web page and log in as an administrator.
- 2

Select [Admin Setup].

3 Select [Network Setup] > [TCP/IP] > [Change Settings] > [Get IP address automatically (BOOTP)].

Click [Submit].

# Memo

• Refer to "Using a Web Browser to Configure the Network Setup" (P.153) regarding the printer web page.

# IPv6

This printer is compatible with IPv6, and the IPv6 address is acquired automatically. IPv6 addresses cannot be set manually.

The device is compatible with the following protocols.

- Printing:
  - LPR
  - IPP
  - RAW (Port9100)
  - FTP
- Setup:
  - HTTP
  - SNMPv1/v3
  - Telnet

# **Checking the IPv6 Address**

IPv6 addresses are allocated automatically.

Access the printer web page and select [View information].

## Memo

• Refer to "Using a Web Browser to Configure the Network Setup" (P.153) regarding the printer web page.



Select [Network] > [TCP/IP].



# Memo

If all the global addresses are displayed as "0", it is • possible an error has occurred in the router being used.



Press the scroll button ▲ or ▼, and then select [Print

Information] > [Configuration] to check the IPv6 address using the configuration report. For reports and information about how to print them, see "Printing Configuration Information" (P.130).

IPv6



# Viewing Machine Information

Printing Configuration	
Information	130
Checking the Print Count	138

# Printing Configuration Information

# **Printable Report List**

List Name	Description	Reference pages
Configuration	Prints the table of all menu category items and the current settings. Further, the advanced printer settings are also printed in the page header.	Page 131
Demo Page	Prints the demo print data stored in the printer.	Page 132
File List	Prints the file list.	Page 52
Usage Report	Prints the total print results.	Page 133
Error Log	Prints the errors detected and saved by the printer.	Page 133
Color Profile List	Prints the color profile list.	Page 134
Color Adjustment Pattern	Prints the patterns to match the shading characteristics.	Page 104 Page 106
User Media List	Prints the user media list.	Page 135
Test Print-1	Prints the patterns for analyzing the print quality.	Page 135
Test Print-2	Prints the patterns for analyzing CYMK print quality.	Page 135
Test Print-3	Prints the patterns for analyzing the status of the print cartridges.	Page 135
Test Print-4 *1	Prints the patterns for analyzing print quality of the spot colors.	Page 135
Cleaning Page	Prints the toner-free white sheet to remove dirt from the surface of the fuser belt in the fuser unit.	Maintenance Guide

\*1: Displayed with Pro1050 only.

• Paper is cut at a fixed length when printing a report, so do not use die-cut label paper.

• To attain the full benefit of the report printing function, load paper that is 130 mm wide.

• Printing is canceled if a print cartridge for a color that is required for report printing is not lifted down.

# **Printing Printer Setup Lists**

#### Configuration

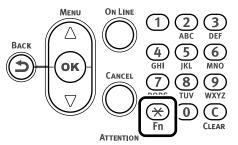
Print the device information.

Print to see the remaining quantity of consumables and other set values such as IP addresses and MAC addresses, and to check whether the printer is operating correctly, etc.

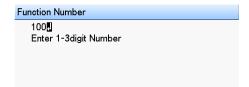
#### ■ To print

Press the <Fn> key.

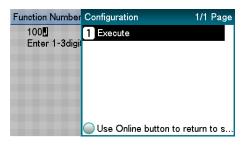
The numerical values input screen will be displayed.



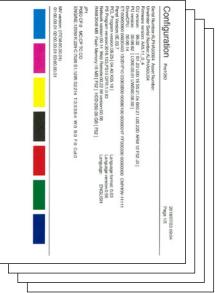
Press <1>, <0>, <0> (function numbers), and then press the <OK> button.



3 Confirm that [Execute] is selected, and then press the <OK> button.



#### Printing result samples

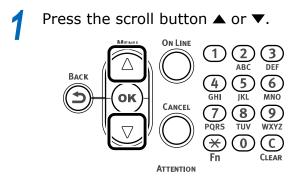


# Printing Printer Information Lists

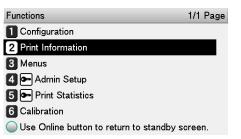
#### **Demo Page**

Prints demonstration pages.

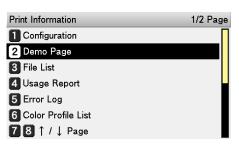
## ■ To print



2 Select [Print Information], and then press the <OK> button.

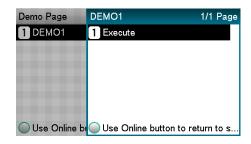


Select [Demo Page], and then press the <OK> button.



4 When [DEMO1] appears, select one of the items to be printed, and then press the <OK> button.

5 Confirm that [Execute] is selected, and then press the <OK> button.



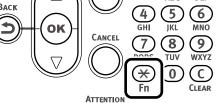
#### **Error Log**

Prints the history of the errors that have occurred in the device.

# ■ To print

Press the <Fn> key.

The numerical values input screen will be displayed. Menu **ON LINE** 1) (2)(3) ABC DEF Васк



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

Fun	ction N	umber			
	103				
	Enter 1	-3digit N	lumber		
		<b>-</b>			

Confirm that [Execute] is selected, and then press the <OK> button.

Function 1	Vumber	Error Log	1/1 Page
103		1 Execute	
Enter			
		Olina hutta	n to roturn to o
		Ose Online butto	on to return to s

#### **Usage Report**

Prints the total print results.

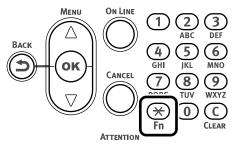


Not displayed if [Usage Report] of [Print Statistics] is set • to [Disable].

# To print

Press the <Fn> key.

The numerical values input screen will be displayed.

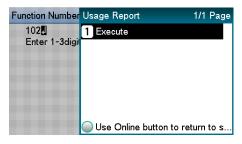


Z

Press<1>, <0>, <2> (function numbers), and then press the <OK> button.

Function Nu	mber	
102		
Enter 1-	3digit Number	

Confirm that [Execute] is selected, and then press the <OK> button.



Use the numeric keypad or the scroll buttons (▲, ▼) to specify the number of copies, and then press the <OK> button.

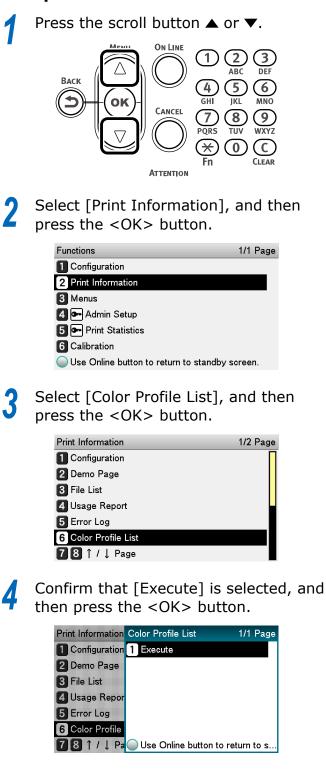
F١	unction Number	Copies
	102 <b>.</b> Enter 1-3digi	✓ 1 (1 - 100)
		Use Online button to return to s

# **Printing Print Lists**

#### **Color Profile List**

Prints the table of the ICC profiles registered on the printer.

#### ■ To print



#### **User Media List**

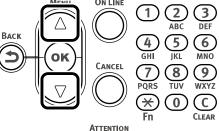
Prints the table of the user media registered to the device.



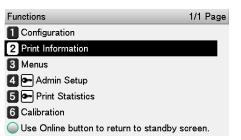
• Displayed when the user media is registered.

#### ■ To print

Press the scroll button  $\blacktriangle$  or  $\blacktriangledown$ . **ON LINE** 



Select [Print Information], and then press the <OK> button.





Select [User Media List], and then press the <OK> button.

Print Information	2/2 Page
1 User Media List	
2 Test Print-1	
3 Test Print-2	
4 Test Print-3	
5 Test Print-4	
6 Cleaning Page	
<b>7 8</b> ↑ / ↓ Page	

Confirm that [Execute] is selected, and then press the <OK> button.

Print Information	User Media List	1/1 Page
🚺 User Media L	1 Execute	
2 Test Print-1		
3 Test Print-2		
4 Test Print-3		
5 Test Print-4		
6 Cleaning Pag		
78↑/↓Pa	Use Online button	to return to s

#### **Test Print**

Prints the print quality lists.

• Test Print-1

Prints the patterns for analyzing the print quality.

• Test Print-2

Prints the patterns for analyzing CMYK print quality.

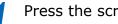
Test Print-3

Prints the patterns for analyzing the status of the print cartridges.

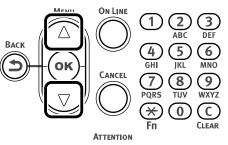
Test Print-4

Prints the patterns for analyzing print quality of the spot colors (white). Displayed with Pro1050 only.

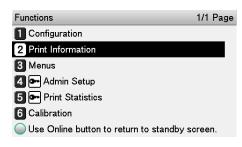
#### To print



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



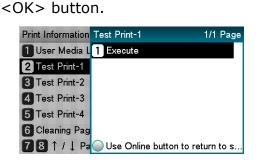
Select [Print Information], and then press the <OK> button.



3 Select [Test Print-1], [Test Print-2], [Test Print-3], or [Test Print-4], and then press the <OK> button.

Print Information	2/2 Page
1 User Media List	
2 Test Print-1	
<b>3</b> Test Print-2	
4 Test Print-3	_
5 Test Print-4	
6 Cleaning Page	
<b>7 8</b> ↑ / ↓ Page	

Δ



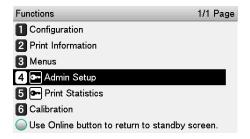
When [Execute] appears, press the

# Changing the Administrator Password

Change the administrator password. The factory default setting is [999999].

Press the scroll button  $\blacktriangle$  or  $\blacktriangledown$ . **ON LINE** 1 2 3 ABC DEF Васк 6 4 5 GH JKL MNO OK CANCEL 7)  $(\mathbf{8})$ 9 PQRS TUV WXYZ \* 0  $(\mathbf{C})$ Fn CLEAR ATTENTION

2 Select [Admin Setup], and then press the <OK> button.

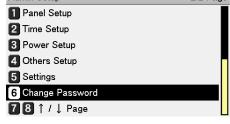


Enter the administrator password, and then press the <OK> button.

Enter Password
*****
(6 - 12 digits )
Use Online button to return to standby screen.

Select [Change Password], and then

press the <OK> button.



1

# 5 Enter the new password, and then press the <OK> button.



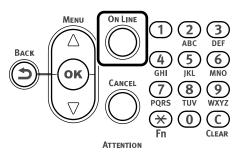
• Specify a password that is at least six characters long.

Admin Setup	New Password
Panel Setup	*****
2 Time Setup	(6 - 12 digits )
3 Power Setup	
4 Others Setur	
5 Settings	
G Change Pass	6
7 8 1 / J P	Use Online button to return to s

6 Re-enter the new password, and then press the <OK> button.

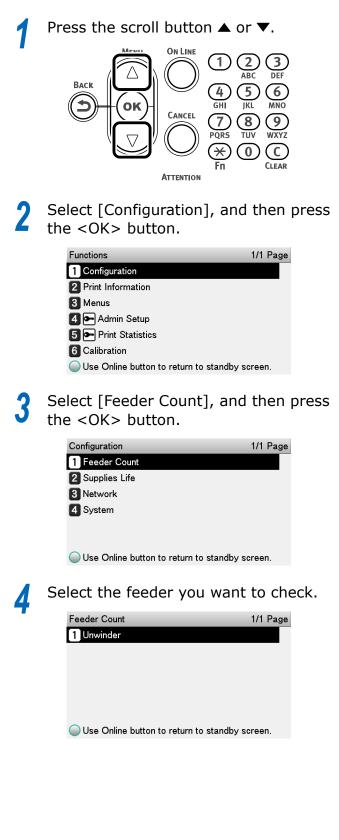
Admin Setup	Verify Password
Panel Setup	******
2 Time Setup	(6 - 12 digits )
3 Power Setup	
4 Others Setup	
5 Settings	
G Change Pass	
[7]8]↑/↓Pa	Use Online button to return to s

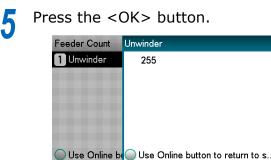
7 Press the <ON LINE> button to return to the standby screen.



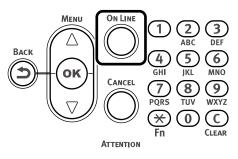
# Checking the Print Count

You can check the quantity of paper printed from the unwinder to date.





6 Press the <ON LINE> button to return to the standby screen.





# Utility Software Usable with This Printer

Utility List 140
Installing a Utility 141
Color Correct Utility 143
Using a Web Browser to Configure the Network Setup 153
Configuration Tool 184
OKI LPR Utility 190
Network Extension 195
Color Swatch Utility 197
Status Monitor 199

# • Utility List

Utility Name	Description	Operating Environment	Reference
Color Correct Utility	Adjusts color matching.	Windows 10/Windows 8.1/	pagesPage 143
	Can be used to change the overall	Windows 8/Windows 7/	
	tendency of output colors by adjusting	Windows Server 2016/	
	the palette color output colors, and/	Windows Server 2012 R2/	
	or by adjusting gamma values, and	Windows Server 2012/	
	primary color hue and saturation.	Windows Server 2008 R2/	
		Windows Server 2008	
Web Browser	Can be used to view messages	Computer with Microsoft	Page 153
	displayed on the printer, and to	Internet Explorer, Safari,	
	configure network settings and other	Google Chrome, or Firefox	
	settings.	installed	
Configuration Tool	Can be used to register and manage	Windows 10/Windows 8.1/	Page 184
	printer network settings with the	Windows 8/Windows 7/	
	printer's hard disk.	Windows Server 2016/	
	Can also be used to register and delete		
	form data, and to manage saved jobs.	Windows Server 2012/	
		Windows Server 2008 R2/	
		Windows Server 2008	
Color Swatch Utility	Prints color samples. This utility can	Windows 10/Windows 8.1/	Page 197
	be used to check printed colors. This	Windows 8/Windows 7/	
	utility is installed automatically when a		
	printer driver is installed.	Windows Server 2012 R2/	
		Windows Server 2012/	
		Windows Server 2008 R2/	
		Windows Server 2008	Dec. 100
OKI LPR Utility	Can be used to print over a network	Windows 10/Windows 8.1/	Page 190
	connection, to manage print jobs, and	Windows 8/Windows 7/	
	to check the printer status.	Windows Server 2016/	
		Windows Server 2012 R2/	
		Windows Server 2012/	
		Windows Server 2008 R2/ Windows Server 2008/	
		Computer running TCP/IP	
Network Extension	Can be used to check printer setup	Windows 10/Windows 8.1/	Page 195
Network Extension	items from a printer driver and to	Windows 8/Windows 7/	rage 195
	configure option settings.	Windows Server 2016/	
	This utility is installed automatically	Windows Server 2012 R2/	
	when a printer driver is installed on a	Windows Server 2012/	
	network connection.	Windows Server 2008 R2/	
		Windows Server 2008/	
		Computer running TCP/IP	
Status Monitor	Monitors the printer status.	Windows 10/Windows 8.1/	Page 199
	Also can be used to acquire	Windows 8/Windows 7/	. ugo 199
	information of the reports below as a	Windows Server 2016/	
	CSV file.	Windows Server 2012 R2/	
	Configuration	Windows Server 2012/	
	• Error Log	Windows Server 2008 R2/	
	Color Profile List	Windows Server 2008	
	User Media List		

# Installing a Utility

Use the procedure below to install the utility you want to use.

- 1 Insert the "Software DVD-ROM" into the computer.
- 2 On the "AutoPlay" screen that appears, click [Run Setup.exe].
- **3** When the "User Account Control" window is displayed, click [Yes].
- **4** Read the "Software License Agreement", and click [Accept].
- 5 Select the printer connection method, and then click [Next]. (In this example, we will select network connection.)



6

Start searching for a printer. After supported printers are detected, select this printer from the list and then click the [Next] button.

окі	interface his	lwork.			() Help	) 💷	User's Manual	
Device Sel	ection							
Please select th	e target de	vice, and click	. Next.					
Device search cond	tions							
Gearch address	295.2	11 . 211 . 215	Saarch		Metwork Setting	)		
Cericename IPA	dress Getti.	IP ADDress	NAC Address	Derial Number	Protectante			
Pro1050 Max	ad .	192 158 0 2	002533668150	ALPHA60004	Pri 1016-9E8 160			
							7	,
								-
							1	,
							-	
							-	

Click [Custom Install].



8 Select the check box next to the software you want to install, and then click [Install].

			Datizh install Separate install
Category		Other Software (3)	
A3 Berns (4) Dever (1)		Color Conect Unity	6
Other Software (3)	>	Status Monitor Checks the current status of the device.	6
		Configuration Tool Device status and configuration.	6

9 Confirm that the correct software is selected, and then click [Start].

	ware		
se click [Start] to begin insi	tallebon.		
Solver	Stetus	Installation progress	
Caler Carrett UNRy Status Hereiter			
Cardquaton Tool			



11 On the configuration screen of the device, click [Next].



**12** On the completion screen, click [Exit] to exit installation.



# Color Correct Utility

# **Changing Palette Colors**

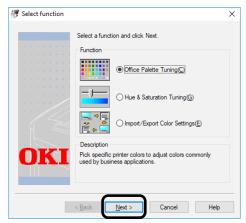
The Color Correct Utility can be used to specify palette colors selected with Microsoft Excel, Word, and other applications within the adjustment range.

# Note

- For information about the Color Correct Utility setup, see "Installing a Utility" (P.141).
- To print using the sample print function or the test print function of the Color Correct Utility, load 130-mm wide Continuous Paper in the printer's unwinder.
- Configure settings for each of the printer drivers.
- For test printing, use paper that is a size supported by the printer being used.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility for color matching.

