



Wide Format Printer
Teriostar LP-2060 Series

Multifunction Model

LP-2060-MF

Printer Model

LP-2060

User's Manual for Basic Printer Operation

U10000138300 December, 2017 Rev. 2



OKI Data Infotech Corporation

Chapter

1

Before Use

Chapter

2

Basic Operations

Chapter

3

Menu Functions

Chapter

4

Print Job Box
Function

Chapter

5

Authentication
Function

Chapter

6

Troubleshooting

Appendix

Copyright© 2016 OKI Data Infotech Corporation.

All rights reserved.

The contents of this manual may be changed without prior notice.

This product supports TCP/IP (IPv4/IPv6).

This product displays fonts created by TypeBank Co., Ltd. and ARPHIC TECHNOLOGY.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



The CE mark, that shows that the products sold in the EU are conformed to the requirements of EC directive, is statutorily obliged to be affixed to the products.

In each directive, the scope of directive to be applied to equipment is explicitly defined. Our company's product LP-2060 series conforms the EMC directive, low voltage directive and RoHS Directive.

Inquiry of CE mark:

OKI Europe Ltd.

Wide Format Division

Siemensstrasse 9 , D-63263 Neu-Isenburg

Germany

Tel: +49 (0)6102 297 400

Fax: +49 (0)6102 297 50 400

OKI Data Infotech Corporation

8 Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba 261-8507, Japan

Phone : +81 43 211 1363

Fax : +81 43 211 8709

Preface

Your Printer is a Teriostar LP-2060 Series wide format Printer (Referred to as the Printer in this manual), and this manual describes the general handling methods for the Printer, the Printer functions, and the operating methods. They are written on the assumption that the Printer has already been installed.

For details about the copy, scan, and submission functions in the multifunction models, see the separate *User's Manual for Multifunction Printer Operation*.

To handle the Printer safely and correctly, be sure to read the **Safety Precautions** carefully before use. Keep this manual in a place where you can easily read it when required.

The LP-2060 printer model may not be sold in some countries or regions.

Safety Precautions

In this manual, the following symbols are used to alert the user to information that will prevent damage to the Printer, and ensure its safe and correct use.

These symbols are explained below. Make sure that you thoroughly understand the information. Always follow the instructions marked by these symbols.

■ Symbol Examples

 Warning	If this information is ignored and the Printer is handled incorrectly, it may result in serious injury or death.
 Caution	If this information is ignored and the Printer is handled incorrectly, it may result in injury or machine damage.

△ This symbol indicates that caution is required (includes dangers and warnings).



The example on the left indicates a safety **Warning or Precaution**.



This symbol indicates a prohibited action.



The example on the left means **Do not disassemble**.



This symbol indicates required actions or instructions.



The example on the left means **Disconnect the power plug from the outlet**.



Warning



Be very careful not to touch the fuser unit labeled HIGH TEMPERATURE inside the Printer.
Burn injuries may result.



Do not disassemble or modify the Printer.
An accident or malfunction may result.



Do not heat a toner cartridge or a waste toner bottle containing waste toner, nor place it into a flame.
It may burst or ignite, resulting in an accident or fire.



Never use the Printer in a location exposed to abnormally high humidity or moisture.
A fire, electric shock, or malfunction may result.



Do not drop metal pieces such as staples, or spill water, or other liquids inside the Printer or through gaps.
A fire, electric shock, or malfunction may result.



Do not connect or disconnect the power cord or other parts with wet hands. An electric shock may result.



In the following situations, turn off the power, and disconnect the power plug from the outlet. If you continue using the Printer in an abnormal condition, an accident or fire may result.

- ◇ When cleaning
- ◇ When an abnormal odor, noise, or smoke is emitted
- ◇ When foreign matter such as metal pieces or water get inside the Printer or through gaps
- ◇ When a problem that must be repaired by the service representative occurs



Connect the power plug separately to a power socket with a rated voltage of 120V and a rated current of 16A or more, or to a power socket with a rated voltage of 230V and a rated current of 9A or more. To prevent a fire or electric shock, avoid the sharing of power with other equipment.

	Be sure to remove the dust on the power plug and the socket. Do not use a dusty plug as a current leak due to humidity on its surface may heat the plug and result in fire.
	Make sure that the Printer is well grounded. Failure to ground the Printer may result in electrical shock, fire, and increased susceptibility to electromagnetic interference.
	Do not fix, twist, bind, modify, stretch, or bend excessively the power cord. Do not put heavy object on it. A damaged power cord may heat and result in fire or electrical shock.
	If the power cord is cut or if the wires are exposed, ask a service representative for replacement. Using a damaged power cord may result in fire or electrical shock.



Caution

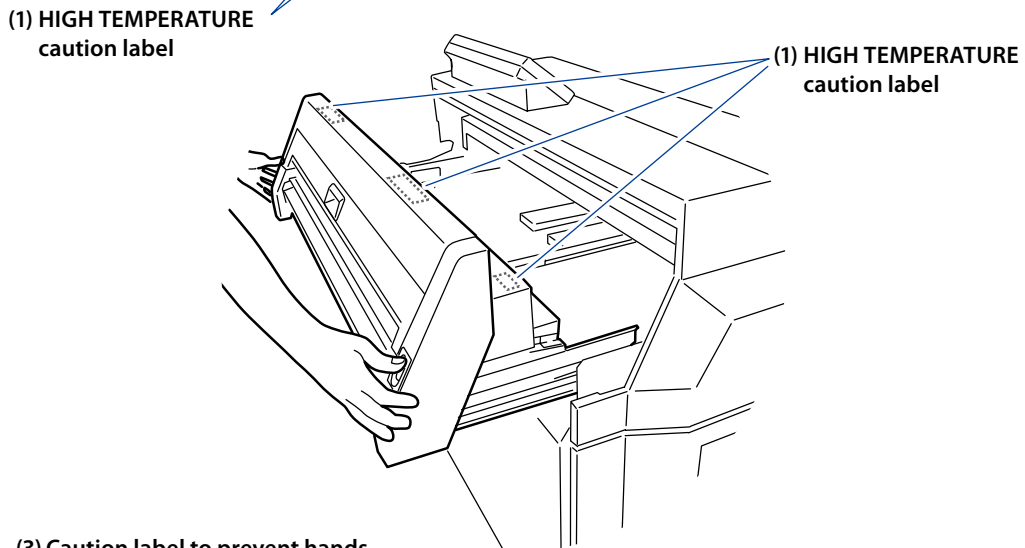
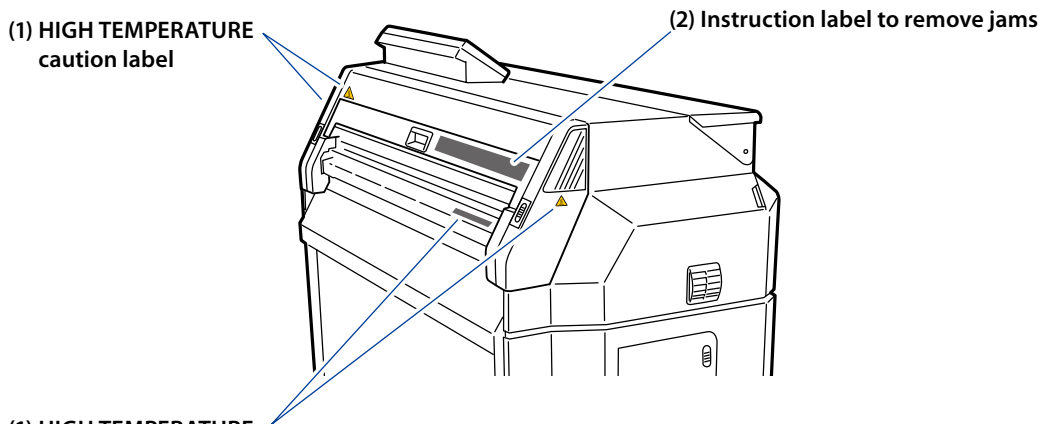
	Do not disassemble or modify the toner cartridge. The toner on your skin will have a negative effect. If ink stains your skin or clothing, wash with soap and water immediately.
	To prevent a toner leakage, do not drop the toner cartridge nor expose it to strong impacts. If toner gets into your eyes, do not rub your eyes, and wash the toner out. Visit a doctor immediately.
	As the roll paper is heavy, handle it carefully to make sure that you do not drop it. Dropping the roll paper on your feet may result in injury.
	When installing the roll paper, use the cutter to cut the end of the paper. At this time, be careful not to injure yourself on the cutter.
	Install the Printer close to a power outlet. Make sure the outlet is easy to reach in case the power plug needs to be disconnected in an emergency.

	When connecting and disconnecting the power cord, hold it by the plug or connector. To prevent a fire, electric shock, or malfunction, avoid pulling the cord.
	If you use a power strip, change it for a new one at least once a year.
	Do not use an extension cable or an adapter plug.
	Once a month, turn the power switch off and inspect the followings. Contact your service representative if you detect any problem. ◇ The plastic insulator at the base of the plug's pins does not suffer from heat deformation. ◇ The plug's pins are not bent or covered by rust. ◇ There is no dust between the plug's pins. ◇ The power cord is not frayed and the energized wires are not exposed. ◇ The plug is firmly plugged into the socket. ◇ There is no dust on the plug or the socket.
	Before moving the Printer from its current installation location to another location, contact your service representative.

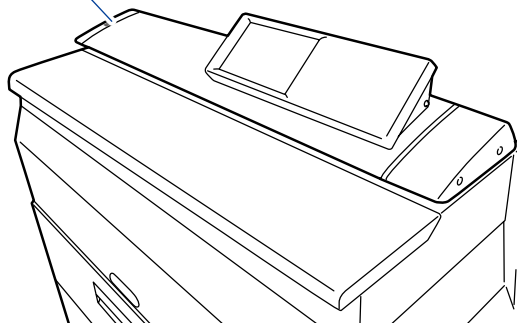
In addition to the items above, observe the warnings and precautions in each section of the manual.

Warning Labels

Warning labels are affixed to the Printer in the locations shown in the figure below. Make sure you understand the information on the warning labels before handling the Printer.



(3) Caution label to prevent hands from being stuck MF



- (1) **HIGH TEMPERATURE** caution label, affixed inside, seen when the fuser unit door is opened.

This label warns against touching heated parts.

The fuser unit becomes very hot. Be careful not to touch this area inside the Printer, while the cover is opened, e.g., to remove a paper jam.



- (2) Instruction label to remove jams

This label indicates the removal direction for jammed paper when a jam occurs in the fuser unit.

Remove the paper by following the instruction on the label.



- (3) Caution label to prevent hands from being stuck **MF**

This label raises your caution to prevent your hands from being stuck between the Printer and the scanner.

On closing the scanner, do not place your hands near this label.



Reading the Manual

◆ Manual Structure

This manual is comprised of 6 chapters and an appendix.

Chapter 1 describes information such as the printer features and part names. These should be known before starting operations. First, read Chapter 1 to understand the basic information about the Printer.

Chapter 2 describes the items that are required for operating the Printer, such as turning the power on, and off, and setting the paper. Read this chapter to learn about the basic methods for handling the Printer.

Chapter 3 describes the Printer's functions and their setup procedure.

Chapter 4 describes the Print Job Box function of the Printer. Read this chapter to learn the basic settings of this function and how to use it.

Chapter 5 describes the authentication function for the Printer. Read this chapter to manage the Printer and the users of the Printer.

Chapter 6 describes the action to solve a Printer problem. Take appropriate action by following the instructions in this chapter.

The **Appendix** contains the Printer's basic specifications, command lists, and menu structure.

◆ Notations

■ Indicators

Warning

- ◆ Describes information equivalent to a **Warning** in a safety precaution.

Caution

- ◆ Describes information equivalent to a **Caution** in a safety precaution.

Note

- ◆ Describes the information to be noted on handling the Printer.



TIP

The **Tip** indicator.

Indicates useful information, supplementary operation, or other information.



( **page**) The **Reference** indicator.

The reference section or page is shown after this indicator.



Indicates functions or part names that only applied to the Multifunction Model.

◆ D-SCAN format

Note that the following related to D-SCAN is applied only for the customers in Japan.

- All descriptions in the documents for LP-2060/LP-2060-MF.
- All messages appearing on the operation panel.

Supplied Items

The Printer components and options are shown in the tables below.

If any parts are missing or damaged, contact the store of purchase or your nearest service representative.

Printer Components	Quantity	Notes
Printer	1	
Toner cartridge	3	For installation check
Waste toner bottle	1	Installed in the Printer
Quick Reference Guide	1	
CD-ROM	1	
Paper flange	4 set	2 per set
Process cartridge	1	With 2 ozone filters
Roll paper	1	30 m each for A0, A1, and A3 For installation check Not attached for the 120V system printers.
Output tray	1	
Original output guide MF	2	
Toner door/document table MF	1	
Original width guide MF	2	
Power cord	2	To the 200V system printers, two types of the power cords are attached. To the 120V system printers, no power cord is attached as it is already mounted and fixed to the printers.

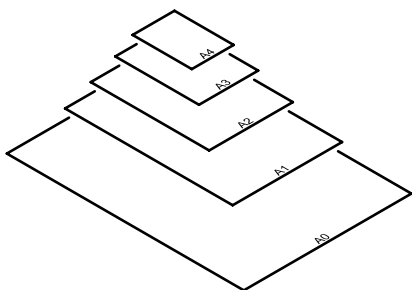
Consumables

Product Name	Part No.	Quantity	Notes
Toner Cartridge	LP-761	2	
Waste Toner Bottle	LP-850	1	
Process Cartridge	LP-852	1	
Charger Unit	LP-860	1	
Paper Flange	LP-871	1 set	2 per set
Process Cartridge 60	LP-872	1	For tracing paper (60g/m ²)

Options

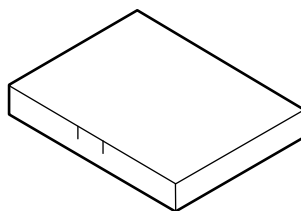
Printer Components	Part No.	Quantity	Notes
Carrier Sheet Set MF	LP-819	1	For protecting original documents
STACKER STD	LP-854	1	For stacking printouts with A2 or more
Catch Basket	LP-863	1	For stacking printouts with A1 or more
Bucket (W)	LP-859	1	For storing printouts.
Original Stacking tray	LP-858	1	For storing original documents output from the scanner.
TerioStation PDF Print	LP-874	1	For high-speed PDF print operation using TerioStation.
ActiveActive Directory authenticationDirectory	LP-868	1	To perform individual authentication using Active Directory.
Smart card authentication kit		1	To perform individual authentication using smart cards.