Use the Color Correct Utility to perform color adjustment.

- Perform the following operation to start up the Color Correct Utility: [Start] > [Okidata] > [Color Correct Utility].
- (2) Select [Office Palette Tuning], and then click [Next].

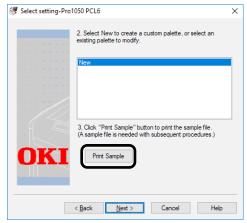


(3) On the "Select Printer" screen that appears, select the printer to be used, and then click [Next].

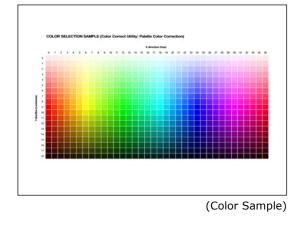
🖅 Select printer		×
	1. Select a printer.	
	Pro1050 PCL6	
· · · · · · · · · · ·		
· · · · · · / )		
OKI		
OKI		
<	Back Next > Cancel Help	

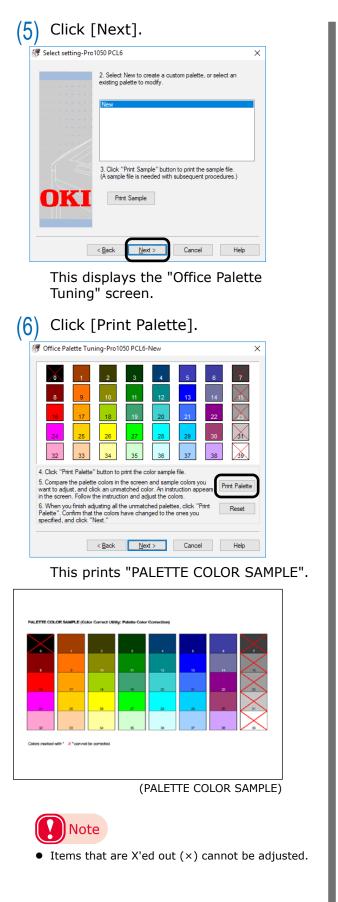
# Memo

- This displays a list of installed printer drivers. Configure settings for each of the printer drivers.
- (4) On the "Select setting" screen that appears, select a setup, and then click [Print Sample].

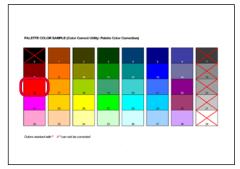


This prints "Color Sample".





- (7) Compare the palette (screen colors) of the "Office Palette Tuning" screen with the printed "PALETTE COLOR SAMPLE". If the colors are different, adjust them. (This example below shows palette color adjustment of the color circled in red, below.)
  - PALETTE COLOR SAMPLE



• Office Palette Tuning Screen

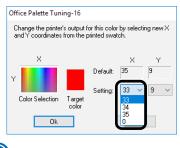


(8) On the "Office Palette Tuning" screen, click the color to be adjusted (screen color).



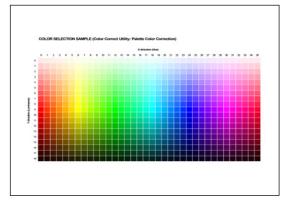
This displays the "Adjustment values input" screen.

(9) Use the X-value and Y-value pulldown menus to check their allowable setting ranges, and then click [CANCEL].



#### Memo

- In order to preserve overall balance, the allowable adjustment ranges depend on the color.
- (10) For the adjustment color (screen color) of the "Office Palette Tuning" screen, search the "COLOR SELECTION SAMPLE" for the desired color within the adjustment range, and note the X-direction (hue) and Y-direction (brightness) values (X-value and Y-value).

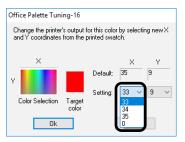


(11) On the "Office Palette Tuning" screen, click the color to be adjusted (screen color).



This displays the "Adjustment values input" screen.

(12)On the "Adjustment values input" screen, select the X-value and Y-value you found in step (10) of this procedure, and then click [OK].



The display will return to the "Office Palette Tuning" screen.

(13) Click [Print Palette] to print the "PALETTE COLOR SAMPLE". After confirming that the changed "PALETTE COLOR SAMPLE" color is closer to the color sample color for the configured settings, click [Next].

For other colors you want to adjust, repeat steps (8) through (13) of this procedure.



# (14)Enter the setting name, and then click [Save].

🖅 Save setting-Pro10	50 PCL6-New	×
	7. Save the modified palette. The name you enter will appear as a color setting in your printer driver. Save Setting Please input save name.	
	Setting Name: new modify Save	
OKI	< Back Finish Cancel Help	



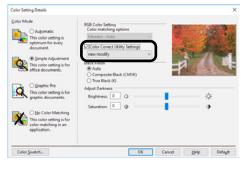
 If you update or re-install the printer driver, created color adjustment names will be re-imported when you start up the Color Correct Utility. After confirming that the Color Adjustment name is shown for [Select Setup], click [Exit].

(16)Click [Finish] to exit the Color Correct Utility.

2 Use a printer driver to select a setup name, and then print.

#### Windows PCL Printer Driver

- Open the file to be printed.
- (2) Select [Print] in the [File] menu.
- (3) Click [Preferences] (or [Properties]).
- (4) On the [Color] tab, click
   [Detail], and then select [Simple Adjustment].
- (5) Select the [Color Correct Utility Settings] check box, select the settings you created with the Color Correct Utility, and then click [OK].



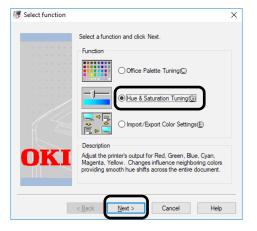
Print. (6)

### Changing the Gamma Value and Hue

You can use the Color Correct Utility to adjust the gamma value and/or hue for color matching.

## Note

- For information about the Color Correct Utility setup, see "Installing a Utility" (P.141).
- To print using the test print function of the Color Correct Utility, load 130-mm wide Continuous Paper in the device's unwinder.
- Configure settings for each of the printer drivers.
- For test printing, use paper that is a size supported by the printer being used.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility.
  - Use the Color Correct Utility to change the gamma value, hue, and other settings.
    - Perform the following operation to start up the Color Correct Utility: [Start] > [Okidata] > [Color Correct Utility].
    - (2) Select [Hue & Saturation Tuning], and then click [Next].



(3) On the "Select printer" screen that appears, select the printer to be adjusted, and then click [Next].

Select printer		×
	1. Select a printer.	
	1. Select a plinter.	
	Pro 1050 PCL6	
OTZT		
DKI		
	< Back Next > Cancel	Help

#### 🖉 Memo

- This displays a list of installed printer drivers. Configure settings for each of the printer drivers.
- (4) On the "Select setting" screen that appears, select the mode you want to use as the standard, and then click [Next].

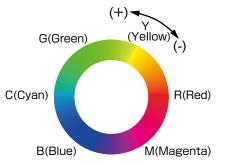
Select setting-Pro	1050 PCL6	×
	<ol> <li>Select one of the printer's color settings as a starting point for additional adjustments.</li> </ol>	
	Monitor - Perceptual Monitor - Vivid Monitor - light Adobe RGB SRGB	
OKI		
	< Back Next > Cancel Help	

# (5) To adjust, move the [Gamma], [Hue], and [Saturation] sliders.

	Gamma	
4.Select a color and adjust I Printer Colors Page Red(R) Yellow(Y) Green(G) Cyan(C) Blue(L) Magenta(M)	Saturation	
5. Click ""Print Test"" to rev settings. Print Test	ew your changes. Click ""Reset"" to r Reset	estore the original

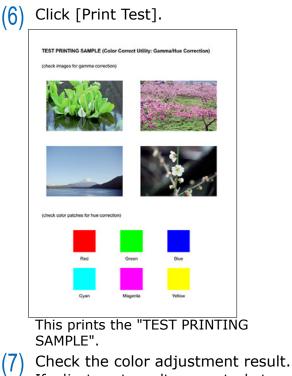
# Memo

- The [Gamma] slider can be used to adjust overall brightness, while the [Brightness/ Saturation] slider adjusts the output color.
- Brightness is increased by sliding the [Gamma] slider to the left.
- You can change the color being adjusted by using the printer color buttons.
- The [Hue] slider adjusts each color in the color wheel forward (+) direction or reverse (-) direction. For example, moving the slider in the plus (+) direction while Y (Yellow) is selected will move towards G (Green), while moving in the minus (-) direction moves towards R (Red).

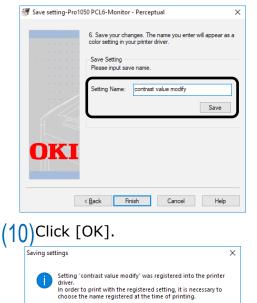


• The [Use printer's unadjusted color.] option adjusts based on use of colors that are 100% toner primary colors. Selecting the check box for this option fixes the [Gamma] slider for the selected color and performs adjustment so printing uses the toner blends shown below.

Printer Color	Result
Cyan (C)	Cyan toner 100%
Magenta (M)	Magenta toner 100%
Yellow (Y)	Yellow toner 100%
Red (R)	Magenta toner 100% + Yellow toner 100%
Green (G)	Cyan toner 100% + Yellow toner 100%
Blue (B)	Cyan toner 100% + Magenta toner 100%



- (7) Check the color adjustment result. If adjustment results are not what you expected, repeat steps (5) and (6) of this procedure.
- (8) Click [Next].
- (9) Enter the setting name, and then click [Save].



# Note

- If you update or re-install the printer driver, created color adjustment names will be re-imported when you start up the Color Correct Utility. After confirming that the Color Adjustment name is shown for [Select Setup], click [Finish].
- (11)Click [Finish] to exit the Color Correct Utility.

2 Use a printer driver to select a setup name, and then print.

### Windows PCL Printer Driver

- (1) Open the file to be printed.
- 2) Select [Print] in the [File] menu.
- (3) Click [Preferences] (or [Properties]).
- (4) On the [Color] tab, click [Detail], and then select [Simple Adjustment].
- (5) Select the [Color Correct Utility Settings] check box, select the settings you created with the Color Correct Utility, and then click [OK].

Color Mode	RGB Color Setting Color matching options Monitor - Auto	1
optimum for every document.	Color Correct Utility Settings contrast value modify	1100
This color setting is for office documents.	Black Finish	
Ographic Pro This color setting is for graphic documents.	Adjust Darkness Brightness: 0 0	÷
O No Color Matching This color setting is for color matching in an application.	Saturation: 0 ()	•
Color Swatch	OK Can	cel <u>H</u> elp Defay

# Saving a Color Adjustment Setup

You can use the Color Correct Utility to save a setup to a file.

# Note

- For information about the Color Correct Utility setup, see "Installing a Utility" (P.141).
- Configure settings for each of the printer drivers.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility.

Start up the Color Correct Utility.

- Perform the following operation to start up the Color Correct Utility: [Start] > [Okidata] > [Color Correct Utility].
- (2) Select [Import/Export Color Settings], and then click [Next].

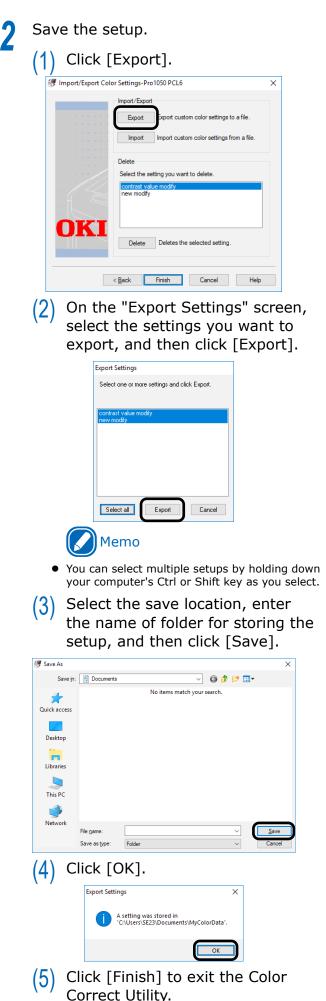
Select function		×
	Select a function and click Next.	
	Function	
	Office Palette Tuning(C)	
	Hue & Saturation Tuning(G)	
	mport/Export Color Settings(E)	
OKI	Description Share Color Correct adjustments with other users.	
	< Back Next > Cancel Help	

(3) Select the printer whose setup you want to save, and then click [Next].

🖲 Select printer		)
_	Select a printer driver for Importing, Exporting or deleting color settings.	
	Pro 1050 PCL6	
		1
OTT		
OKI		
<b>U</b> III		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
	< Back Next > Cancel Help	

This displays the "Import/Export Color Settings" screen.

🖅 Import/Export Cold	or Settings-Pro1050 PCL6	×
	Import/Export	
	Export Export custom color settings to a file.	
	Import Import custom color settings from a file.	
	Delete	
	Select the setting you want to delete.	
	new modify	
OKI	Delete Deletes the selected setting.	
	< Back Finish Cancel Help	

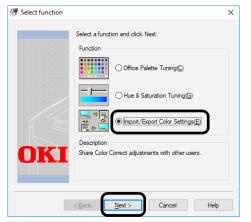


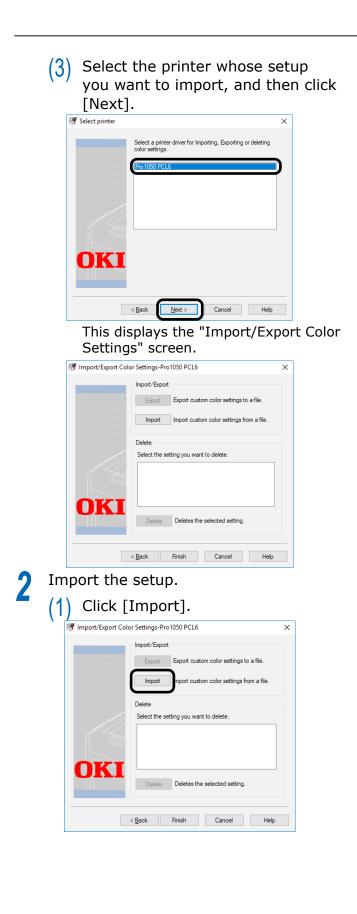
## **Importing a Color Adjustment Setup**

You can use the procedure below to import a color adjustment setup from a file.

## Note

- For information about the Color Correct Utility setup, see "Installing a Utility" (P.141).
- Configure settings for each of the printer drivers.
- This utility cannot be used for a printer that is connected for printer sharing.
- PC administrator privileges are required to use the Color Correct Utility.
  - Start up the Color Correct Utility.
    - Perform the following operation to start up the Color Correct Utility: [Start] > [Okidata] > [Color Correct Utility].
    - (2) Select [Import/Export Color Settings], and then click [Next].





(2) In the folder where the setup you want to import is stored, select the appropriate CCM file, and then click [Open].

🖅 Open				×
Look jn:	MyColorDa	ta	v 🧿 🛊 🔛 💷 •	
	Name	^	Date modified	Type
Quick access	MyColorE	Jata.ccm	6/8/2018 11:09 AM	CCM File
Desktop				
Libraries				
This PC				
-				
Network	<			>
	File game:	MyColorData.com	~	Open
	Files of type:	CCM F(es('.com)	~	Cancel

(3) On the "Import Settings" screen that appears, select the setup you want to import, and then click [Import].

	Import Settings	
	Select a setting you want to import and click ""Import"" button.	
	contrast value modify new modify	
	Select all Import Cancel	
	Memo	
	<ul> <li>You can select multiple setups by holding your computer's Ctrl or Shift key as you</li> </ul>	
(4	After confirming that the set been imported, click [Finish]	-
	Import/Export Color Settings-Pro1050 PCL6 X	
	Import/Export	
	Export Export custom color settings to a file.	
	Delete Select the setting you want to delete.	
	Contra velue modify	

Delete Deletes the selected setting

Cancel Help

Finish

OKI

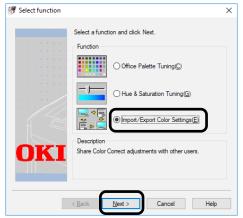
< <u>B</u>ack

Color Correct Utility

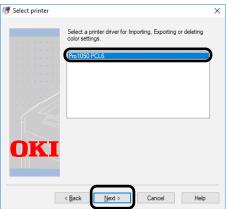
### Deleting a Color Adjustment Setup

You can use the procedure below to delete color adjustment setups you no longer need.

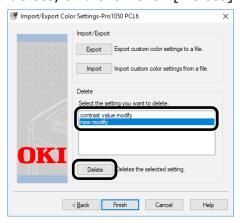
- Perform the following operation to start up the Color Correct Utility: [Start] > [Oki Data] > [Color Correct Utility].
- 2 Select [Import/Export Color Settings], and then click [Next].



**3** Select the printer whose setup you want to delete, and then click [Next].



From the list, select the setup you want to delete, and then click [Delete].



Click [Yes] to delete the setup.

5

arning		×
	Are you sure you want to delete this setting?	
	<u>Y</u> es <u>N</u> o	

6 After confirming that the setup has been deleted, click [Finish].

🖅 Import/Export Colo	r Settings-Pro1050 PCL6	×
	Import/Export	
	Export Export custom color settings to a file.	
	Import Import custom color settings from a file.	
	Delete	
	Select the setting you want to delete.	_
OKI	contrast value modify	
	Delete Deletes the selected setting.	
	< Back Finish Cancel Help	,

# Using a Web Browser to Configure the Network Setup

## **Operating Environment**

Computer with Microsoft Internet Explorer, Safari, Google Chrome, or Firefox installed

Computer running TCP/IP



• Check to make sure that the security setting of the web browser is MEDIUM.