LP-819 Carrier Sheet Set **MF**

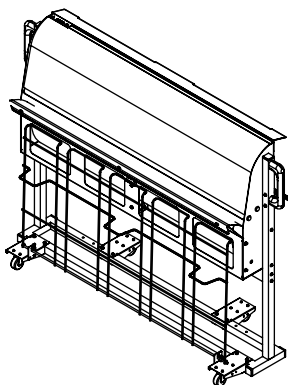


LP-874 TerioStation PDF Print

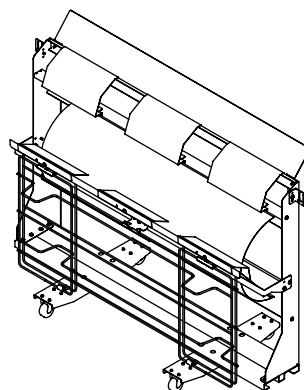
LP-868 Active Directory authentication



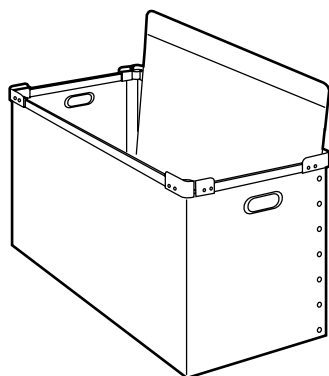
LP-854 STACKER STD



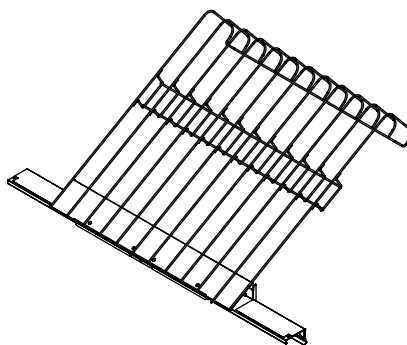
LP-863 Catch Basket



LP-859 Bucket (W)



LP-858 Original Stacking tray **MF**



Smart Card Authentication Kit

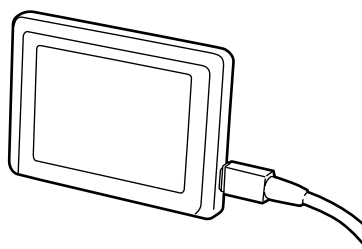


Table of Contents

Preface

▼ Safety Precautions	4
▼ Warning Labels	8
▼ Reading the Manual.....	10
Manual Structure	10
Notations	11
D-SCAN format	11
▼ Supplied Items	12
▼ Consumables	13
▼ Options	13

Chapter **1** Before Use

▼ Features.....	24
▼ Operation Requirements	26
Environment Requirements	26
Ensure Good Ventilation.....	27
Installation/Maintenance Space	28
Supported paper	29
▼ Part Names and Functions.....	32
Front Side	32
Left Side and Rear Side	33
Inside	34
Operation Panel	35
▼ Mode Screen	39

Chapter 2

Basic Operations

▼ Turning the Power On/Off	42
Powering On	43
Powering Off	45
▼ Replacing the Roll Paper	46
Replacement Precautions	47
Removing the Roll Paper	48
Installing the Roll Paper	49
▼ Replacing the Toner Cartridge.....	53
Handling Precautions.....	54
Toner Replacement Procedure	55
▼ Replacing the Waste Toner Bottle.....	58
Replacement Precautions	59
Waste Toner Bottle Replacement Procedure.....	59
▼ Replacing the Charger Unit.....	62
Charger Unit Replacement Procedure.....	62
▼ Replacing the Process Cartridge	66
Replacement Precautions	66
Process Cartridge Replacement Procedure.....	67
▼ Job Operation	73
Printing Pause and Cancellation.....	74
Handling Print Jobs	74
▼ Web Functions	75
Functions.....	75
▼ Cleaning the Exterior.....	77
▼ Using Paper from a New Size Standard	78
▼ Using Paper from a User Defined Series	80
▼ Restricting the Available Rolls	82

Chapter 3

Menu Functions

▼ Menu Mode Screen	84
Confirming Printer Restart	86
▼ Paper Menu	87
Rolls 1 to 4 Paper Types	87
Rolls 1 to 4 Size Standards	87
▼ Printer Engine Menu	89
Power Save Time	89
Top Cut Timer for Roll n (n = 1 to 4)	89
Top Cut at Door Open	90
Print Density	91
Humidity for Tracing Paper	91
Power Saving in Standby	91
Output Report to Tray	92
Print Reports with Other Paper	92
▼ System Menu	93
Communication Parameters	93
Available Size Standards	104
Paper Size Standards	105
User Defined Size	106
Printer Settings	107
▼ Ports Settings Menu	113
Common Settings	113
Port 1 to 20	114
▼ Setup Items in PDL Settings Menu	117
Available Data Formats	117
Automatic Data Format Identification	117
Setting Parameter Table in PDL Setting Menu	118
PDL Parameter Priority Mode	119
Paper Parameters	120
Drawing Parameters	126
Scale Parameters	129
Format Parameters (only with HP-GL and D-SCAN)	136
Pen Parameters (only with HP-GL and D-SCAN)	142

Raster Parameters.....	146
PDC (Print Data Converter) Parameters.....	147
Stamp Parameters.....	150
▼ Function Menu.....	153
Print System Settings	153
Print Print Settings	153
Print Copy Settings MF	153
Print Submission Settings MF	153
Print All Settings	154
Print for Fax Transmission	154
Print Error Log.....	154
Print Engine Information.....	154
Print Scanner Information MF	154
Initialize Port Accounting Information.....	154
Print Port Accounting Information.....	155
Initialize for Std Use	155
All Output Trays to On	155
All Output Trays to Off.....	155
PDL Setting Print (Port 1 to 20)	155
▼ Options Settings Menu	156
▼ Submission Destination Setting Menu	157
▼ Adjustment Menu	161
▼ Smart card settings Menu	162
▼ Import/Export Menu	163
Export Operation.....	167
Import Operation	168
▼ Date and Time Settings Menu	169
▼ Delete HDD Data Menu.....	170

Chapter 4

Print Job Box Function

▼ Overview of the Print Job Box Function	172
▼ Print Job Box Settings Menu	173
▼ Print Job Box Operation	175
▼ Using Smart Cards with the Print Job Box Function	178
Preparation	178
Smart Card Registration Procedure	178
Print Procedure Using a Smart Card	182

Chapter 5

Authentication Function

▼ Authentication Function Overview	186
▼ Printer Administration	189
User Administrators and Standard Users.....	189
Registering a Supervisor	192
Registering User Administrators.....	193
Enabling Printer Administration	195
Administrator Login	197
▼ User Authentication.....	198
Operation Guide for User Authentication	198
Printer Setting Procedure to Enable User Authentication Operation ...	201
Registering a User	202
User Authentication Setting Procedure.....	205
Allow User Info Edit	208
Overview of No Authentication Print Job Settings	209
No Authentication Print Job Settings	
(Disabling Authentication from Specified Computers).....	209
No Authentication Print Job Settings	
(Disabling Authentication for Ports).....	211
User Authentication Procedure (Login) and Logout	213
One-time Password Authentication	218
AD-related Attributes Location.....	221
▼ Smart Card Registration Procedure.....	222
Preparation 1	222
Preparation 2	222
Registration of Smart Cards by Users with the Printer.....	223

Chapter 6

Troubleshooting

▼ Initial Checks	226
▼ When the Error Screen Appears	227
Paper Jam.....	227
Door is Open	235
▼ Error Log Reference	236
Procedure to Check the Error Log.....	236
Error Log List.....	236
▼ Ethernet Troubleshooting	247
▼ Image Quality Defects.....	249
▼ Unusual Sound.....	250
▼ When you have set the wrong language.....	251

Appendix

▼ Basic Specifications	254
Printer Specifications.....	254
▼ Menu Structure	256
Printer Engine Menu.....	257
System Menu	258
Ports Setting Menu	264
PDL Setting Menu.....	265
Print Job Box Settings Menu	272
Smart card settings Menu.....	273
▼ Command Lists	274
List of HP-GL and HP-GL/2 Printer Engine Control Commands	274
List of HP-GL and HP-GL/2 Printer Engine Printing Commands.....	275
List of HP RTL Printing Commands.....	278
List of D-SCAN Format Commands.....	280
TIFF Tags.....	286
CALS Format Record	287
Commands Supported by lpd	289
xpt (socket I/F).....	289

Chapter 1

Before Use

Chapter 1 describes the information required for using the Printer. Be sure to understand the basic information described in this chapter before moving to the next chapters.

Chapter Contents

▼ Features	24
▼ Operation Requirements	26
▼ Part Names and Functions.....	32
▼ Mode Screen.....	39

Features

This manual explains the operation for LP-2060-MF/LP-2060 Wide Format Printer, that is:

- A monochrome raster printer with electro photographic technology, to receive and Print the graphic data created on a workstation or personal computer (referred to as “computer” in this manual).
- A multi function device, that combines the monochrome raster Printer with a contact image scanner.

Multifunction Model



Printer Model



The Printer has the following features.

High-speed printing at high resolution

With a printing speed of 105 mm (4.13 inches)/sec, the Printer outputs A0 size 5 pages in 1 minute. In addition, highly accurate printing with 600 dpi resolution is output.

Multi port interface

The Printer is equipped with an Ethernet interface that enables network connections.

With the Ethernet interface, 20 logical ports can be used, enabling up to 20 computers to be connected at the same time.

**2-stage 4-roll
feed mechanism,
compatible with
long pages**

The Printer is equipped with a 2-stage roll feed mechanism in which 4 types of roll paper are supported:

- A0 (or 36 inches)
- A1 (or 24 inches)
- A2 (or 18 inches)
- A3 (or 12 inches)

By selecting the roll paper from A0 to A4 depending on the original documents, the Printer eliminates paper waste and reduces running costs.

Also, the Printer outputs the long pages up to 15m (590.55 inches). For the maximum printing areas for the Printer, see the list below.

Paper type	Roll Paper Used	Max. Printing Range
Plain paper/ Recycled paper	A0 roll paper	841×15m (33.11×590.55 inches)
	A1 roll paper	594×15m (23.39×590.55 inches)
	A2 roll paper	420×1220mm (16.54×48.03 inches)
	A3 roll paper	297×920mm (11.69×36.22 inches)
Tracing paper (75g (2.65oz)/ m ²)	A0 roll paper	841×3600mm (33.11×141.73 inches)
	A1 roll paper	594×3600mm (23.39×141.73 inches)
	A2 roll paper	420×1220mm (16.54×48.03 inches)
	A3 roll paper	297×920mm (11.69×36.22 inches)
Tracing paper (60g (2.11oz)/ m ²) / Matte film	A0 roll paper	841×1220mm (33.11×48.03 inches)
	A1 roll paper	594×920mm (23.39×36.22 inches)
	A2 roll paper	420×610mm (16.54×24.02 inches)
	A3 roll paper	297×460mm (11.69×18.11 inches)



TIP

◇ **Printing areas do not include the 3 mm (0.12 inches) on front end, 2 mm (0.08 inches) on rear end, and 2 mm (0.08 inches) on both sides.**

**A wide
variety of paper
supported**

Plain paper, recycled paper, tracing paper (60 g (2.65oz)/m² and 75 g (2.11oz)/m²), and film are available in roll paper format. Select the paper type depending on your purpose.

**High resolution
scanner
unction MF**

An original is scanned and copied at 600 dpi resolution.

Operation Requirements

This section describes the operation requirements for the Printer.

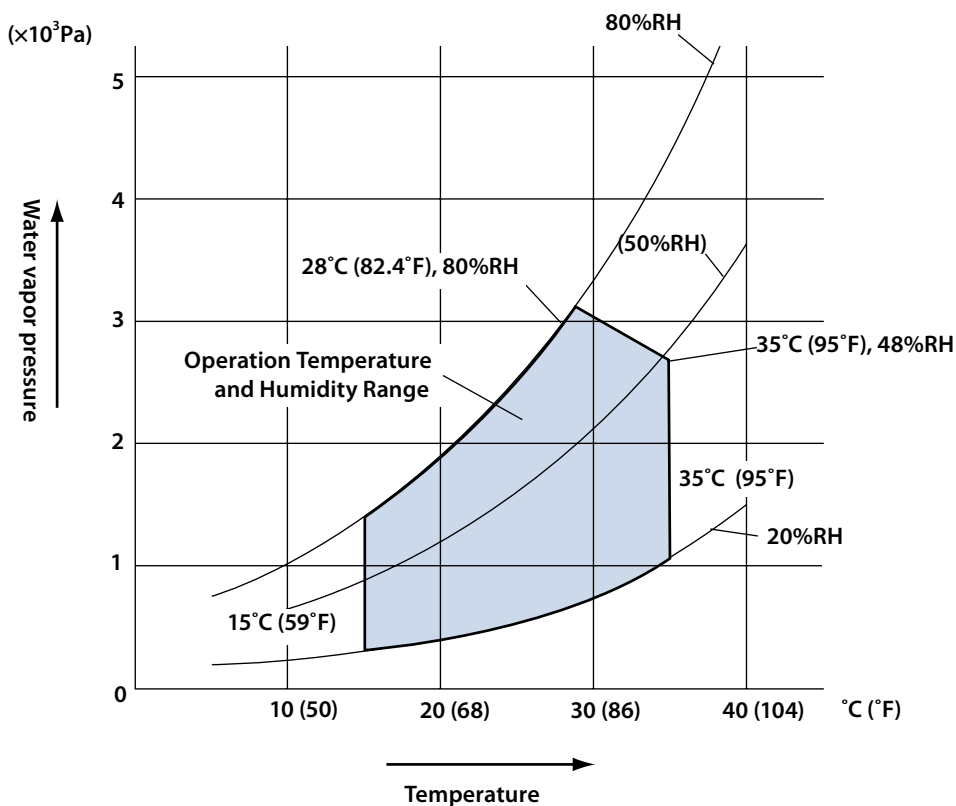
◆ Environment Requirements

Operate the Printer within the temperature and humidity range shown in the figure below.