The explanation here is based on the example environment described below.

- Printer name: Pro1050
- Printer IP address: 192.168.0.2
- MAC Address: 00:80:87:84:9C:9B
- Web Browser: Microsoft Internet Explorer Ver.11

### **Starting Up**

- Start up the web browser.
- In the address bar, enter the following URL then press [Enter]: http://<printer IP address>/.



This displays the printer status screen.



 If the IP address includes a one-digit or two-digit number, do not enter leading zeros. Doing so may cause communication problems.
 Example: Correct: http://192.168.0.2/

Incorrect: http://192.168.000.002/

### Logging in as an Administrator

## Note

• To change printer settings using a web browser, you need to log in as a printer administrator.

#### Click [Administrator Login].



2 For [Username] enter "root", for [Password] enter the current password, and then click [OK].

Windows Security	×
<ul> <li>The server 192.168.100.100 is asking for your user name a password. The server reports that it is from Pro1050.</li> </ul>	nd
root	
•••••	
Remember my credentials	
OK Cancel	



• The password is the same as the control panel "Administrator Password".

3 Specify the configuration information that can be checked on the network, and then click [OK] or [SKIP].

Printer Identification		and the second	
Frinter Name	041-0103300-068540 00	n.Bii shurastan0	
	this is the devices short by so the s	stook (systems, and materianus).	
Short Printer Name	Pvs1056-968160 [tes.15	lass.tem]	
	This is Printer Name for WINL 4 m (sight-chameric characters and 12	atimum of 13 characters can be used in acceptable.)	
Printer Location		(max.100 characters)	
Auset Number		(Max.20 characterid	
Contact Name - Administrator		(Nac.355 characters)	
Protocol			
TCP/IP	Enable		
Notifields over TCP	Featler W		

### Note

- You can skip configuring settings by clicking [SKIP].
- Selecting the [Do not show this page again] checkbox, and then clicking [OK] or [SKIP] will cause this page not to be displayed any more.

# **4** This will display the screen below.

View Information	Distor Menu   Admin Satur	Calibration   Links		us Carbidge Re	
2 2 M A	_	_		Com Com	1
D Feeder Count	A		iresh ru		- 1 m
D Supples Life	Ready To Prin	C Rebe	Window	- 44 m	<b>-1</b> ***
				***	<b>.</b>
O Usage Report	-				1
a hatwork	<b>Printer Information</b>		Print Se	vvice En	abled
O System	Printer Name	CHI-Pro1050-968150	LPR		•
	IPv4 Address	192.168.100.190	Pertigin	90	•
	IPv6 Address		FTP		0
	Nell 3. 0000.0	000.0000.0225.36#.fv9v	allid IPP		•
	6000.0000.000	0.00010000.000010000		Service En	abled
	HAC Address	00.25.36.16.81.60	SNHP		•
	Printer Location	WILLIAM STREET	WEB		•
	Secial Number	ALPHIL50004	Teinet		0
	Asset Number	PD TODING			
	Contact Name - Administrator				
	HOD	Installed			
	RAM	204895			
	Version Information				
	Firmwore Version	A45.11.0.4			
	CU Version	99.32			
	PU Version	00.06.82			
~	Network FW Version	00.34			
· >	Web Remote Version	00.32			

# **Item List**

 $\bigcirc$  : Appears for a person logged in as a printer administrator.

#### ■ View Information

Pro1050				
	mabos i Prister Mesu I Admis Sets	o 1 Calibration / Lanka		
View Information	A			a famalising -
O States		Refresh	Come I	
DiFeeder Count	Ready To Prin	at l	- Value	-
D Supplies Life		Status Windo		
D Uhape Report			vites E	
B Network	Printer Information		Eviat Service	Inshiel
	Printer Name	(NI-Pro1153-50E160	LPR	
O System	IPv4 Address	192 148 100 100	Pertition	
	EPv6 Address		F IP	õ
	5460:0000:0	1000-0000-0225-397 felle billid	1949	ě
	0000-0000-00	00.0003-0000-0000-0000-0000	Setting Service	Institut
	MAC Address	All 25 36 60 81 40	Sharp	
	Printer Location	00.25.38.4E.BL MD	WEB	
	Printer Location Serial Number	ALPHASE064	Tailout	0
	Asset Number	ADMADEURA		
	Contact Name - Administrator			
	HED	Installed		
	RAM	204898		
	Version Information			
	Firmwore Version	M511.0.4		
	Cit Werslee	09.32		
	PU Version	03.54.42		
	V Network FW Version	09.34		
-	Web Remote Version	09.22		

Item	Description
Status	Shows the current printer status. All warnings and errors generated by the printer are shown as "problem information". You can also check the operational status of each network service, a configuration list, and the IP address assigned to the printer. For information about the status window, see "To check using the "Status Screen"" (P.157).
Tray Count	Shows the print count.
Supplies Life	Shows the remaining life of consumables.
Usage Report	Shows usage reports.
Network	Can be used to check general information, TCP/ IP status, maintenance information, and other network-related setup information.
System	Shows versions, memory capacity, flash memory capacity, and system related information.

### ■ Print Information ○



Item	Description
Information Print	Can be used to configure print and check information about the network, the font list, and other printer settings.

#### ■ Printer Menu ①

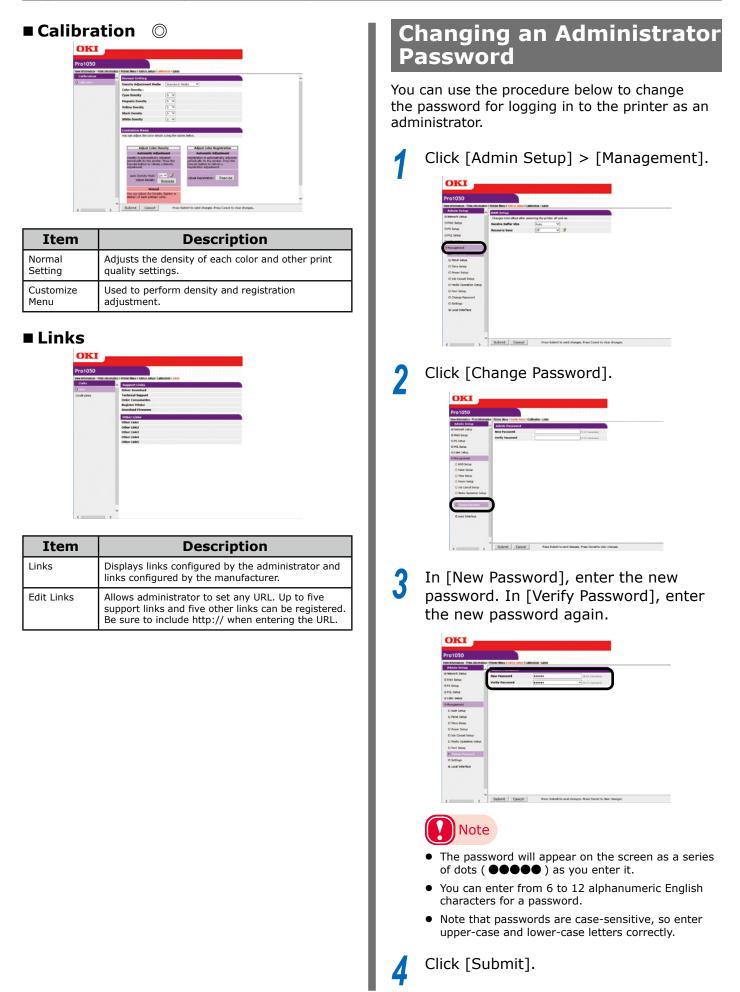
Pro1050		
Printer Mona	nos I Prester Mesu I Admis Settu	
O second had a bella pa	<ul> <li>General Printer field</li> </ul>	
D Unwinder Config	Printer Name	C43-Prost250-002160 (thereit descenters) This is the destaw sherify or the return (spokarse, and Printe Rema).
D Cutter Setup	Short Printer Name	Pro1050-968160 (mul.13 characteri)
O System Adjust		This is Median Names for MDME. It mainteen of ET characters can be used (sightchemories characters and 14" are acceptable).
O Print Adjust	Printer Location	(Nex-211-Associates)
O Unit of Pisasurement	Asset Number	(Mar. 8) (America)
	Contact Name - Administrator	New 2012 descelored

Item	Description
General Printer Settings	Can be used to configure the printer name, asset number, installation location, and other printer settings.
Unwinder Config	You can do settings related to the unwinder and the paper loaded in the unwinder.
Cutter Setup	You can set the cutter operations and the cutting interval. Appears when the unwinder is mounted.
System Adjust	Can be used to configure the power save time, and for clearing warnings, timeout printing, and other printer operations.
Print Adjust	Can be used to configure print position adjustment, print quality, and to adjust other settings.
Unit of Measurement	You can set the units that are displayed.

### Admin Setup



Item	Description
Network Setup	Can be used to configure TCP/IP and other protocol settings.
Print Setup	Can be used to configure toner saving and other printer settings.
PCL Setup	Can be used to configure PCL font and other PCL settings.
Color Setup	Can be used to configure PostScript settings for the CMYK data conversion process and other color settings.
Management	Can be used to configure the power setup, job cancel setup, and other printer settings.



This saves the settings on the printer.

5

You do not need to re-start the printer. Use the new password the next time you log in as an administrator.

### **Checking Printer Settings From a Computer**

You can use the procedures below to check the printer status from a computer over a network.

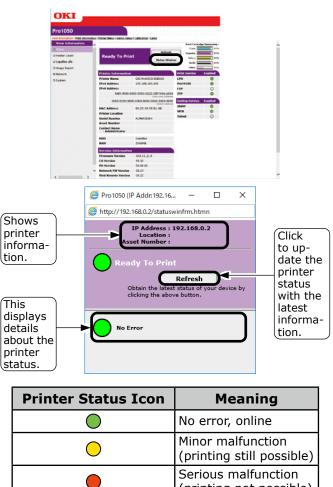
### ■ To check using the "Status Screen"

Access the printer web page and open the "Status" screen.

Administrator Login		(K1-FY12233-FUEHO 192,548,360,100 200,0000-0029-30F Fete bitd Laif-Caut Advan	Point C Com Vicion Vicio Vici Vici		
Freder Chant Ingelien Life Bestroff: Digitarn Administrator Login	Printer Enformation Printer Rame EP+4 Address EP+6 Address 6x00:0000000 0000.0000.000	(K1-FY12233-FUEHO 192,548,360,100 200,0000-0029-30F Fete bitd Laif-Caut Advan	Cree Nogent Vite Bed Vite Distribution FTP		
Innder Churt Ingelien Life Henroch Untern Administrator Login	Printer Enformation Printer Rame EP+4 Address EP+6 Address 6x00:0000000 0000.0000.000	(K1-FY12233-FUEHO 192,548,360,100 200,0000-0029-30F Fete bitd Laif-Caut Advan	Print Service UPR Perint Service UPR Perint Service FEP		
lapiler Lite Henrok Johan Administrator Lagin	Printer Enformation Printer Rame EP+4 Address EP+6 Address 6x00:0000000 0000.0000.000	(K1-FY12233-FUEHO 192,548,360,100 200,0000-0029-30F Fete bitd Laif-Caut Advan	UPR Period Service UPR Period Service FEP		
Network Lipstein Administrator Lagin	Printer Enformation Printer Rame EP+4 Address EP+6 Address 6x00:0000000 0000.0000.000	(K1-FY12233-FUEHO 192,548,360,100 200,0000-0029-30F Fete bitd Laif-Caut Advan	Bad Vite Print Service LPR Per19100 FTP		-
Network Lipstein Administrator Lagin	Printer Name DP-1 Address DP-5 Address FeD-3030-00 0000.0000-000	192.368.300.300 200-0000:0229:38#5#se.3184 Uni-Lasz Aldres	UPA Pertition FTP		
lytten Administrator Login	Printer Name DP-1 Address DP-5 Address FeD-3030-00 0000.0000-000	192.368.300.300 200-0000:0229:38#5#se.3184 Uni-Lasz Aldres	Perint Service LPR Perint 100 FTP		
Administrator Login	Printer Name DP-1 Address DP-5 Address FeD-3030-00 0000.0000-000	192.368.300.300 200-0000:0229:38#5#se.3184 Uni-Lasz Aldres	LPR Pert9100 FTP	z trabied	
Administrator Login	IPv4 Address IPv6 Address fe80:0000:00 0000:0000:000	192.368.300.300 200-0000:0229:38#5ese 5164 Unit-Lasz Address	Pert9100		
Administrator Login	EPv6 Address fe60-3030-60 9000-0030-909	000-0000-0229-30# fields & lad	FTP		
	660-3030-00 9000-0030-909	Unit-Local Address		ě	
	0000 0000 000	Unit-Local Address	Ibb	•	
		0.1903-0000-0000-0000-9030	Setting Ser	vice frailed	
		00:25:36:90:50:50	SNAP	•	
	Printer Location	00.25.30.90.00.00	1918		
	Serial Number	ALPHA30064	Telact	Ó	
	Asset Number	AD4500WA			
	Contact Name				
	- Administrator				
	HED	Installed			
	RAN	214048			
	Version Information	ing a second second			
	Firmusare Version	AA5.11_8_4			
	CJ Version	09.32			
	PU Version	09.96.62			
	Network FW Version Web Remote Version	09.34			

#### ■ To check using the "Status Window"

Click [Status Window], which will display the screen shown below.



(printing not possible)

Offline

 $\bigcirc$ 

### **Changing Printer Settings From a Computer**

You can use the procedure below to change printer settings.



Access the printer web page and log in as an administrator.



2 After changing the settings you want, click [Submit].

# Encrypting Communication (SSL/TLS)

Communication between the computer (client) and printer can be encrypted when configuring settings, performing IPP printing, and when receiving print data with FTP protocol.

(Encryption of SSL/TLS Communication)

### Configuring Settings

The procedure below shows how to use the web to create a certificate with the printer.

The two types of certificates below can be created.

- Self-signed certificate
- CA certificate (CSR creation)



• If the printer's IP address is changed from what it was when a certificate was created, that certificate become invalid. Do not change the printer's IP address after creating a certificate.



Log in as an administrator.



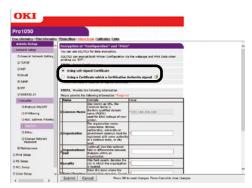
- See "Logging in as an Administrator" (P.154).
- 2 Click in the following sequence: [Admin Setup] > [Network Setup] > [Security].





4

Select the type of the certificate to create in [Step 1].



5 Enter information for the Common Name, Organization, and other items.



 If you selected "Use a certificate issued by a certificate authority", perform detailed content input and other certificate issuing procedures in accordance with issuing authority procedures.

nformation   Print Information 1					
Inde Setup	Name	Hone incrum as URL, the	Velue		
THINKING SAREAD		Common Martie 15			
Ceneral Network Setting	Common Name	the fully qualified domain name (FOEIs)	192.165.100.100		
TOPOP		used for DHS lookups of your			
		printer. The separity for name		_	
ngt		Composition, Revited			
fnal	Ovgenization	partnership, university,or poverment apencyl must be	The lists (proceeding)		
590		registered with some authority at a national state, or dity		_	
10		Intl.			
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Security		prosnication. This field assails denotes the		_	
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O IP Filtering		a located.		_	
O MAC Address riteday	State/Province	organization operates. Do net	Tekyo		
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and the second s		formal country code. For many code, for			
OBSet	Country/Region	For Great Mitais, and US Is	- 14		
O Change Maturalik		the valid code for the United Rubes.			
Password	_				
Naintenance	The following setting	to is recommended.			
ni Setup	Change, these perman				
Setue	Key Exchange me	thed RSA			
fature	Key size	107464			

## Memo

• If you selected a self-signed certificate, the printer's IP address will be set for [Common Name].

If you want to change the key exchange method and key size, click [Key Exchange method]. (The initial default setting is RSA, 1024 bits. Normally, you should use this setting without modifying it.)





## 6 Click [Submit].

□ Self-signed Certificate

To create a CA certificate, advance to "CA Certificate" (P.160).



This displays the input.

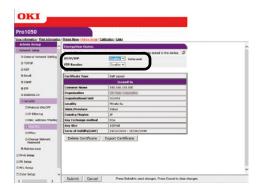
Check the contents, and then click [OK]. This creates the certificate.

Value List	List of User Input Value		
Cipher Level	STANDARD		
Type	self-signed Certificate		
Common Name	192.168.100.100		
Organization	ON Data Corporation		
Organizational Unit	SOUMU		
Locality	Minato-ku		
State/Province	Tokyo		
Country/Region	10		
Key Exchange method	RSA		
Key size	1024bit		

This completes self-signed certificate creation.

Settings are saved on the printer and the network function is restarted.

8 Perform steps 1 through 3 of this procedure to display the encryption (SSL/TLS) setup screen, and then configure protocol settings to enable encryption.



Click [Submit].

9

In this case, advance to "Usage Method" (P.160).

#### CA Certificate

7 This displays the input.

Check the contents, and then click [OK].