TIP ◆ To obtain good image quality, operate the Printer within a temperature range of 20 to 30°C (68 to 86°F) and a humidity range of 45 to 60% RH.

■ Operation Temperature and Humidity Range



Note

- ◆ Even though the temperature and humidity is within the range shown above, at low temperature the scan speed may decrease or data processing time may increase. In such a case, to solve them you are recommended to increase the room temperature to be within the range 20°C to 30°C (68 to 86°F).

■ Warning Regarding Low-temperature Environment

When the Printer is in a low-temperature environment, a low-temperature icon is displayed on the screen.

When this icon is displayed, modify the ambient temperature so that it is within the recommended temperature range of 20°C to 30°C.



Note

- ◆ This may cause the scanning speed to become slower or the data processing time to become longer.

Do not install in the following locations.

- ◇ A location exposed to direct sunlight or a bright location, such as next to a window
- ◇ A location exposed to vibration
- ◇ A location exposed to a large amount of dust
- ◇ A location prone to sharp changes in temperature or humidity
- ◇ A location near a heater
- ◇ A location that may be exposed to water
- ◇ A location exposed to wind, such as from a ventilator outlet
- ◇ A location exposed to a significant amount of ammonia gas, such as from a diazo copying machine
- ◇ A location with poor ventilation

◆ Ensure Good Ventilation

If the Printer is used for a long time in a room with poor ventilation or to print a large number of copies, gases such as ozone may emit an unpleasant odor, and reduce the comfort of the office environment. Also, chemical substances may be emitted during printing operations. Ensure enough ventilation and air circulation for safe use of the Printer.

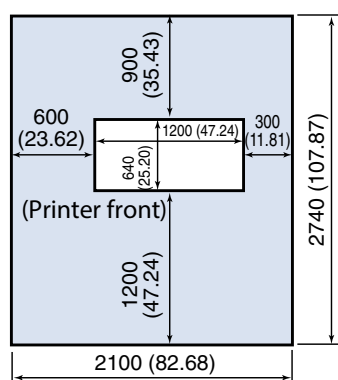
◆ Installation/Maintenance Space

Installation and maintenance space shown in the figure below is required for:

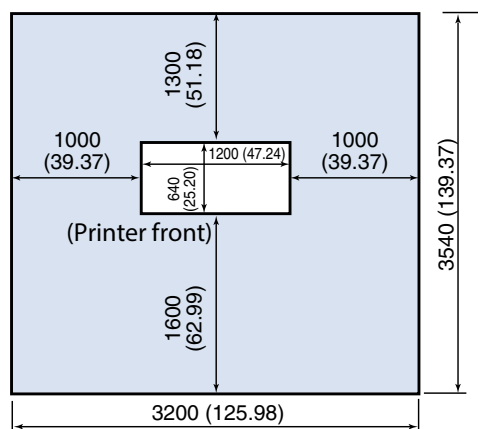
- Consumables replacement
- Printout handling
- Ventilation
- Repair operation including parts replacement

■ Installation/Maintenance Space

Installation Space



Maintenance Space



Unit: mm (inches)

2000 mm (78.74 inches) in height

Note

- ◆ Before relocating the Printer, contact your service representative.

◆ Supported paper

Use the OKI Data Infotech-specified roll paper listed below.

Note

- ◆ If the installed paper is not OKI Data Infotech-specified, the image quality is not guaranteed and the Printer malfunction may occur.

Store the paper carefully, following the instructions below.

Note

- ◆ To protect the paper against dust, put it in a bag.
- ◆ Store paper in a cool, dark, and dry place.

■ Roll Paper Specified by OKI Data Infotech

Part No.	Paper Type	Size
LP-733	Plain paper (67g (2.36oz)/m ²)	A0 width (841 mm (33.11 inches))
LP-780		A1 width (594 mm (23.39 inches))
LP-788		A2 width (420 mm (16.54 inches))
LP-781		A3 width (297 mm (11.69 inches))
LP-735	Tracing paper (75g (2.65oz)/m ²)	A0 width (841 mm (33.11 inches))
LP-782		A1 width (594 mm (23.39 inches))
LP-740		A2 width (420 mm (16.54 inches))
LP-783		A3 width (297 mm (11.69 inches))
LP-796	Tracing paper (60g (2.12oz)/m ²)	A0 width (841 mm (33.11 inches))
LP-784		A1 width (594 mm (23.39 inches))
LP-741		A2 width (420 mm (16.54 inches))
LP-785		A3 width (297 mm (11.69 inches))
LP-744	Matte film (#300)	A0 width (841 mm (33.11 inches))
LP-786		A1 width (594 mm (23.39 inches))
LP-743		A2 width (420 mm (16.54 inches))
LP-787		A3 width (297 mm (11.69 inches))
LP-610	Recycled paper (68g (2.40oz)/m ²)	A0 width (841 mm (33.11 inches))
LP-611		A1 width (594 mm (23.39 inches))
LP-612		A2 width (420 mm (16.54 inches))
LP-613		A3 width (297 mm (11.69 inches))

In addition, roll paper with the following widths can be used with this Printer.

■ ARCH Series

Roll Width	Standard	Longer Side	Shorter Side
36 inches (914.4 mm)	E standard size	1219.2 mm (48 inches)	914.4 mm (36 inches)
	D standard size	914.4 mm (36 inches)	609.6 mm (24 inches)
24 inches (609.6 mm)	D standard size	914.4 mm (36 inches)	609.6 mm (24 inches)
	C standard size	609.6 mm (24 inches)	457.2 mm (18 inches)
18 inches (457.2 mm)	C standard size	609.6 mm (24 inches)	457.2 mm (18 inches)
	B standard size	457.2 mm (18 inches)	304.8 mm (12 inches)
12 inches (304.8 mm)	B standard size	457.2 mm (18 inches)	304.8 mm (12 inches)
	A standard size	304.8 mm (12 inches)	228.6 mm (9 inches)

■ ANSI Series

Roll Width	Standard	Longer Side	Shorter Side
34 inches (863.6 mm)	E standard size	1117.6 mm (44 inches)	863.6 mm (34 inches)
	D standard size	863.6 mm (34 inches)	558.8 mm (22 inches)
22 inches (558.8 mm)	D standard size	863.6 mm (34 inches)	558.8 mm (22 inches)
	C standard size	558.8 mm (22 inches)	431.8 mm (17 inches)
17 inches (431.8 mm)	C standard size	558.8 mm (22 inches)	431.8 mm (17 inches)
	B standard size	431.8 mm (17 inches)	279.4 mm (11 inches)
11 inches (279.4 mm)	B standard size	431.8 mm (17 inches)	279.4 mm (11 inches)
	A standard size	279.4 mm (11 inches)	215.9 mm (8.5 inches)

■ 30×42 Series

Roll Width	Standard	Longer Side	Shorter Side
30 inches (762.0 mm)	30×42 size Standard size	1066.8 mm (42 inches)	762.0 mm (30 inches)
15 inches (762.0 mm)	15×21 size Standard size	533.4 mm (21 inches)	381.0 mm (15 inches)

■ MAP Series

Roll Width	Standard	Longer Side	Shorter Side
700.0 mm (27.56 inches)	B1 standard size	1000.0 mm (39.37 inches)	700.0 mm (27.56 inches)
	B2 standard size	700.0 mm (27.56 inches)	500.0 mm (19.69 inches)
500.0 mm (19.69 inches)	B2 standard size	700.0 mm (27.56 inches)	500.0 mm (19.69 inches)

■ DIN Series

Roll Width	Standard	Longer Side	Shorter Side
707.0 mm (27.83 inches)	B1 standard size	1000.0 mm (39.37 inches)	707.0 mm (27.83 inches)
	B2 standard size	707.0 mm (27.83 inches)	500.0 mm (19.69 inches)
500.0 mm (19.69 inches)	B2 standard size	707.0 mm (27.83 inches)	500.0 mm (19.69 inches)
	B3 standard size	500.0 mm (19.69 inches)	353.0 mm (13.90 inches)

■ User-defined Series

With user-defined series, standard-size printing is not available. All printing is performed at actual length.

Part Names and Functions

Chapter
1

Before Use

This section describes the Printer's part names, operation information, and functions.

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

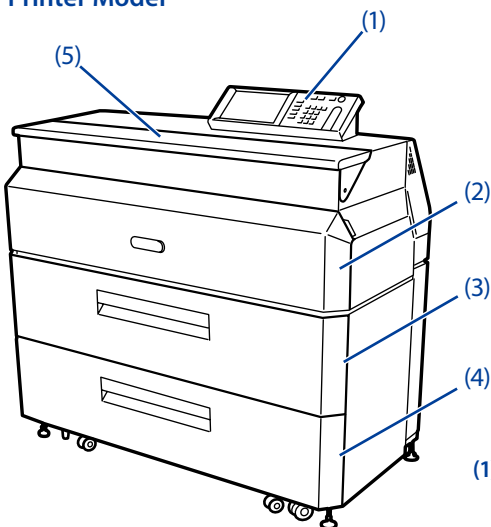
Chapter
6

Troubleshooting

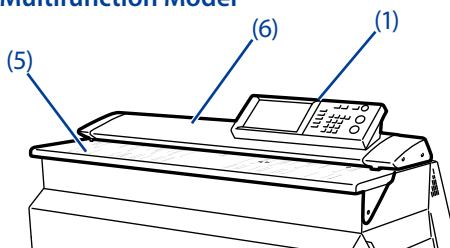
Appendix

◆ Front Side

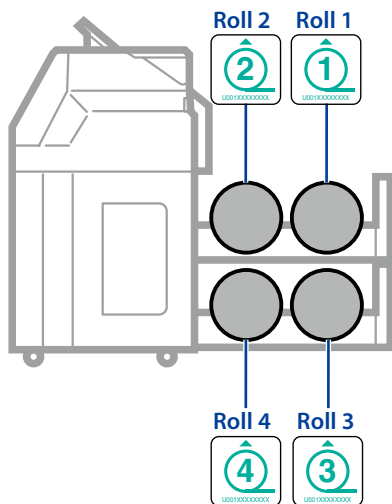
Printer Model



Multifunction Model



Roll number



(1) Operation panel

- Contains the following
 - Lamps and a screen to indicate the Printer status
 - Buttons to set functions. (📖 page 35)

(2) Front door

- Open to clear a paper jam inside the Printer. (📖 page 230)

(3) Drawer for rolls 1 and 2

- Sets the roll paper. (📖 page 48)

(4) Drawer for rolls 3 and 4

- Sets the roll paper. (📖 page 48)

(5) Toner door/document table **MF**

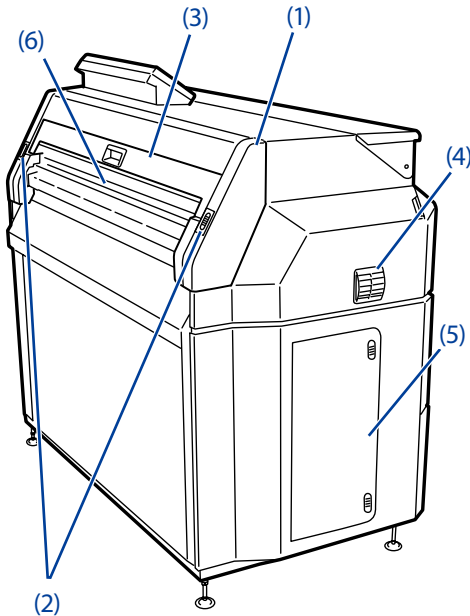
- Open to replace the toner cartridge. (📖 page 55)

(6) Scanner cover **MF**

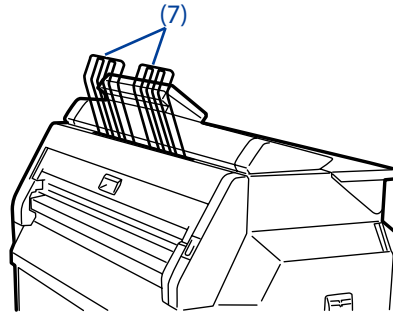
- Open to clear an original jam. (📖 page 233)

◆ Left Side and Rear Side

Printer Model



Multifunction Model



(1) Fuser Unit Drawer

Open to:

- Replace the process cartridge; or
- Clear a paper jam near the paper outlet

(📖 page 62, 📖 page 228)

(2) Latch button

Press to open the fuser unit drawer.

(📖 page 62, 📖 page 228)

(3) Paper outlet cover

Open to clear a paper jam in the cutter unit.

(📖 page 229)

(4) Filter cover

Remove to replace a filter. (📖 page 72)

(5) Waste toner door

Open when replacing a waste toner bottle.

(📖 page 60)

(6) Outlet slot

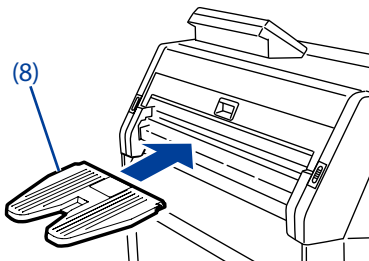
Outputs paper.