Cipher Level	STANDARD	
ype	a Certificate which a Certification Authority signed	
Common Name	www.printer.oki.com	
Organization	IN Data Corporation	
Organizational Unit	SOUMU	
ocality	Minato-ku	
state/Province	Tokyo	
Country/Region	3P	
Key Exchange method	RSA	
Key size	1024bit	

Extract the CSR and send it to the issuing authority. (For a CA certificate)

- Note
- Copy the contents of the text box from "-----BEGIN CERTIFICATE REQUEST -----" to "----- END CERTIFICATE REQUEST -----". Depending on the CA, sending the CSR may mean pasting it into web page, sending it as a file, attaching it to a mail message, etc.

ro1050	
	Printer Meno 1 Admin. Survey 1 Californius I Links
Admin Schup	Send the CSR to a Certification Authority
	Rease send the following CSR(Certificate Signing Request) to a Certification Authority.
O General Network Setting	Send the CSR to a Certification Authority:
O TONOP	Please copy the following text from "BEGIN CERTIFICATE REQUEST" until "END CERTIFICATE REQUEST"
ONET	BERIS CERTIFICATE RECORDT
0 fmal	RITEV;CCALCCAGE+C;ECHE+ALEECCCCCCALCARTADADLAB;+SCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
0.584	VOCES - 1949 TARGET AT THO LARGE STREET TO THE AT LODGE CONTINUES - AND LODGE AND LODG
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O HIDEBRE LX	Lab.rg/Blab9/18d7H46a+0485y/LawXC/C/85d04+5a/hw8Laf8cy245Foq5/LafgX e065a/w6468cawX30a326b/0C66g375/0C6880c0a/s08A065888w4502bA64000
D Security	12c+1271p+C24E212C2p+20E212;4RpiaK/P1+7;7T152K4s204+20H4F71F2L4 with priority of 14 with the 20H7 weak s2 tool sA s fight year is a the individual of the priority of
O Professi ON/OFF	RIPHERLOFFedoral Inches
	the state of the second second second
O IP Filtering	
O MAC Address ritering	And then, send the CSR to a Certification Authority and request the sign.
S4/115	As far the details of the cartificate base procedure, follow the process of the Cartification
OBMec	Authority.
O Change Network	Cipher setting has completed.
	After you receive the signed certificate from a Certification Authority, you will have to install the signed certificate on the Clohor Setting page.
8 Maintenance	
Print Setup	OK
PS Setus	
PCL fields	

9 This installs the certificate issued by the CA (using the web). (For a CA certificate)



Perform steps 1 through 3 of this procedure to display the encryption (SSL/TLS) setup screen.

Paste the part of the generated certificate from "----- BEGIN CERTIFICATE -----" to "-------" END CERTIFICATE -----" into the text box, and then click [Send].

This completes CA certificate creation.

Settings are saved on the printer and the network function is restarted.

10 Perform steps 1 through 3 of this procedure to display the encryption (SSL/TLS) setup screen, and then configure protocol settings to enable encryption.



11 Click [Submit].

### ■ Usage Method

Start up the web browser, and then enter "https://<printer IP address>" as the address to connect.



## **Printing with IPP**

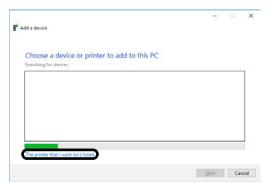
Printing can be performed using IPP.

### To enable IPP printing

- 1 Access the printer web page and log in as an administrator.
  - Select [Admin Setup].
- Select the following: [Network Setup] > [IPP] > [Setting].
- 4 Follow the instructions that appear on the display to configure the setup.
- 5 Click [Submit].

#### To set up the printer as an IPP printer (Windows)

- 1 Click [Start] and select [Control Panel] in [Windows System].
- 2 Select [View devices and printers] > [Add a printer].
- 3 From the list of usable printers, select [The printer that I want isn't listed].



#### Select [Select a shared printer by Δ name]. 🔶 🖷 Add Printer Find a printer by other options ) My printer is a little older. Help me find it. select a shared printer by name http://192.168.0.2/ipp Browse. Example: \\computername http://computername/print ne/ nrinte O Add a printer using a TCP/JP address or hostname Add a Bluetooth, wireless or network discoverable print O Add a local printer or network printer with manual settings Next Cancel 5 Enter "http://<printer IP address>/ipp" or "http://<printer IP address>/ipp/lp", and then click [Next]. 6 Click [Have Disk]. 🔶 🖷 Add Printer Install the printer driver Choose your printer from the list. Click Windows Update to see more models. To install the driver from an installation CD, click Have Disk. Manufacturer Brother Color Leg Type1 Class Driver Brother Brother Color Type3 Class Driver Brother Color Type4 Class Driver Brother Generic Jpeg Type1 Class Driver Eastman Kodak Company This driver is digitally signed. <u>W</u>indows Update <u>H</u>ave Disk.. Next Cancel

- 7 Insert the "Software DVD-ROM" into the computer.
- 8 For [Copy manufacturer's files from], enter one of the paths below, and then click [Find].
  - PCL driver: D:\Drivers\PCLXL

    Install From Disk

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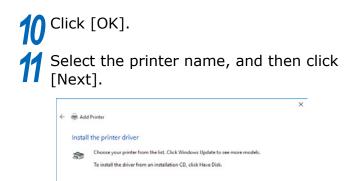
 Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
Copy manufacturer's files from: D:\Drivers\PCLXL ~	<u>B</u> rowse

×

### Memo

• The above is an example when the DVD-ROM drive is the D: drive.

Select the INF file, and then click [Open].



### **Encrypting Communication** (IPsec)

You can configure the settings in this section to encrypt and prevent tampering with communication between the computer (client) and printer at the network layer level.



The IKE protocol supported by this printer is "IKEv1". • The communication mode supported by this printer is "Transport Mode". It does not support "Tunnel Mode". Printer response may slow down while IPsec is enabled, depending on network communication conditions.



• IPsec does not operate with the mail send function or SNMP Trap function.

#### Setup Flow

Configure printer settings before configuring computer settings.

#### To configure the printer setup

The procedure below shows how to use the web to enable IPsec.

Log in as an administrator.

 $\square$ Reference

- See "Logging in as an Administrator" (P.154).
- Click in the following sequence: [Admin Z Setup] > [Network Setup] > [Security].



Click the [IPsec] tab.

01050						
nformation   Print Information	Printer M	lene I Admin. Some I Call	tration / Links			
nin Setup	IPSec	2				
musik setup	STEP1.	IPSec				
General Network Setting	IPSec		Disable V			
DITCHOP		IP Address Settings		****	. the printer will not go to sleep	P
TERC		+ "192.1M.0.2 ")				
b fmail	Complet	te / valid IP Addresses	only. Value of 0.0.6.6	) hi im		
5.5MP		# Address		L	9 Address	_
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DIDENSE IX	2	0.0.0.0	21		0.0.0.0	
(anality	2	0.0.0.0	2	1	0.0.0.0	
O Professi ON/OFF	<u> </u>	0.0.0.0		Ŀ	0.0.0.0	
OPFiltering	5	0.0.0.0	×	T	0.8.0.8	
O MAC Address riteday	1.1	0.0.0.0	21	1	6.0.6.0	
CITER, ADDITES HEREE,	2	0.0.0.0	2	T	0.0.0.0	
	1-1	0.0.0.0	2	T	0.0.0.0	
0.00	1	0.0.0.0	3	T	0.0.0.0	
Password .	~	0.0.0.0	2	T	0.0.0.0	
Haintenance	11	0.0.0.0		Ť	0.0.0.0	
lister	12	0.0.0.0	37	î.	0.0.0.0	
	13	0.0.0.0		T	0.0.0.0	
letter	1	0.0.0.0		î.	0.0.0.0	
	1 pt	0.0.0.0		÷	0.0.0	-

Click [Next].

Click [Finish].

This driver is digitally signed.

A test page is printed after installation is complete.

Windows Update Have Disk...

Next

Cancel

#### Under [STEP1], enable [IPsec]. Δ

# Note

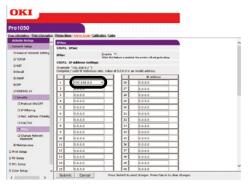
- Set "Enable" for IPsec to encrypt communications from the computer with the IP address you specified in "STEP2".
- The web page will not open if IPsec setup fails because the configured parameters to not match the computer, or because of some other reason. If this happens, use the control panel Network Setup item to disable [IPsec], or perform network initialization to disable **I**Psec.

Pro1050 se Edwardse   Mite Edwardse Admin Schap D Geenal Network Setting D TCP/0F	IPSec SIEPL			
Admin Setup Italwerk Setup D Several Network Setting	IPSec SIEPL			
D Smeral Network Setting	SHPL			
O General Network Setting				
		IPSec	_	
O TOHOP	1Pfec	END	<b>•</b>	
			this feet is enable	d. the proter will not go to sleep
ONIT		IP Address Settings		
0 fmal		e / valid IP Addresses only. Val	tue of 0.0.0.0 is a	n invalid address.
0.594		9 Address		IP Address
8 119	1	0.0.0.0	26	0.0.0.0
O REPERTIZ 1X	2	0.0.0.0	27	0.0.0
O Security	1	0.0.0.0	1 10	0.0.0.0
O Policy Children	11	0.0.0.0	1 17	0.0.0.0
	11	0.0.0.0		0.0.0.0
O IP Filtering	1.1	0.0.0.0	31	0.0.0.0
O MAC Address ritering	171	0.0.0.0	1 12	0.0.0.0
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Prist Salar	H	0.0.0		0.0.0.0
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	Hit .	0.0.0.0	-1 #	0.0.0.0
PS Selve PCL Selve				

Under [STEP2], enter the host IP address.

# Note

- Use an IP address to specify a host that is allowed to print and configure settings.
- For the IPv4 address, use single-byte numerals separated by periods (.).
- For the IPv6 address, use single-byte alphanumeric characters separated by colons (:). Abbreviated notation is not supported.
- Entry of IP address 0.0.0.0. is invalid.

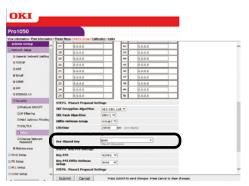


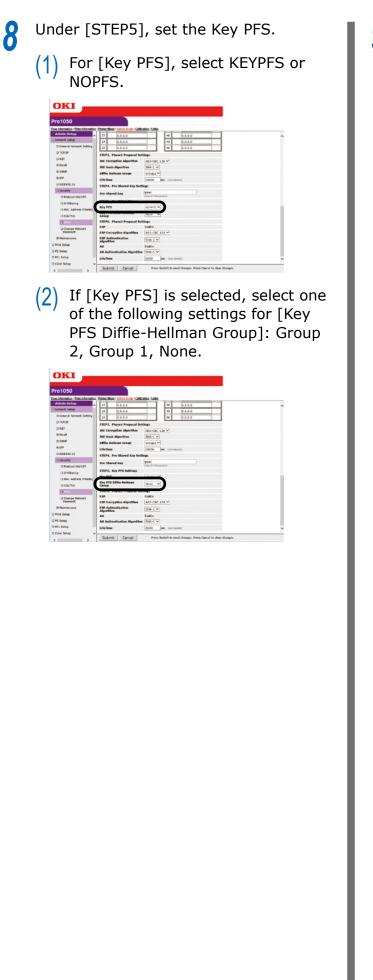
- Under [STEP3], configure the settings 6 of the Phase1 Proposal parameters.
  - For [IKE Encryption Algorithm], (1) select one of the following settings: AES-CBC 256, AES-CBC 192, AES-CBC 128, 3DES-CBC, DES-CBC.
  - (2) For [IKE Hash Algorithm], select SHA-1 or MD5.
  - For [Diffie-Hellman Group], select (3) Group2 or Group1.
  - (4) For [Lifetime], enter and set a value in the range of 600 (seconds) to 86,400 (seconds).

Pro1050					
	Printer Menu   Admin. Scient   Calif	tradice   Links			
Admin Schup	17 0.0.0.0		42	0.0.0.0	
C Although Sellup	28 0.0.0.0		4)	0.0.0.0	
O General Network Setting	29 0.0.0.0		41	0.0.0.0	
O TONOP	20 0.0.0.0		45	0.0.0.0	
ONBE	21 0.0.0.0		i i i	0.0.0.0	
0 fmal	22 6.6.6.6		47	0.0.0.0	
0.5%4P	23 0.0.0.0		1	0.0.0.0	
8 179	24 0.0.0.0			0.0.0.0	
D BEEE 932.1X	25 0.0.0.0		*	0.0.0.0	
O Security	STEP3. Photel Proposal Se	rtines	_		
C) Professi ON/OFF	INI Encryption Algorithm	MS-CRC 12	V.		
C) IP Filtering	TKE Hash Algorithm	644-1 W			
O MAC Address ritering	ing comparing to the	Carrier Contraction			
OSSA/TLS	Lifetime	20000 80		4400	
0.1%					
O Change Nationals Plassword	Pre-Shared Key	(Nor Al Overall			
B Naintenance	STEPS. Key PFS Sollings				
C Print Setup	Key PFS	NORS Y			
Q PS Setup	Key PFS Diffe Helman Group	None w			
C PCL Setup	STEPS. Phase2 Proposal Se	Hinni			

- - Under [STEP4], set the pre-shared key.

For [Pre-Shared Key], enter at least one and no more than 64 single-byte alphanumeric characters. Here, we will show an example where "ipsec" is entered for the character string.

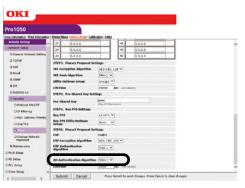




- **9** Under [STEP6], configure Phase2 Proposal settings.
  - To configure [ESP] settings
  - For [ESP Encryption Algorithm], select one of the following settings: AES-CBC 256, AES-CBC 192, AES-CBC 128, 3DES-CBC, DES-CBC.
  - (2) For [ESP Authentication Algorithm], select SHA-1, MD5, or OFF. If you select [OFF], the ESP verification algorithm will not be applied.

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Antwork Setup	24 0.0.0.0	49 0.0.0	
O General Network Setting	25 0.0.0	50 8.0.6.0	
O TONOP	STEP3. Phasel Proposal Se		
ONET	INT Encryption Algorithm	MIS-CBC 128 V	
0 feal	TRE Hesh Algorithm	1419-CBC 128 W	
8.5mp	Diffie Hellman Group	Store V	
8177	Lifetime	2000 Mc 000-0400	
O RECEIPTE 1X	STEPA. Pre-Shared Key Set	and the second	
O Security		terer	
O Professi ON/OFF	Pre-Shared Key	(Han 81 Characlara)	
O IP Filtering	STEPS. Key PFS Settings		
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osa/ns	Key PFS Dillo-Helman Great	None w	
0.22	STEPS. Phase2 Proposal Se	things	
O Change Naturals			
Password	ESP Encryption Algorithm	ADD-CBC 128 W	
8 Naintenance	Algorithm	54-1 4	
Print Setue	AH	Enable	
PS Setup	AH Authentication Algorithm	541-1 V	
PCL fietup	Lifeline	3600 arc (acc-caver)	

- To configure [AH] settings
- For [AH Authentication Algorithm], select SHA-1 or MD5.

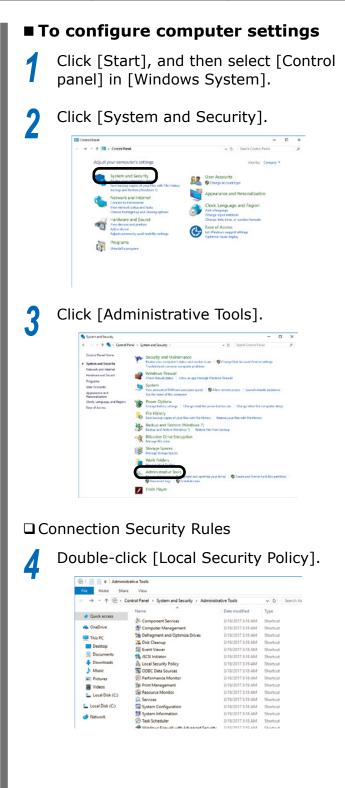


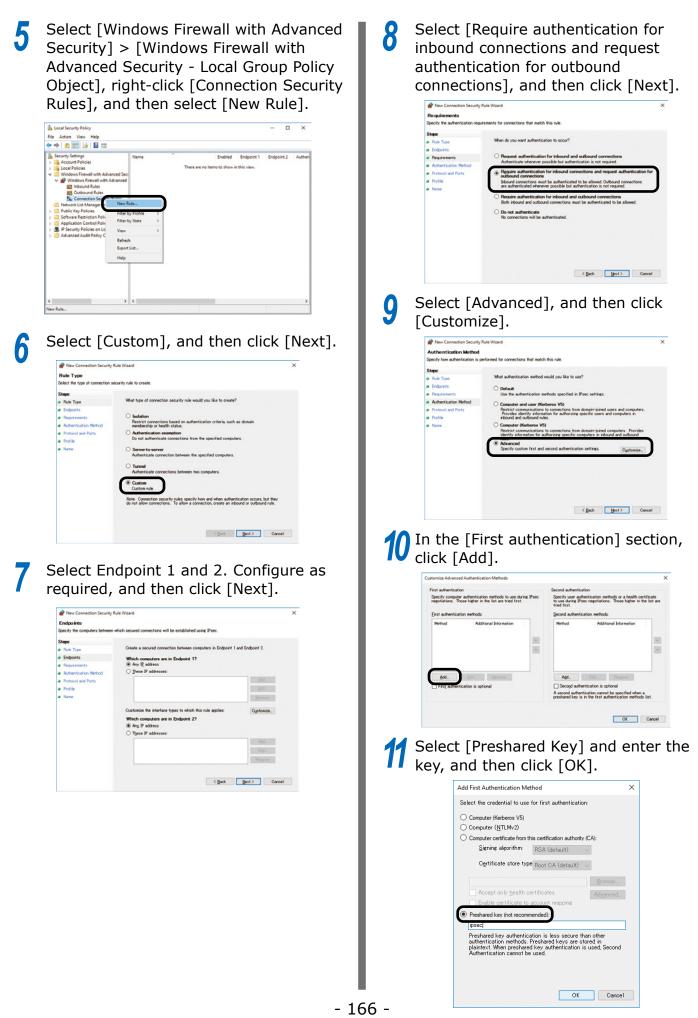
(2) For [LifeTime], enter and set a value in the range of 600 (seconds) to 86,400 (seconds).

Pro1050			
Admin Sector	22 Exister Mess   Admin. Acces   Calif	tates (LBA)	
Annual Color	24 0.0.0.0	40 0.0.0.0	· · · · · · · · · · · · · · · · · · ·
O General Network Setting	23 0.0.0	10 0000	
O TOMOP			
ONIT	STEP3. Phaset Proposal Se		
0 feal	IXE Encryption Algorithm	MIS-CBC 128 W	
0.500	<b>IKE Hash Algorithm</b>	8H4-1 W	
	Diffle Hellman Group	Group2 W	
8 319	Lifetime	28000 MC (101-91403)	
O SEEE 032.1×	STEP4. Pre-Shared Key Set	tings	
O Security	Pre-Shared Key	(greet	
CI Professol City/City		(Nac.84 Oberachers)	
O IP Filtering	STEPS. Key PFS Sellings		
O MAC Address ritering	Key PFS	121975 V	
OSSA/TLS	Key PFS Dillo-Helman Group	None W	
0.154	STEPS. Phase2 Proposal Se	dlings	
O Oxange Naturals	159	Enable	
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8 Naintenance	ESP Authentication	944.1 V	
Print Selver	AH	Evoltie	
PS Selva	and a stand of the stands	FUELD AND	
M'L fature	LifeTime	3500 BBC (1000-06-4900)	

Click [Submit].

**11** Settings are saved on the printer and the network function is restarted.





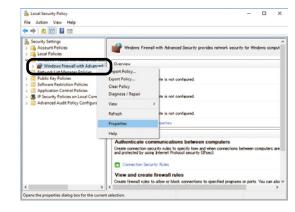


# IPsec Setup

7 Open the [Local Security Policy] of the [Administrative Tools].

Result/setting:     Convert Policies     Local Policies     Local Policies     Local Policies     Local Policies     Windows Finanili and Asanced Sec     Windows Finanili and Asanced     Windows Finanilia and     Windows     Windows Finanilia and     Windows     Windows Finanilia and     Windows     Wind	Name Cost Policies Cost Policies Windows Frenall with Advanced Security Network Lim Manager Policies Public Kity Policies Software Restriction Policies Application Control Policies Magnetics on Local Computer Advanced Audit Policy Configuration	Description Pass-ord and accent fockout policies Auditing, user lights and acculty options policie Windows Freesall with Advanced Security Network name, icon and location group policie Application Control Policies Internet Protocol Security (DNec) Advanced Advanced Audit Policy Configuration

**18** Right-click [Windows Firewall with Advanced Security], and then select [Properties].



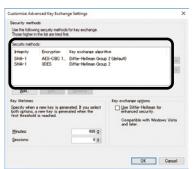
**19** Select the [IPsec Settings] tab. Next, in the [IPsec defaults] section, click [Customize].

Windows Firewall with Advanced Security - Local Group Policy Ob $ imes$								
Domain Profile Private Profile Public Profile IPsec Settings								
IPsec defaults Specify settings used by IPsec to establish secured connections.								
IPsec exemptions								
Exempting ICMP from all IPsec requirements can simplify troubleshooting of network connectivity issues.								
<u>Exempt ICMP from IPsec:</u> Not configured $\checkmark$								
IPsec tunnel authorization								
Specify the users and computers that are authorized use to establish IPsec tunnel connections to this computer.								
<u>N</u> one								
O Advanced Oustomize								
OK Gencel Asply								

20	e [Key exchange (Main on, select [Advanced], a [Customize].	M an	ode)] d then
	Customize IPsec Defaults	$\times$	



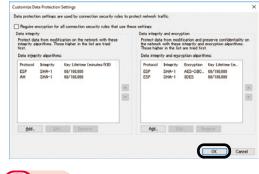
**21** Change the [Security Methods] as required, and then click [OK].



#### 22 In the [Data protection (Quick Mode)] section, select [Advanced], and then click [Customize].

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	l use these settings re are active connec		
	use the default opti ecedence are used.	ons, any settings	in a GPO with a
Key exc	hange (Main Mode)-		
() <u>D</u> ef	ault (recommended)		
● <u>A</u> d•	vanced		<u>C</u> ustomize
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O Det	ault (recommended)		
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O Co	mpute <u>r</u> (Kerberos V5)	)	
<u>∪</u> s	er (Kerberos V5)		
Ad	vanced		Customize

**23** Configure the settings you want, and then click [OK].



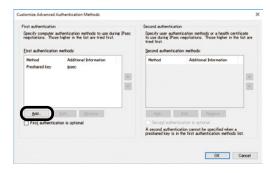
## Note

- Support is provided only for time indicated by the key lifetime. To disable session-specific (IPsec communication data size) conditions, set the maximum value.
- Select "ESP+AH" as the protocol.

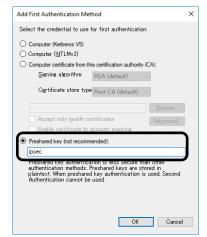
# 24 In the [Authentication method] section, select [Advanced], and then click [Customize].



**25** In the [First authentication] section, click [Add].



# **26**Select [Preshared Key] and enter the key, and then click [OK].



# 27<sup>Click</sup> [OK].



# **28** Click [OK] to exit [Customize IPsec Settings].



29<sup>Click</sup> [OK].

### **Controlling Access by IP Address (IP Filter)**

Access to the printer can be managed using IP addresses.

## Note

- [IP Filtering] is set to [Disable] under the printer initial default settings.
- Take care to enter the IP address correctly. An incorrectly entered IP address can make it impossible to access the printer using IP protocol.
  - Log in as an administrator.

# Reference

- See "Logging in as an Administrator" (P.154).
- 2 Click in the following sequence: [Admin Setup] > [Network Setup] > [Security].

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	and the second
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	et Non + 440) et Non + 4033) etts entition not set port number

### Click [IP Filtering].

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O General Network Setting	IP Filter		Dicable V				
O TCP/IP O NBT		-	CAUTIONII II yo	w set IP Filtering to En- er only from hosts at B	ibie, vou ca Addresses	n set in	
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# 4 Under [STEP1], select [Enable] for [IP Filtering].

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New Information   Print Information	I Printer Mo	ny   Admin Setup   1	Calibration   Links				
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H Network Setup	STIPI	select to tilteric	an Sartinos				
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• Enabling IP filtering disables all access from hosts that are outside the range of IP addresses specified in [STEP2].

Under [STEP2], specify the IP address range.

# Note

- Using IP addresses, enter the range of hosts that are allowed to print and configure settings.
- For the IP addresses, use single-byte numerals separated by periods (.).
- Entry of IP address 0.0.0.0. is invalid.
- When there is overlap of IP addresses, the address range with the highest level set in [Priority] is given priority.
- Regardless of what is specified in [STEP2], you can use [STEP3] to specify administrator addresses for which printing and setting configuration are enabled.

#### 6 Click [Address Range Bar Display/ Refresh].

Pro1050								
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O General Network Setting		6	0.0.0.0	0.0.0.0				
O TCP/IP		7	0.0.0.0	0.0.0.0				
QNRT			0.0.0.0	0.0.0.0				
8 Email		9	0.0.0.0	0.0.0.0				
B SNHP	High	10	0.0.0.0	0.0.0.0				
8 100	Address	Range Ra	r Display/Refres	ih.		lide		
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If you want to modify an IP address range, re-enter the applicable IP addresses, and click [Address Range Bar Display/Refresh] again.

# Under [STEP3], specify the [Administrator's IP Address setting].

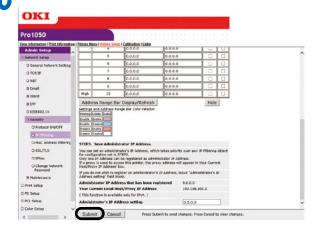
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O TCP/IP				0.0.0.0		0	
O NBT		0	0.0.0.0	0.0.0.0			
9 Email	High	10		0.0.0.0	0	0	
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Even if the wrong settings are configured in [STEP2] due to administrator IP address entry in [Administrator's IP Address setting], the administrator can re-configure the setting from a host with the IP address specified with [Administrator's IP Address setting].

# Note

- If the printer is being accessed via a proxy, the intermediate device's address will be displayed as [Your Current Local Host/Proxy IP Address]. Consequently, the address shown by [Your Host IP Address] may be different from your actual host address.
- If nothing is registered for the administrator IP address, the setting in [STEP2] may make the printer completely inaccessible.
- If you do not want to register an administrator IP address, leave [Administrator's IP Address setting] blank.

### Click [Submit].



9 Settings are saved on the printer and the network function is restarted.

### **Controlling Access by MAC Address**

Access to the printer can be managed using MAC addresses.



 Incorrectly entering a MAC address can make it impossible to access the printer using a network. Exercise caution when entering an address.

Log in as an administrator.

### Reference

- See "Logging in as an Administrator" (P.154).
- 2 Click in the following sequence: [Admin Setup] > [Network Setup] > [Security].

Pro1050		
Admin Setup	-	Calibration 1 Links
Network Setup	Protocol TCP/1P	Enable
O General Network Setting	NetBIOS over TCP	Enacle V
O TCP/IP	Service	
O NET 9 Email	Web (Part No. 1 80)	Enable V If 'Smable', you can not access then your lieb between and, you can not proc with INSP ppr.
B 5NHP	IPP (Port No. 1 631)	Enable V
8 000	Teinet	Disable V
D 1000002.1X	FTP	Disable Y
)) Security	SNMP	Enable V
Frotacsi OlyCIT	SNTP	Disable V
O IP Filtering	Local Ports	Feadle Y
O MAC Address Hibering		
O SSL/TLS	Port Number	
OlPfec	You can not set port num	
O Change Network	Web	00 (x-43030)
Password	SMTP	25 (1-43523)
8 Naintenance		
Print Setup		
PS Setus		
CL Selup		

# Click [MAC Address Filtering].

ina informacion ( Print Information ) Adminis Setturg Internent: Sating D General Network Setting D TCP/IP D NBT B Small B Straight	MAC A STIP1 MAC A STIP2 Comm	<u>kes   Admin Solup   Calibr</u> ddress Filtering - Select MAC Address   ddress Filtering - Set Filtering MAC Ad	CAUTIONII 1 YOU ALL ONLY WITH MAC AD	f you set i	NAC Address Filtering to Brudie. a access the printer from devices et in CTED 2.	^
Network Setting O General Network Setting O TCP/3P O NBT B Small	STUP1 MAC A STUP2 Comm	Select MAC Address (	CAUTIONII I You will only with MAC Ad	f you set i	access the printer from devices	Â
O General Network Setting O TCPI⊅ O NBT © Email	MAC A STEP2 Comm	ddeess Filtering	CAUTIONII I You will only with MAC Ad	f you set i	access the printer from devices	- 1
O TCP/3P O N9T O Cmail	STEP2		CAUTIONII 3 you will only with MAC Ad	be able t	access the printer from devices	
O NBT B Email	STEP2		you will only with MAC Ad	be able t	access the printer from devices	
9 Email	Comm	Set Filtering MAC Ad	with NAC Ad	dresses p	o access the printer more perces	
	Comm	Set Filtering MAC Ad	frees		et in STEP2 and STEP3.	
B SNMP						
	follow	unication from the ing MAC Addresses	Accept 🗸			
8100		MAC Address			MAC Address	
D 1006602.1K	1	00:00:00:00:00		26	00:00:00:00:00:00	
11 Security	2	00:00:00:00:00		27	00:00:00:00:00:00	
O Protocol ON/OFF		00:00:00:00:00:00		28	00:00:00:00:00:00	
O IP Filtering	1	00:00:00:00:00		29	00:00:00:00:00:00	
HAC Address Hitering	5	00:00:00:00:00		20	00:00:00:00:00:00	
O SSL/TLS	0	00:00:00:00:00		31	00:00:00:00:00:00	
O IPSec	7	00:00:00:00:00:00		12	00:00:00:00:00:00	
Change Network		00:00:00:00:00		33	00:00:00:00:00:00	
Password	2	00:00:00:00:00		34	00:00:00:00:00:00	
B Naintenance	10	00:00:00:00:00:00		35	00:00:00:00:00:00	
Print Setup	11	00100:00100:00100		35	00:00:00:00:00:00	
PS Setup	12	00:00:00:00:00:00		37	00:00:00:00:00:00	
PCL Setup	13	00:00:00:00:00:00		38	00:00:00:00:00:00	

4 Under [STEP1], select [Enable] for [MAC Address Filtering].

Pro1050							
line information   Print Information	Printer B	Aces   Acesis Setus   Calib	ution I Links				
Admin Setup	HAC	Address Filtering			35		
H Network Setup	×1100	values war address	literics sati	ngs			
O General Network Setting	r		tnable 🛩				
O TCP/IP	MACA	ddress Filtering	CAUTIONII 3	ou set i	UAC Address Filtering to Enable.		
O NBT	_		with MAC A6		t in STEP2 and STEP3.		
9 Email		. Set Filtering MAC Ad	dress				
B SNHP	follow	ing MAC Addresses	Accept 🗸				
8 100		MAC Address			MAC Address	1	
D 1000002.1K	1	00:00:00:00:00		26	00:00:00:00:00:00	1	
11 Security	2	00:00.00:00:00:00		27	00:00:00:00:00:00	]	
O Protocol ON/OFF		00:00:00:00:00:00		26	00:00:00:00:00:00	1	
O IP Filtering		00:00:00:00:00:00		29	00:00:00:00:00:00	1	
BAC Address likeling	5	00:00:00:00:00:00		30	00:00:00:00:00:00	1	
O SSL/TLS	0	00:00:00:00:00:00		31	00100100100100100	1	
OtHec	7	00:00:00:00:00:00		12	00:00:00:00:00:00	1	
Change Network		00:00:00:00:00:00		33	00:00:00:00:00:00	1	
Password	1	00:00:00:00:00:00		34	00:00:00:00:00:00	1	
B Naintenance	10	00:00:00:00:00:00		35	00:00:00:00:00:00	1	
D Print Setup	11	00:00:00:00:00:00		35	00:00:00:00:00:00	1	
C PS Setup	12	00:00:00:00:00:00		37	00:00:00:00:00:00	1	
C PCL Setup	12	00:00:00:00:00:00		30	00:00:00:00:00:00	1	

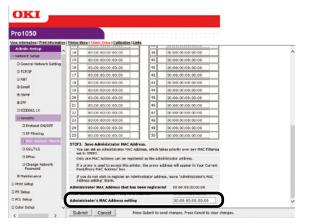
5 Under [STEP2], You can select [Accept] or [Deny] for communication from specific MAC addresses.

Pro1050						
invitionation   Drint Information			cation   Links			_
H Network Setup		Address Filtering	distant a state			
O General Network Setting	STOP	. Select MAL Address	Inable V	nga		
O TCP/IP O NBT	MACA	ddress Filtering	CAUTIONII 3	be able t	tAC Address Filtering to Enable, access the printer from devices it in STEP2 and STEP3.	
9 Email	STORT	Set Elberton MAC Ad	with MAC Ad	dresses p	et in STEP2 and STEP3.	
		unication from the		<b>`</b>		
B SNMP	follow	ing MAC Addresses	Derry			
8 000		the solicor			MAC Address	
O ECCE602.1X	14	00:00:00:00:00		26	00:00:00:00:00:00	
11 Security	2	00:00:00:00:00		27	00:00:00:00:00	
O Protocol ON/OFF	브	00:00:00:00:00:00		28	00:00:00:00:00:00	
O IP Filtering	4	00:00:00:00:00:00		29	00:00:00:00:00:00	
HAC Address Filtering	5	00:00:00:00:00:00	2	30	00:00:00:00:00:00	
OSSUTLS	0	00:00:00:00:00	>	31	00100100100100100	
O IPSec		00:00:00:00:00:00	2	32	00:00:00:00:00:00	
Change Network	8	00:00:00:00:00		33	00:00:00:00:00:00	
Password	9	00:00:00:00:00	2	34	00:00:00:00:00:00	
8 Naintenance	10	00:00:00:00:00	>	35	00:00:00:00:00:00	
D Print Setup	11	00:00:00:00:00		35	00:00:00:00:00:00	
C PS Setup	12	00:00:00:00:00:00		37	00:00:00:00:00:00	
C PCL Setup	13	00:00:00:00:00		38	00:00:00:00:00:00	
Color Setup				int:		



- Using MAC addresses, enter the range of hosts whose communications are allowed or rejected.
- For the MAC addresses, use single-byte numerals separated by periods (:).
- Regardless of what is specified in [STEP2], you can use [STEP3] to specify administrator addresses for which communication is enabled.

**6** Under [STEP3], specify the [Administrator's MAC Address setting].

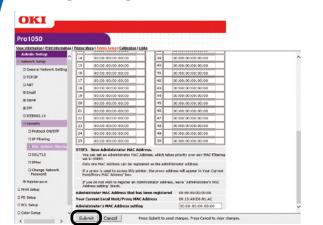


Even if the wrong settings are configured in [STEP2] due to administrator MAC address entry in [Administrator's MAC Address setting], the administrator can re-configure the setting from a host with the MAC address specified with [Administrator's MAC Address setting].

# Note

- If the printer is being accessed via a proxy, the intermediate device's address will be displayed as [Your Host MAC Address]. Consequently, the address shown by [Your Host MAC Address] may be different from your actual host address.
- If nothing is registered for the administrator MAC address, the setting in [STEP2] may make the printer completely inaccessible.
- If you do not want to register an administrator MAC address, specify 00:00:00:00:00:00 for [Administrator's MAC Address setting].

#### Click [Submit].

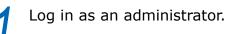


Settings are saved on the printer and the network function is restarted.

# Sending Error Notifications by Mail

The printer comes with a mail sending function (SMTP) built-in. It can be configured to send a mail message whenever an error occurs. You can select whether to send a periodic mail message about errors, or to send a mail message as soon as an error occurs.