(7) Original output guide MF

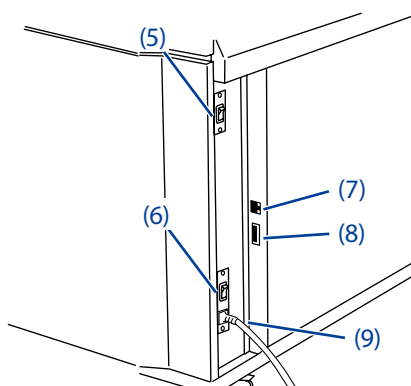
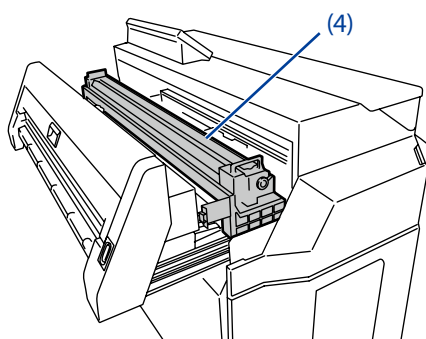
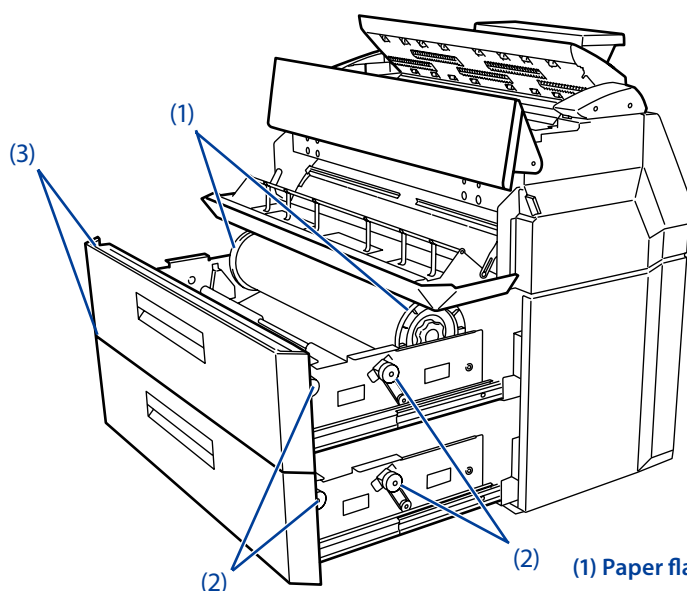
Guides the scanned original to the proper position.

(8) Output tray

Stores output paper sized A3 or smaller.



◆ Inside



(1) Paper flange

Installs the roll paper. (📖 page 49)

(2) Paper feed knob

Feeds the end of the roll paper into the paper inlet. (📖 page 51)

(3) Cutter

Cuts the paper. (📖 page 51)

(4) Process cartridge drawer

Open to replace a process cartridge.
(📖 page 67)

(5) Heater switch

The switch for the heater. (📖 page 42)

(6) Main power switch

Turn on or off to supply the power to the Printer.
(📖 page 42)

(7) Ethernet interface connector

The interface connector for 1000BASE-T, 100BASE-TX, and 10BASE-T.

(8) USB port

Used to connect a smart card reader or a USB drive.

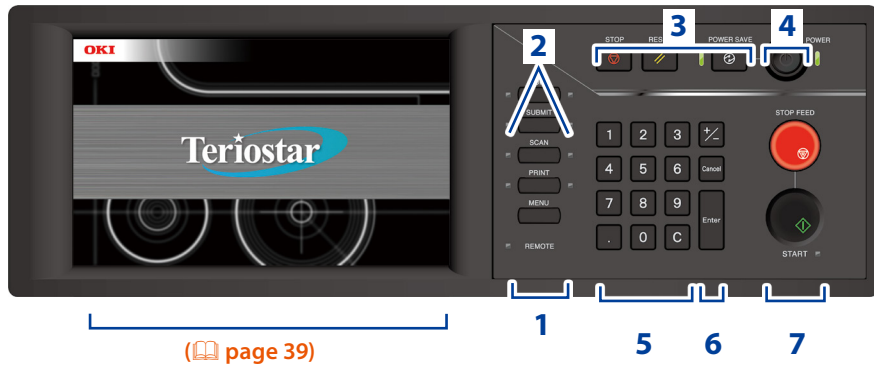
(9) Power cord

Insert into a power outlet.

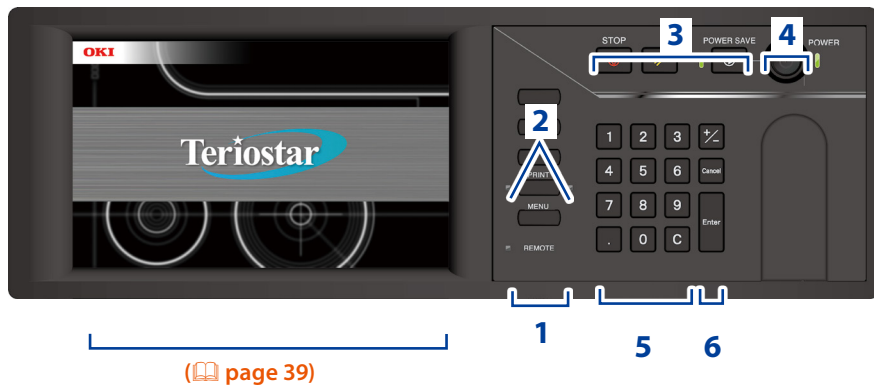
◆ Operation Panel

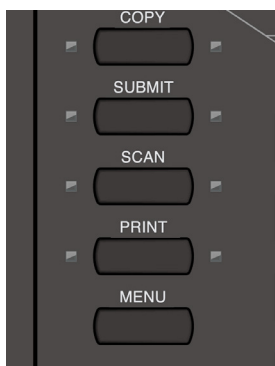
The layout for the keys, lamps, and touchpanel screen on the operation panel is shown in the following figures.

■ Multifunction Model



■ Printer Model





1

Changes the mode.

COPY button MF

Changes to copy mode, and the green lamp next to the button lights up. For more details, see the separate *User's Manual for Multifunction Printer Operation*.

SUBMIT button MF

Changes to submission mode, and the green lamp next to the button lights up. For more details, see the separate *User's Manual for Multifunction Printer Operation*.

SCAN button MF

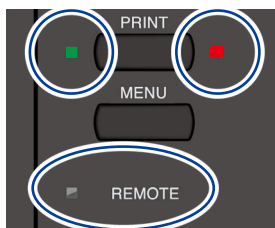
Changes to scan mode, and the green lamp next to the button lights up. For more details, see the separate *User's Manual for Multifunction Printer Operation*.

PRINT button

Changes to print mode, and the green lamp next to the button lights up. Printing can be performed.

MENU button

Changes to menu mode to specify the Printer's settings.



2

Indicate the Printer modes' status.

Green: Mode lamps

Green (lights up): Indicates the mode displayed on the screen.

Green (flashes): Indicates the job processing in the mode undisplayed on the screen.

Red: Error lamps

Red (lights up): Indicates that an error has occurred for the corresponding mode.

REMOTE lamp

Green (lights up): Indicates data transmission with connected computers or access from Web functions.



3

Resets the settings, stops a printing in progress, and changes to power save mode.

RESET button **MF**

In copy mode or submission mode, press this button to reset the settings and return to the initial mode.