# To configure settings for sending mail



Reference

• See "Logging in as an Administrator" (P.154).

2 Click: [Admin Setup] > [Network Setup].

Pro1050	rmation   Printer Mons   Admin Setup   Cal	Receiven 1 Links
	Protocol Options	
x Network Setup	TCP/1P	Enable
D Print Setup	NetBIOS over TCP	enacie V
O PS Setup	Hub Link	
D PCL Setup	Hub Link States	OK(200Base-TX Full)
Color Setup	Gigabit Network	Disable V
E Management	Hub Link Setting	Auto Nagotiato

Click: [Email] > [Send Settings].



# Under [STEP1], select [Enable] for [SMTP Send].

ter Mess   Admin Serve   Ca sail Send Bettings IP1. SHTP send setting I the protocol for the print ITP Send EP2. Send Address Setti the setty Server Address	pa for to send Creal.
UP1. SHTP send setting the protocol for the print ITP Send EP2. Send Address Sett	route v
t the protocol for the print ITP Send EP2. Send Address Self	route v
TP Send EP2. Send Address Sett	Fruidde 🐨
EF2. Send Address Sell	
EF2. Send Address Sell	
	is where the printer will send small.
ITP Server	Enter Ernal Server. (Max-04 characters)
nd Test	Test
the sender Address (this	a printaria Address).
inter Email Address	May be required to validate (mail transmission). May be required to validate (mail transmission).
EP3. More detail setting	
Set detail of the SMTP I	
	the sender Address (this inter Email Address (P3. More detail settin

- 5 Under [STEP2], specify the required addresses.
  - (1) For [SMTP Server], specify the mail server domain name or IP address.
  - (2) For [Printer Email Address], specify the mail address assigned to the printer.
  - Note
  - To configure SMTP server settings with a domain name, you need to configure DNS server settings with the [TCP/IP] setup.
  - The mail server needs to be configured to allow the printer to send mail. For information about mail server settings, consult with your network administrator.
  - Internet Explorer 7 configured with its initial default setup will not perform a send test. To perform a send test, you need to change the setup of Internet Explorer 7. Select [Tools] > [Security Level Customization], and then enable [Allow websites to prompt for information using scripted windows].

**6** To configure more advanced settings from this point, click [Set detail of the SMTP Protocol.] for [STEP3].

Pro1050					
Admin Setup		alibration 1 Links			
Network Setup	Email Send Settings STEP1, SHTP send setting				
D General Network Setting	Set the protocol for the print				
O TCP/IP		Set the protocol for the prefer to send times. If Disable is unlected, skip the rest of the STEPs.			
	SMTP Send	Enable V			
ONST	STEP2. Send Address Set	lines			
O Email		s where the printer will send Email.			
Send Settings					
O Alart Settings	SMTP Server	Enter Email Server. (Max.64 characters)			
B SNHP	Send Test	Test			
# [30	Set the sender Address (this	erintar's Address).			
D 1000002.1K					
B Security	Printer Email Address	May be required to validate liveal transmissions. (Max.64 (haracters)			
III Nainterance	and the second second				
Print Setup	Set detail of the SMTP	Protocol.			
DPS Setup	<ul> <li>Configure attached in</li> <li>Others</li> </ul>	Tormation			
PCL Setup					
Color Setup					
E Management					

Otherwise, jump to step 16 of this procedure.

**7** Click [Security Settings].

http://192.168.100.100/SM	P_security_top.htm		
SMTP Security Settin	gs		
Set security of the SMTP	Protocol. 🎯		
SMTP Port Number	25 (1-65535)		
SMTP-Auth	Disable 🗸		

- 8 For [SMTP Port Number], specify the mail server port number.
  - Select [Enable] for [SMTP-Auth].
    - (1) For [User ID], specify the user ID for connection to the mail server.
    - (2) For [Password], specify the password for connection to the mail server.

Click [OK].

Q

### Click [Configure attached information].

12 Select or enter the information you want to add to the end of the message text.

**12** Click [OK].

Click [Others].

**15** For [Reply-To Address], specify the return address for the mail sent from the printer. Normally, specify the mail address of the printer administrator.



16 Click [OK].
17 Click [Submit].
18 Settings are saved on the printer and the network function is restarted.

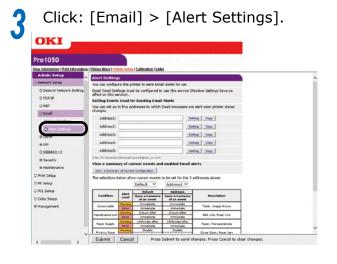
- Memo
- The authentication method is automatically selected from among authentication methods supported by the mail server.

### Sending Error Notifications by Periodic Mail

#### To send periodic notifications about problems

For periodic notification, check that Auto Power Off setting is either Auto Config or Disable.

<text><list-item><list-item><list-item><list-item>



# Enter the mail address of the malfunction notification recipient.

Pro1050							
Admin Setup	-	_	Calibration   Link	5			
il Network Setup	Alert Setting		rinter to send time	il sinche for une			Ŷ
O General Network Setting O TCP/3P	Email Send Set affect on this se	lings mu rvice).		o use this service (	Receive Settings h	ave no	
O NBT					re sent upon printe	er status	
O Email	changes.						
O Send Settings	Address1:	usoripo	dodeca	× 5	atting Copy		
Alart Settings	Address21				etting Casw		
B TANKE	Address3:			16	etting Copy		
# 120	Address4:	-		18	etten Cray		
O TELEBOO IX	Address5:				etting Copy		
B Security	(Max.78 character	(Cample	jamith@abc_co.com				
III Naintenance			errent events and et Configuration	d enabled Email	alerts		
O Print Setup	The selections l	elov all	ow custom events	to be set for the 5	addresses above.		
D PS Setup			Default 💙	Address1 🗸			
D PCL Setup D Color Setup	Condition	Alart	Ovefamili Upon accurrence of an event	Address3 Optim accurrence of an event	Description	-	
# Management	Consumable	Rawing	Sovrediate Sourcedure	Severalists Severalists	Toner, Image	Drume	
	Maintenance Unit	Thread	2-lours after	2-rours after	Bell Unit, Pue	er CHE	
	Paper Dupply	Brief Raming	Inmediate 15Hirutes after	Immediate 15Hinutes after	Paper, Transpo		
	when preserve	Benor	instedate	invediate Citable	Paper, Instage	and the second sec	

5 Click [Setting] of the mail address you want to specify.

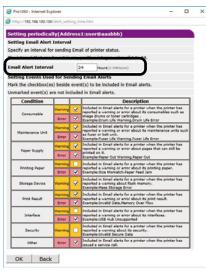
## Memo

 Malfunction notification condition settings can be copied to another addressee by clicking [Copy]. This is useful when sending malfunction notifications to multiple recipients with similar mail addresses.

6 Select the [Periodically] check box, and then click [To STEP2].

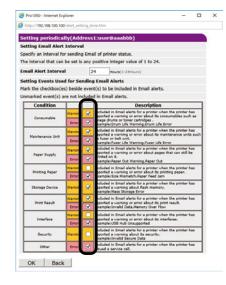


For [Email Alert Interval], specify the mail send interval.



- 🖉 Memo
- Mail is not sent if there are no reportable errors within the period.

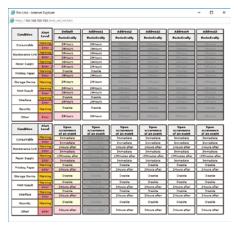
8 Under [Setting Events Used for Sending Email Alerts], select the check boxes of the error types for you to be notified of.

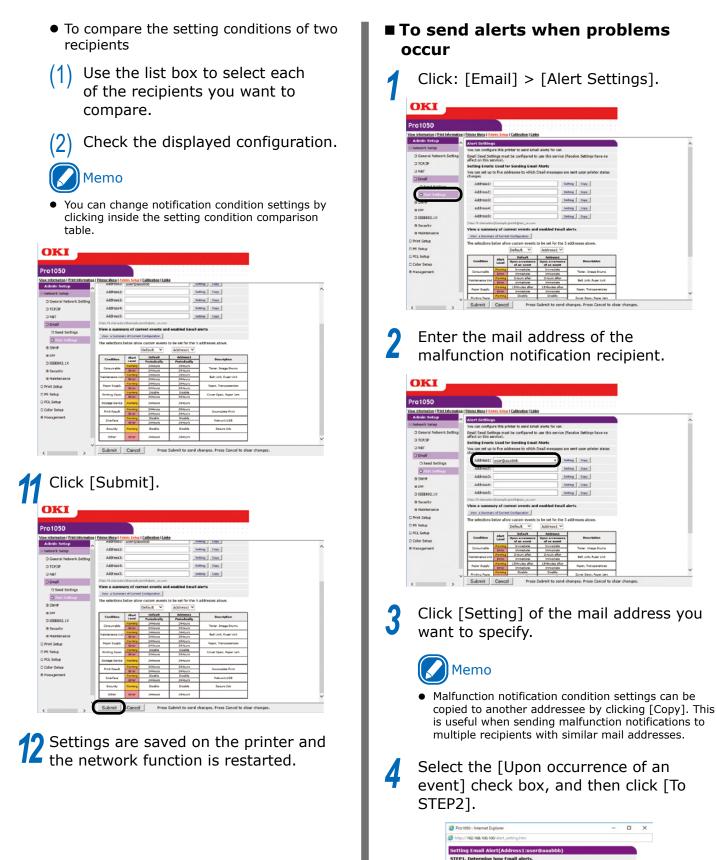


# G Click [OK].

Check the configuration of the malfunction notification conditions.

- To display as a list
- (1) Click [Show current settings table].
- (2) Check the configuration, and then close the window.





1	7	6	_
_ <b>Т</b>	/	σ	-

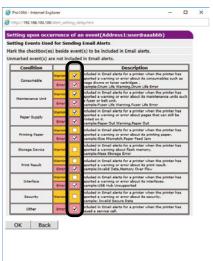
e one of the following ways and then press "To STEP2".

urrence of an event printer while the printer is operating.

Way of Email Alerting

To STEP2

5 Under [Setting Events Used for Sending Email Alerts], select the check boxes of the error types for you to be notified of.



6 Specify the delay after an error occurs until the message is sent, and then click [OK].

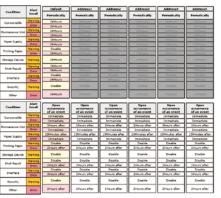
Pro10t0- Internet Explorer	-	۵	3
Hope 1985, 1986, 1086, 1086, 1086, and Linetal John			
Detail (Consumable Error)			
tou can configure parameters used for sending timal alerts.			
(the time entered in "Hours" field is any positive integer value of 0 to Settling time	o 48)		
Hours 0 Vientes     Hours of broat and br			
OK Close			

# 🖉 Memo

- Setting a delay time makes it possible to send notifications only of errors that are generated only over a long period of time.
- Setting "0 hours, 0 minutes" for the delay time, causes the message to be sent immediately after an error occurs.



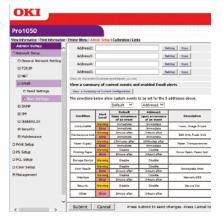
- 8 Check the configuration of the malfunction notification conditions.
  - To display as a list
  - (1) Click [Show current settings table].
  - 2) Check the configuration, and then close the window.



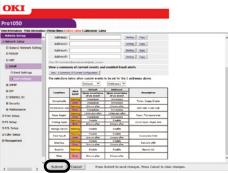
- To compare the setting conditions of two recipients
- Use the list box to select each of the recipients you want to compare.
- (2) Check the displayed configuration.

#### 🖉 Memo

• You can change notification condition settings by clicking inside the setting condition comparison table.



# **9** Click [Submit].

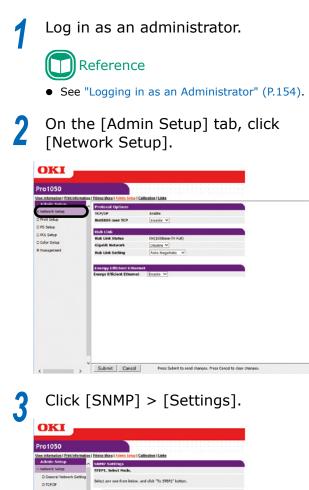


Settings are saved on the printer and the network function is restarted.

## **Using SNMPv3**

This printer implements an SNMPv3 compatible agent.

You can use an SNMPv3 compatible SNMP manager to encrypt printer administration with SNMP for greater security.



SNMP protocol is disab

Disable

To STEP2

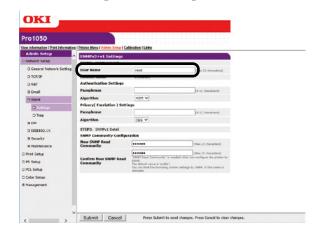
4 Select the check box of the SNMP version to be used in [STEP1], and then click [To STEP2].

_		. Setup   Calibration   Links
		sde.
Sele	t any one fro	m below, and click "To STEP2" button.
	Made	Description
0	SIMPPY1	IIR Get/Set use SNHPv1.
0	SIMPPy3	4E8 Get/Set use SNHPv3
٠	SNMPy3+y3	IEB Get/Set use SNMPv3 and NIB Get use SNMPv1.
0	Disable	INMP protocol is disabled. It becomes impossible to do the communication that uses SNMP.
	To STEP2	1
	SNP	Shirts Settings STEP1. Select M Select any one fro Node StorPy1 StorPy1 StorPy3 StorPy3+v3



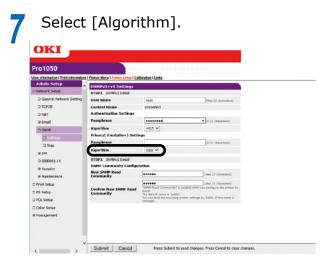
• If [SNMPv3] is selected, you will not be able to view or configure settings with SNMPv1. If [SNMPv3+v1] is selected, you will be able to view settings with either SNMPv1 or SNMPv3, but you can configure settings using SNMPv3 only.

# 5 In [STEP2], enter an SNMPv3 user name for [User Name].

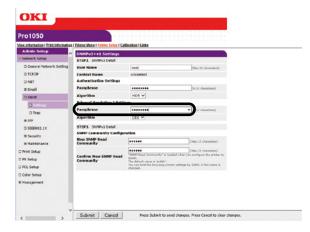


6 Enter the passphrase for verification in [Passphrase] for [Authentication Settings].

a dealer distant	e   Printer Mone   Admin Setup   Cal	Ibration   Links		
I Network Setup	and a seconda			
D General Network Setting	STEP2. SNMPv3 Detail			
	User Name	1001	(Max.32 charactura)	
O TCP/3P	Context Name	v3coelext		
O NBT	C	-		
9 Email	Passphrase		Ditz (haracters)	
8 SNHP	Asportan	PIDS V		
Settings	Privecy( Encription ) Settin	ngn		
OTrep	Passplarase		(R-32 characters)	
# 139	Algorithm	CES ¥		
D 1000002.1X	STEP3. SNMPv1 Detail			
B Security	SNMP Community Configu	ration		
III Naintenance	New SNHP Read Community		(Hars 13 (Naracters)	
0 Print Setup 0 PS Setup 0 PCL Setup	Confirm New SNMP Read Community	SHOP, The default value is "public".	(Hass,15 characters) anded when you cardigues the printer by inter settings by SNNG, if this name is	
Color Setup				
# Management				



8 Enter the passphrase for encryption in [Passphrase] for [Privacy (Encription) Settings].



### Memo

• You can select [DES] only for the encryption algorithm.

#### Click [Submit].

0

Pro1050						
Admin Setup	SNHPv3+v1 Settings	Ibration   Links				
Network Setup	STEP2. SNMPV3 Detail					
O General Network Setting	User Name	1000	(Max.22 characture)			
O TCP/IP	Context Name	v3context				
O NBT	Authentication Settings					
9 Email	Passphrase		(3-32 (haratten)			
8 SNHP	Algorithm	HD5 ¥				
O Settings	Privocy( Encription ) Setti	Privacy( Encription ) Settings				
OTrep	Passphrase		<ul> <li>B-32 characters)</li> </ul>			
# 130	Algorithm	Des 🛩				
0.0000002.1X	STEP3. SNIPv3 Detail SNIP Community Configuration					
B Security						
Il Naintenance	New SNMP Read Community		(Has, 13 characters)			
Print Setup		*****	(Hax, 15 characters)			
PS Setup	Confirm New SNMP Read Community	"SHAP Read Community" is a SNUD. The default value is "public".	sanded when you anyligues the printer by			
PCL Setup		The default value is 'public'. You can limit the browning p chanced.	inter settings by SNNP, if this rame is			
Color Setup						
Management						
10.40 P.050022						

10 Settings are saved on the printer and the network function is restarted.



• For the context key of the SNMP manager to be used, specify "v3context".

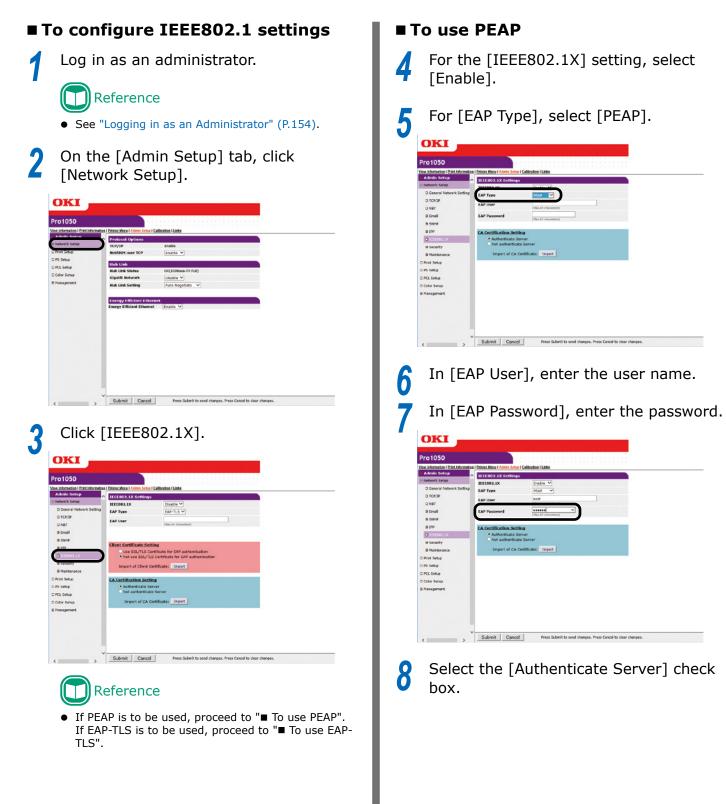
## Using IEEE802.1X

Authentication is in accordance with IEEE802.1X.

#### ■ IEEE802.1X Setup Flow

To configure IEEE802.1X settings on the printer, first connect the printer and computer via a normal hub for setup. After completing the IEEE802.1X setting configuration procedure, connect the printer to the authentication switch.

- Connect the printer to a computer.
- On the computer, specify an IP address for setting up.
- 3 On the printer, specify an IP address for setting up.
- **4** On the printer, configure IEEE802.1 settings.
- 5 Connect the printer to the authentication switch.



**9** Click [Import of CA Certificate].

## Memo

• If the [Not authenticate Server] check box is selected, import of a CA certificate is not required. If the [Not authenticate Server] check box is selected, there is no confirmation to determine if the connection is to a properly authenticated server.

	Printer Money   Admin Selus	Calibration   Links	
Idmin Setup	IECE802.1X Setting	5	
when the second	ICCC002.1X	Enable M	
O General Network Setting	EAP Type	PEAP Y	
O TCP/1P O NBT	EAP User	USOF (Mac.64 (haracters)	
9 Email	EAP Password	(Max.64 charactars)	
B SNMP		(menter consellant)	
B DO C stratobilik B Naintenance Vint Setup S sietup CL Setup Janagement	CA Certification Set A Athenicate S Net purport of CA (	erver	

This displays the "Import of CA Certificate" screen.

10 Enter the file name of the CA certificate, and then click [OK].



- The imported CA certificate is a certificate of the server certificate issuing authority of the RADIUS server.
- Supported import file formats are PEM, DER, and PKCS#7.



The CA certificate is imported by the printer.

Click [Submit].

Settings are saved on the printer and the network function is restarted.

When the standby screen appears on the control panel, turn off the printer.

# Reference

- For information about how to turn off the printer, refer to the "Setup Guide".
- Advance to "To connect the printer to an authentication switch" (P.183).

#### ■ To use EAP-TLS

6

For the [IEEE802.1X] setting, select [Enable].

OKI	
Pro1050	
	a   Exinter Mona   Admin. Setua   Calibration   Links
Admin Setup	IEEE002.1X Settings
O General Network Setting	And a state of the
O TCP/IP	LAP Type
O NET	EAP User (Max.44 characters)
9 Email	
8 SNHP	
8 100	Client Certificate Setting
■ 1001807.1×	<ul> <li>Use SSL/TLS Certificate for EAP authentication</li> <li>Net use SSL/TLS Certificate for EAP authentication</li> </ul>
# Security	Import of Client Certificate: Import
B Maintenance	
O Print Setup	CA Certification Setting
D PS Setup	Authenticate Server     Not authenticate Server
O PCL Setup	
Color Setup	Import of CA Certificate: Import
8 Management	

In [EAP User], enter the user name.

Select the [Not use SSL/TLS Certificate for EAP authentication] check box.

8 Click [Import of Client Certificate].

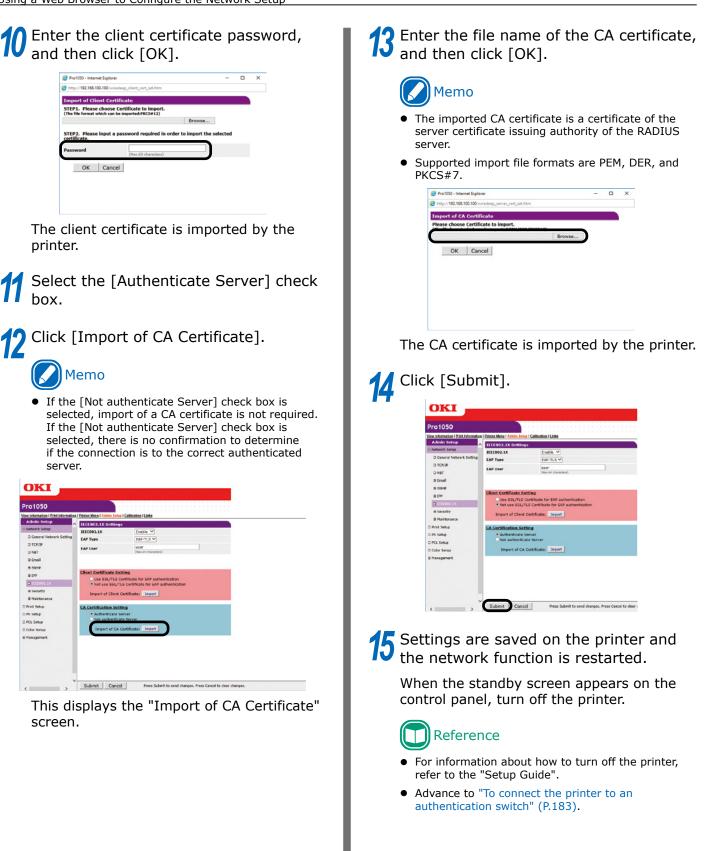


This displays the "Import of Client Certificate" screen.

9 Enter the file name of the client certificate.

## Memo

The importable certificate file format is PKCS#12.



#### To connect the printer to an authentication switch



- Confirm that the printer is turned off.
  - Plug a LAN cable into the printer's LAN (network) interface connector.
- Plug the LAN cable into the authentication switch's authentication port.
- 3 Turn on the power supply of the printer.
  4 Confirm that the standby screen is displayed on the control panel.
- 5 Configure settings in accordance with the operating environment, such as the printer's IP address, etc.

# **Configuration Tool**

Configuration Tool is a utility for modifying and managing OKI device settings.

Configuration Tool has the functions below for simple configuration and management of multiple OKI devices.

- Device information display
- ICC profile registration and management
- Form data registration and delete
- Saved job management
- Partition formatting
- Hard disk partition re-sizing
- Flash memory initialization
- Printer network setting configuration

## **Operating Environment**

Computer running the Japanese version of Windows 10/Windows 8.1/Windows 8/Windows 7/Windows Server 2016/Windows Server 2012 R2/Windows Server 2012/Windows Server 2008 R2/Windows Server 2008



• PC administrator privileges are required for the setup.

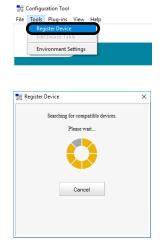
## **Registering a Device**

The first time you use Configuration Tool or the first time you newly introduce an OKI device, the OKI device will be registered to Configuration Tool.

Perfo	rr
start	u
LOL:	

n the following operation to p Configuration Tool: [Start] > [Okidata] > [Configuration Tool].

2 On the [Tools] menu, select [Register Device] to search for registerable OKI devices.





• To modify the scope of the search, select [Environment Settings] on the [Tools] menu, and then enter the scope. After entering the scope, click [OK].

Environment Settings	2
Device Search Parameters S	ettings
IP Broadcast Settings	
	Add
	Delete
Search local subnet	
Local Settings	
Local Settings	
Local Settings Search USB Search LPT	
Local Settings Search USB Search LPT	ically
Local Settings  Cocal Search USB  Search LPT  Others	ically Timeout Settings
Local Settings   Search USB  Search LPT  Others	-

3 Select the check box next to the OKI devices you want to set up or manage, and then click [Register].

	ing compatible device Device Name	Port Name	
<	Pro1050	USB001	
			~
			~
✓ S	elect all		~

4 Click the close button (⋈) in the upper right corner of the window or click [Cancel] to close the [Register Device] screen.

## **Device Info Tab**

You can use this tab to view the status of and details about OKI devices.

This function is provided with Configuration Tool as standard.

In the "Registered Device Table", click the OKI device whose information you want to view.

This	displays	the	status	of	the	OKI	device.
------	----------	-----	--------	----	-----	-----	---------

OKI				
UIII			C	nfiguration Te
			60	ingulation is
stered Desice Table	Pro1050(USB001)	<u> </u>		
39000	Device lafe			
	Device Status		Supplies Status	
			Inner	
	Connecting the USB inter-	acn.	Black Print Cartility	90%
			Cyse Prot Cartridge James a Print	100%
			Cattidas	100%
	Update Dr	rvice Information	Tution Print Cartridge	100%
			White Print Cartindge	50%
	Keep information upda	100	Othern	
	View Information		Ref. Inc.	68%
	Registered device details	In case	From	58%
	Registrand Device Name	Paul 250	Counter information	_
	Device Name	Pso8030	Print Country	
	Port Natur	U5800	3dP Ten(3/anal)	44405
	MAC Addense	002536768 159	and antificiation)	jener.
	System			
	Serial No.	A1790A40008		
	Asset No.			
	CU Vesion	99.24		



• To update information, click [Update Device Information].



• The device status is displayed when the OKI device is connected to the network.

## **Network Setting Plug-in**

This plug-in makes it possible to configure network settings with Configuration Tool. Before configuring settings, install the Network Setting plug-in.

#### Icon Types

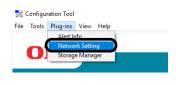
The meaning of each icon is described below.

Icon	Description
2	Search for the printer again.
×	Change search criteria.
10 A	Change the printer IP address.
Ċ	Re-start the printer.
eee PW	Change the network password.
	Display the specified printer web page.

#### To search for the printer on a network

You can use the procedure below to search for the printer.

1 On the [Plug-ins] menu, select [Network Setting].



2

Select [Discover Devices].

 Network Setting(Configures a device for a network.)

 Configures a device for a network.

 Discover Devices

 Discover Settings

 Changes the device discovery criteria of

This will display the search results.

#### ■ To specify search criteria

1 On the [Plug-ins] menu, select [Network Setting].



- Select [Environment Settings].
  Network Setting(Configures a device for a network.)
  Configures a device for a network.
  Discover Devices
  Discovers network devices.
  Environment Settings
  Changes the device discovery criteria or
- 3 Specify search criteria as required, and then click [OK].

Add
Delete
-300 Sec): 30

#### ■ To change the printer IP address

You can use the procedure below to change the printer IP address.

In the printer list, select a printer.

Click 🛼.

3

5

6

Modify settings as required.

Click [Setup].

Enter the network password, and then click [OK].

The initial factory default password is the last six numerical digits of the MAC address.

Click [OK] to restart the printer.

## Storage Manager Plug-in

The Storage Manager plug-in can be used to manage jobs stored on the printer, to save forms and fonts used for printing, and ICC profiles.



• The job management function does not support handling of encrypted secure jobs.

#### Icon Types

The meaning of each icon is described below.

Icon	Description
2	Create a new project.
	Open a project.
	Save a project.
6	Name a project and save it.
۲	Add a file to a project.
<b>*</b> }	Delete a file from a project.
	Display the PCL form file filtering screen.
<b>F</b>	Create a download file.
Ç.	Send a download file.
2	Send a project.
2	Send a file.
<b>1</b> 2	Display the job management screen.
R	Display the management function screen.

#### Registering an ICC Profile

Printer profiles can be registered and edited as required. The information below explains some of the profile functions.

An ICC profile can be used only by a printer equipped with a hard disk.



- To use profile registration and editing, install the Storage Manager plug-in.
  - On the [Plug-ins] menu, select [Storage Manager].

<b>5</b> 8 C	onfigu	ration Tool			
File	Tools	Plug-ins	View	Help	
		Alert Ir Netwo	ıfo rk Settir	ng	
_	U	Storag	e Mana	ger	

- Click [<sup>®</sup>] to create a new project.
- Click [<sup>1</sup>]. On the [Open File] dialog box that appears, change [File Type] to "ICC Profile (\*.ICC, \*.ICM)".
- 4 Select the file you want to register, and then click [Open].
- 5 For the ICC profile added to the project, click [Component] to display the [Edit File] dialog box.
- 6 Select the number where you want to register the profile.

Numbers that are already being used for another project are highlighted in yellow, indicating that they cannot be selected.

- Enter comment text into the [Comments] box, if you want.
  - Click [OK] to apply the changes.
- 9 At the bottom of the screen, select the printer on the device list.
  - Click [1] to send the project associated with the added ICC profile to the printer.
  - If a "Finished" message appears, read it, and then click [OK].

## Registering a Form (Form Overlay)

You can register logos and other forms on the printer and overlay them for printing. Here, we will show how to register a form.

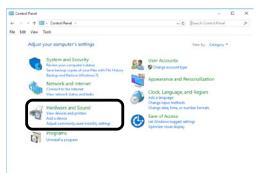
#### Creating a Form



Click [Start] and select [Control Panel] in [Windows System].



Click [View devices and printers].





- The printer driver has its own function for registering forms. Normally, use the form registration function on the printer driver.
- Form registration when the length of 1 page of labels, or of paper, is shorter than 4 inches, is not supported by this procedure. Use the form registration function on the printer driver.
- Right-click the [Pro1050 PCL6] icon, and then select [Printer Properties].
- Select the [Ports] tab, select check [FILE:] in [Printer Port], and then click [OK].
- Create the form you want to register on the printer.
- On the application [File] menu, select D [Print].
  - Print.

8

Enter a name for the file to be saved.

On the [Port] tab, return the [Printer port] setting, which you changed in step 3 of this procedure, to its original setting.

- Using Configuration Tool to Register a Form on the Printer
- On the [Plug-ins] menu, select [Storage Manager].
- 2 Click [1].
- 3 Click [<sup>1</sup>], and then select the created form file.

This adds the form to the project.

- Click the form file. 4
- 5 Enter the [ID], and then click [OK].

Note

Do not change the [Volume] and [Path Name] settings.

In the bottom pane of the Storage b Manager plug-in screen, select the printer.

Click [ 🐴 ]. Click [OK].

#### To check the hard disk and flash memory free space

You can use the procedure below to check hard disk and flash memory free space.

- 1 In the device selection area at the bottom of the Storage Manager plug-in screen, click the printer name to display the resource screen of the selected printer.
- 2 The screen shows storage, partitions, directories, files, and other information by communicating with the printer.

#### To delete unneeded jobs from the hard disk

You can use the procedure below to delete print jobs in a hard disk [Shared] partition.



• Even after print data is secure printed or saved, its job remains in the [Common] partition. Jobs use up hard disk space and can cause it to run low if jobs are not deleted.



- The Storage Manager plug-in cannot delete encrypted secure print jobs.
  - Click [📴].
- 2 To view the print jobs of a particular user, enter the applicable password, and then click [Job password operations]. To view all print jobs, enter an administrator password, and then click [Administrator password operations].

The initial default administrator password is 999999.

- 3 Select the job you want to delete, and then click [<sup>\*</sup>].
- Click [OK].

# OKI LPR Utility

## **Operating Environment**

Computer running the Japanese version of Windows 10/Windows 8.1/Windows 8/Windows 7/Windows Server 2016/Windows Server 2012 R2/Windows Server 2012/Windows Server 2008 R2/Windows Server 2008

Computer running TCP/IP

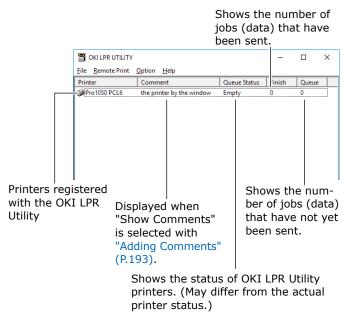


- PC administrator privileges are required for the setup.
- Use of printing method function is not supported.

## Starting Up

Perform the following operation to start up the OKI LPR Utility: [Start] > [Okidata] > [OKI LPR Utility].

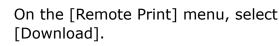
This will display a screen like the one below.



# Downloading a File to the Printer

You can use the procedure to download a file to the printer.

Select this printer.



_	LPR UTILITY		_		>
ile Re	emote Print Option Help				
Prin	Download	Queue Status	Finish	Queue	
P	JOD Status	Empty	0	0	
	Printer Status				
	Pause				
	Add Printer				
	Delete Printer				
	Confirm Connections				
	Web Setting				
	SNMP community name changes				

Select the file to be downloaded, and then click [Open].

Send Files				>
	~ ð	Search Documents		p
Organize - New folder		811	• 🔳	0
Couchasces	Dute modified No items match your search.	type 5	ize	
🥩 Network 🗸 🗸				
File pame:		Ele(".os".om)		~

This starts file downloading.

#### Viewing, Deleting, and Transferring Jobs

You can use the procedure below to display and delete jobs.

You can also transfer print jobs to another printer when printing is not possible on this printer because it busy, offline, out of paper, etc.

## Note

- A job cannot be transferred to another manufacturer's printer.
- Transfer jobs to a printer that is the same model as the source printer.

Select this printer.

On the [Remote Print] menu, select [Job Status].

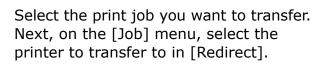
1	OKI LPR UTILITY		-		×
File	Remote Print Option Help				
Print	Download	Queue Status	Finish	Queue	
	Job Status	Empty	0	0	
	Printer Status	[			
	Pause				
	Add Printer				
	Delete Printer				
	Confirm Connections				
	Web Setting				
	SNMP community name changes				

This displays the jobs.

3 Select the print job you want to delete. Next, on the [Job] menu, select [Delete Job].

🞬 Pro1050 P	PCL6	-	
Printer Job	Help		
Docume	Redirect	Stat Date/Time	Size
Test Prog	Delete Job	6/8/2018 3:40:30 PM	675573
Status Ready To H Power Save		Message	

This deletes the job.



🖀 Pro10	050 PCL6		- 0	×
Printer	Job Help			
Docume	Redirect	> stat Date/Time		Size
Test Pag	Delete Job	6/8/2018 3:40:30 PM	6	375573
Status		Message		
Ready T	'o Print			

This transfers the job to the destination printer.



Λ

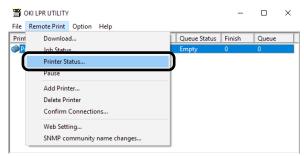
• The printer being transferred to must be set up beforehand using the OKI LPR Utility.

#### Checking the Printer Status

Select this printer.

You can use the procedure below to display the status of the printer.

On the [Remote Print] menu, select [Printer Status].



This displays the printer status screen.

Pro1050 PCL6	×
Ready To Print Power Save	
OK	

#### Memo

• You can also check the printer status using "Status" on the job display dialog box.

## Adding a Printer

You can use the procedure below to change the print destination port to an OKI LPR port.



• You cannot configure this setting for a printer that is already registered with the OKI LPR Utility. To change the port in this case, select [Reset Printer].

1 On the [Remote Print] menu, select [Add Printer].



2 Use [Printer Name] to select the name of the printer to be added, use [IP Address] to enter the printer's IP address, and then click [OK].

Add Printer		×
Printer Name:	Pro1050 PCL6	•
IP Address:	192.168.100.200	(Discover)
Comment:		
		D <u>e</u> tails
	OK Cancel	<u>H</u> elp

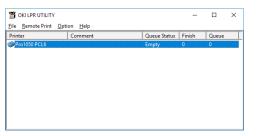
## Note

• [Printer Name] is displayed only if a printer driver has been added to the [Devices and Printers] folder. It does not appear when the printer is configured as a network printer.



• You can search for OKI printers on the network by clicking [Discover].

The printer is added to the main window.

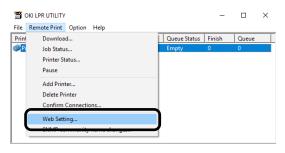


### Starting Up the Web Browser

Select this printer.

The OKI LPR Utility starts up the web browser for configuration of printer network settings and menu settings.

On the [Remote Print] menu, select [Web Setting].



## Memo

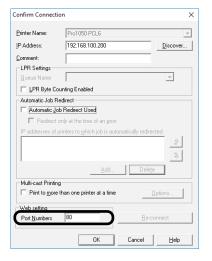
- If the web port number has changed, use the procedure below to change the OKI LPR Utility port number setting.
- (1) Select this printer.
- (2) On the [Remote Print] menu, select [Confirm Connections].



(3) Click [Details].

Confirm Connect	tion	×
Printer Name:	Pro1050 PCL6	Ŧ
IP Address:	192.168.100.200	Discover
Comment:		
	<u>R</u> e-connect	D <u>e</u> tails
	OK Cancel	<u>H</u> elp

(4) For [Port Numbers], enter the web port number.



(5) Click [OK].

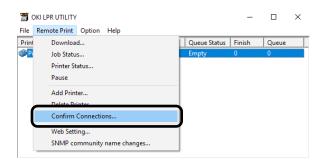
## **Adding Comments**

You can use the procedure below to add comments to the printers added to the OKI LPR Utility.



- This can be used to enter information about the printer location, optional devices, etc.
  - Select a printer.

#### On the [Remote Print] menu, select [Confirm Connections].



Enter the comment text into [Comment], and then click [OK].



3

4

On the [Option] menu, select [Show comments].

					_
Show comments	Que	ue			_
Setup	0				
SNMP Setup	I 1				
			-		>
ption Help					
Comment		Queue Status	Finish	Queue	
the printer by the window		Empty	0	0	
	SMMP Setup	SNMP Setup	Setup SNMP Setup prion Help Comment Queue Status	Setup SNIMP Setup prion Help Comment Queue Status Finish	Setup SNMP Setup prion Help Comment Queue Status Finish Queue

#### Automatic IP Address Setting

You can have the server automatically search for and reset IP addresses that were changed when a printer's power was turned on while it is connected to the DHCP server.



• The search is performed in accordance with the search scope of the OKI LPR Utility.

# 🚺 Memo

• Enabled in the initial settings of the device.



2 Select the [Auto Reconnect] check box.



Click [OK].

## **Uninstalling the Utility**

Exit Queue Status Finish Queue	File Remote Pri	ITY int Option Help			_	
			s Finish	Queue		
Empty 0 0	<b>State Contractor</b>	Empty	0	0		

2 Select [Start] > [Okidata] > [Uninstall OKI LPR Utility] to start the Uninstall OKI LPR Utility.

On the "User Account Control" dialog box that appears, click [Yes].

#### Click [Yes].

OKI LPR Utility - InstallShield Wizard	>
Do you want to completely remove the selected application and all of its features?	
<u>Y</u> es <u>N</u> o	

This starts the delete operation.

## Network Extension

Network Extension makes it easy to check printer setup items from a printer driver.



#### • Network Extension is installed along with the printer drivers.

#### **Operating Environment**

Computer running the Japanese version of Windows 10/Windows 8.1/Windows 8/Windows 7/Windows Server 2016/Windows Server 2012 R2/Windows 2012/Windows Server 2008 R2/ Windows Server 2008

Computer running TCP/IP



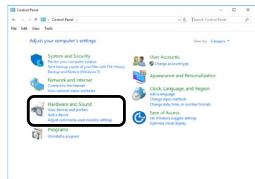
- To link operation with a printer driver, you need to install the printer driver.
- Network Extension is installed automatically when a printer driver is installed on a TCP/IP network connection.
- Operation is supported only for the printer driver connection destinations shown below.
  - OKI LPR Port
  - Standard TCP/IP port
- PC administrator privileges are required for the setup.

#### **Checking the Printer Settings**

You can use the procedure below to check connected printer configuration, etc.

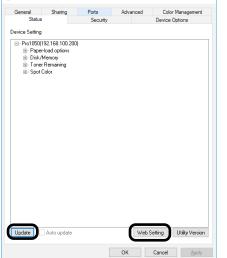


- Even if Network Extension is installed, the [Options] tab will not be displayed if the operating environment is incompatible.
  - Click [Start] and select [Control Panel] in [Windows System].
- Click [View devices and printers].



- Right-click the [Pro1050 PCL6] icon, and then select [Printer Properties].
- Click the [Status] tab.





The printer configuration is displayed under "Device Setting".



• Clicking [Web Setting] automatically starts up the web browser, which will display the printer configuration. For details, see "Using a Web Browser to Configure the Network Setup" (P.153).

#### Uninstalling Network Extension

- 1 Click [Start], and then select [Control panel] in [Windows System].
  - Click [Uninstall a program].
  - Select [OKI Network Extension], and then click [Uninstall].
- 4

2

3

Follow the instructions on the screen to uninstall.

# Color Swatch Utility

## **Operating Environment**

The Color Swatch Utility prints RGB color samples for the printer. Printed color samples can be used to determine the RGB value settings that need to be specified with an application in order to obtain desired printed colors.

## Note

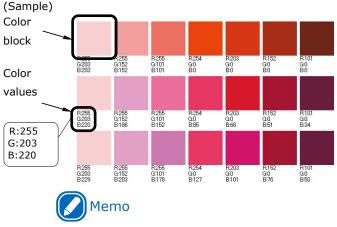
- The Color Swatch Utility is installed along with the printer drivers.
- The results of the color test print are printed according to the paper settings in the printer driver, so use paper that allows for the largest printout.

## Printing RGB Color Samples



- Prints color samples.
- Perform the following operation to start up the Color Swatch Utility: [Start] > [Oki Data] > [Color Swatch Utility].
- 2) Click [Print].
- 3) Select this printer.
- 4 Click [OK] or [Print].

This prints a three-page color sample.



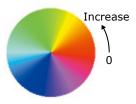
 The RGB values below each color block show the component quantity (0 to 255) of R (red), G (green), B (blue) in the block. (5) Find the color in the color sample that you want to print, and make a note of its RGB values.

#### Memo

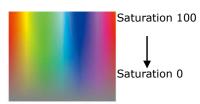
- If you cannot find the color you want in the color sample, perform the procedure below to customize the color sample manually.
- (6) Click [Switch] to switch to the custom color sample.
- (7) Click [Detail] to display [Edit Custom Color Swatch] dialog box.

Edit Custom	n Color Swatch		×
<u>H</u> ue:	0		
Saturation:	100		
Lightness:	50	•	
	<u>D</u> efault	Close	

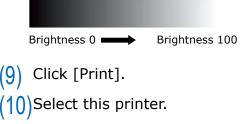
- (8) Adjust the positions of the three bars until the desired color is shown on the monitor screen, and then click [Close].
  - Hue: Changes the hue. 0 displays red, while a higher value moves on the color wheel towards green.



• Saturation: Changes the vividness. A higher value increases vividness, while a lower value makes the color more cloudy (gray).



• Brightness: Changes the density. Maximum (100%) brightness is white, while minimum (0%) brightness is black.



- (11) Click [OK] or [Print]. This causes a single page to be printed by the printer.
- (12) If you cannot find the color you want in the color sample, repeat steps (6) through (11) of this procedure.
- 2 Use the application to print the desired color.
  - (1) Open the file to be printed.
  - (2) Use the application to select text or graphics, and change the RGB values to those of the color sample block that is the color you want.
    - Note
    - For information about how to specify colors with an application, see the application's user documentation.
  - (3) Print.
- Note
- When printing a desired color from an application, use the same printer driver settings as those that were used when printing the color sample.

## Status Monitor

Status Monitor is a utility for showing the status of the printer on a computer.

Status Monitor has the following features.

- Indicates the status of the equipment.
- Acquires information in the reports below as CSV files.
  - Configuration
  - Error Log
  - Color Profile List
  - User Media List

## **Operating Environment**

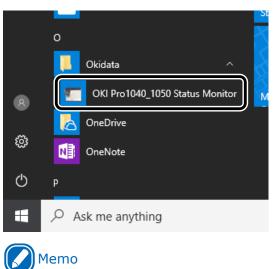
Computer running the Japanese version of Windows 10/Windows 8.1/Windows 8/Windows 7/Windows Server 2016/Windows Server 2012 R2/Windows Server 2012/Windows Server 2008 R2/Windows Server 2008



- PC administrator privileges are required to do the setup.
- The printer must be connected to the computer, the printer driver must be installed, and [Ports] in the printer driver must be set to USB or standard TCP/IP port beforehand.

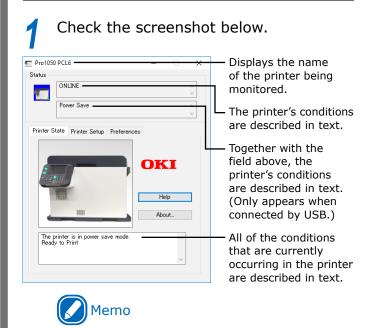
## **Starting Up**

Select [Start] > [Okidata] > [OKI Pro1040\_1050 Status Monitor] to start up Status Monitor.



• Another way to start the utility is to do a printing operation, which causes an automatic startup.

# Displaying the Printer Status



• The display may differ depending on the display mode.

# Changing the Display Mode

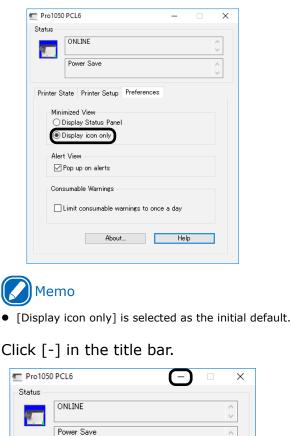
Status Monitor has multiple display modes that you can change.

#### Icon display

1 Click the [Preferences] tab in the advanced display screen.



2 Select [Display icon only] under [Minimized View].



3

The icon appears on the taskbar.



# Memo

Λ

 Place the mouse cursor over the icon to display the status of the printer in a tooltip.



#### Advanced display

Double-click the Status Monitor icon on the taskbar.

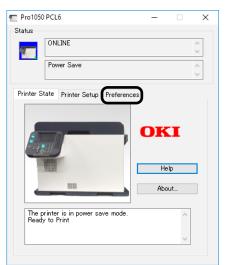


2 The screen switches to the advanced display screen.



#### Status panel display

1 Click the [Preferences] tab in the advanced display screen.



2 Select [Display Status Panel] under [Minimized View].

	ONLINE				^
	Power Sa	ve			 ~
Printer S	tate Printe	er Setun F	reference	es	 ~
	mized View				
	Display Sta				
0	Display icor	n only			
Aler	t View —				
	t View Popupona	alerts			
Con	Pop up on a	rnings	iines to o	nce a day	

Click [-] in the title bar.



The screen switches to the status panel display.

👥 Pro1050	PCL6	—	Х
	ONLINE		$\hat{}$
	Power Save		 ^
			$\sim$

## **Switching Printers**

# Click the [Printer Setup] tab in the advanced display screen.



## 2 Click [Select Printer].

Status		
	ONLINE	$\hat{}$
	Power Save	$\hat{}$
Printer S	State Printer Setup Preferences	
Selec	t Printer	
	et Printer ges the printer to connect to.	
Chan	ges the printer to connect to.	
Chan Cutpu Outpu	ges the printer to connect to. Select Printer	
Chan Cutpu Outpu	ges the printer to connect to. Select Printer ut report data	
Chan Cutpu Outpu	ees the printer to connect to. Select Printer ut report data tailed settings	
Chan Cutpu Outpu	ees the printer to connect to. Select Printer ut report data tailed settings	

3

After selecting the printer you want to change to, click [OK].

Select Printer		
Pro1050 PCL6	✓ OK Cancel	2
Memo		

 You can switch to printers that are compatible with the operating environments registered in [Devices and Printers].

### Acquiring Information in **Reports as CSV Files**

Click the [Printer Setup] tab in the 1 advanced display screen.



Select the report data that you want to 2 save as a CSV file.

Pro10	50 PCL	6				-		×
Status –								
	ON	LINE						$\hat{\mathbf{v}}$
	Pov	ver Save						$\hat{\downarrow}$
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-Sele								
		ter						
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Char		e printe	r to cor t Printe					
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	nges th ut rep stailed	e printe Select ort data	t Printe		~			
	nges th ut rep stailed ror log olor Pro	e printe Select <u>ort data</u> settings settings	t Printe					
	nges th ut rep stailed ror log olor Pro	settings	t Printe					
	nges th ut rep stailed ror log olor Pro	e printe Select <u>ort data</u> settings settings	t Printe					
	nges th ut rep stailed ror log olor Pro	e printe Select <u>ort data</u> settings settings	t Printe	r		Hel	0	

3 Click [Open Configuration], specify a file name and a location to save the file, and then click [Save].

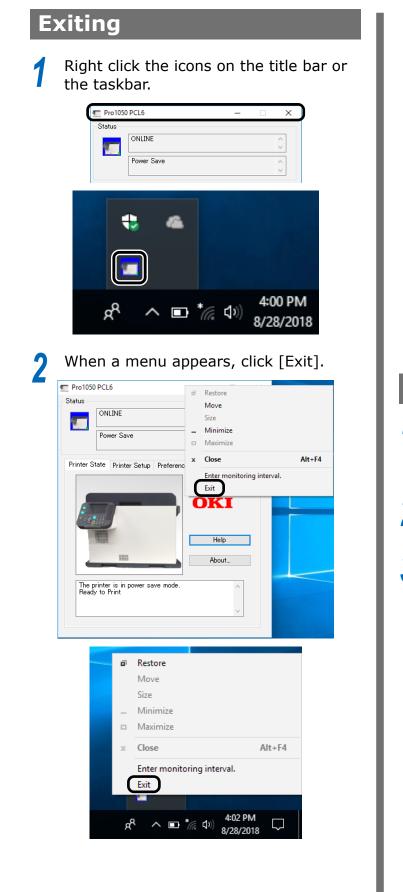
Pro105	PCL6		-		$\times$
Status					
	ONLINE Power Save				$\hat{\mathbf{v}}$
	Power Save				0
Printer S	itate Printer Setup	Preferences			
Selec	t Printer				
	ges the printer to con	nect to.			
	Select Printe	r			
	001001111110				
· · · ·	t report data				
Det	ailed settings	~			
	Open Configura	tion			
	About		Hel	0	
This PC	v <				
File name: D	etailed settings .csv				
Save as type: *.4	3V		_		



4

The CSV file is saved in the specified location.

🗟 i 🛃 📒 🖬 Do	tuments				-		×
File Home	Share View						~
← → · ↑ 1	> This PC > Documents		Ŷ	Search Do	ocuments		,p
	Name	^	Date modified	Type	Size		1
Quick access     Desktop	Detailed setting	ngs .csv	8/28/2018 3:38 PM	CSV File		9 KB	)
- Downloads	*						
Documents	1						
Pictures	*						





 If Status Monitor is running on a USB connection and another OKI utility is using the same USB connection, the following message appears and Status Monitor closes itself.

etup		
terminated for	nitor that is monitoring the following printer has been USB communication with this software. he Status Monitor and use it for printing again after tware.	
Pro 1050 PCL6		

Status Monitor closes itself to avoid generating USB communications simultaneously to the same printer, but this is not a malfunction.

## **Uninstalling the Utility**

- Click [Start] > [Windows System] > [Control Panel] > [Programs and Features].
- 2 Select [OKI Pro1040\_1050 Status Monitor], and then click [Uninstall].
- Follow the instructions on the screen to uninstall.

Status Monitor



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