STOP button

Press this button to stop printing in progress.

POWER SAVE button

While the Printer is idling, press this button to change to power save mode. The lamp next to the button lights up. After changing to power save mode, the screen display turns off. To cancel the power save mode, press POWER SAVE again.



TIP

◇ The Printer is set to enter power save mode automatically if no operations are performed for a prescribed time. This time can be changed. For more details, see [Chapter 3](#).



4

Turns the Printer power On or Off.

5

Enters the number of copies or the setting values.

Numerical keypad

Uses to enter the values.

C button

Clears the setting values.

6

Changes, enters, or cancels the setting values.

+/- button

Uses to enter the values.

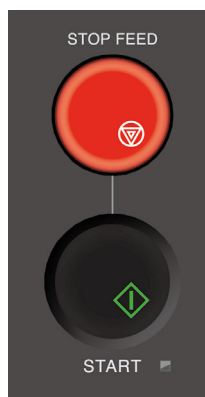
Enter button

Confirms the setting values.

Cancel button

Cancels the input operation or the last scanned document when copies are stored.



**7**

Starts scanning the original or stops scanning in progress. **MF**

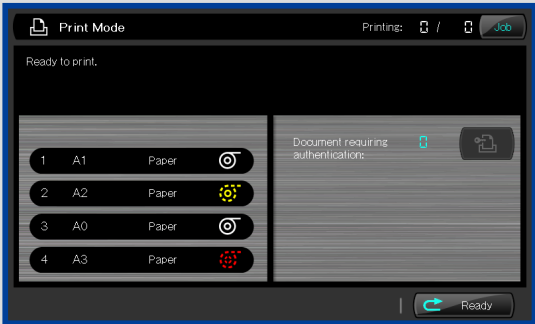
STOP FEED button

Stops the scanning of the original.

START button

Starts the scanning of the original.

Mode Screen



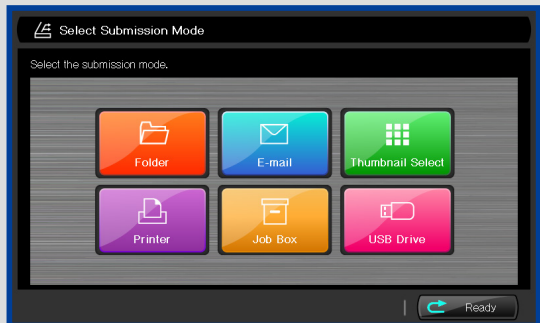
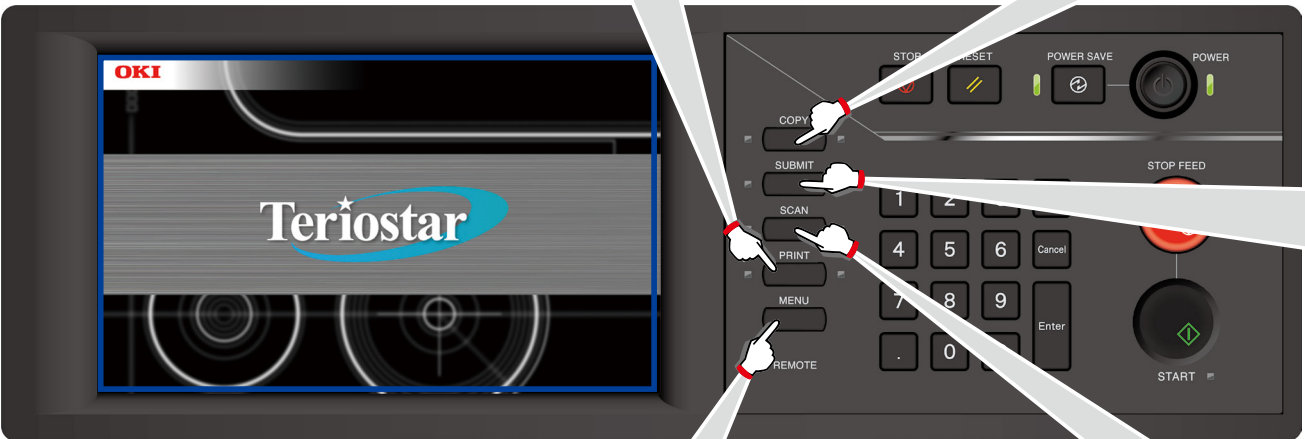
Print Mode Screen

Displays the size, type and the current level of paper.



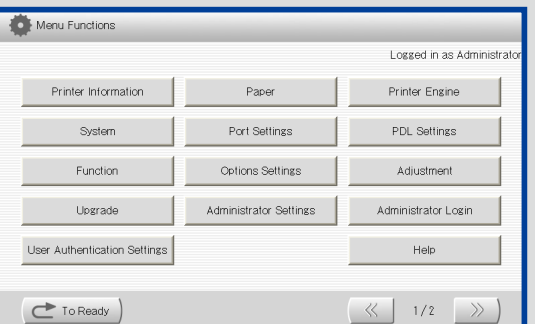
Copy Mode Screen MF

Performs copy operations. For more details, see the separate *User's Manual for Multifunction Printer Operation*.



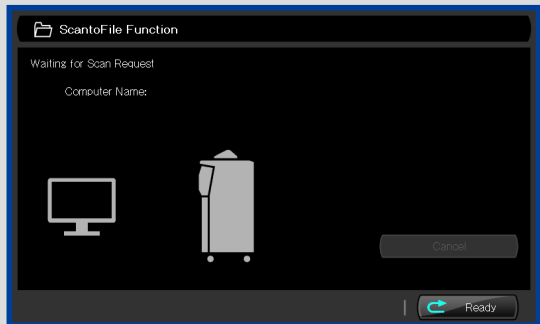
Submission Mode Screen

Submits image data scanned with the Printer to a shared folder of a computer connected to the network, a printer connected to the network, or the submission box in the HDD of the Printer. For more details, see the separate *User's Manual for Multifunction Printer Operation*.



Menu Mode Screen

Shows the Printer's status and settings. For the structure of the Setup menu, see the following page.



SCAN Mode Screen MF

For scanning an original from a computer connected to the network. For more details, see the separate *User's Manual for Multifunction Printer Operation*.

Chapter 1	Before Use
Chapter 2	Basic Operations
Chapter 3	Menu Functions
Chapter 4	Print Job Box Function
Chapter 5	Authentication Function
Chapter 6	Troubleshooting
	Appendix

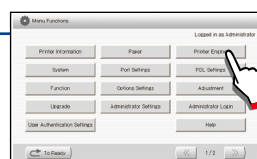
PDL Setting

Sets the printing parameters and similar items.
(page 117)



Printer Engine

Sets the operation conditions for the Printer engine.
(page 89)



Power Save Time (page 89)

Top Cut Timer (page 89)

Top Cut at Door Open (page 90)

Print Density (page 91)

Humidity for Tracing Paper (page 91)

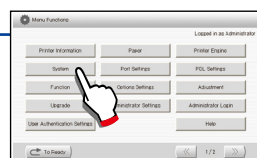
Power Saving in Standby (page 91)

Output Report to Tray (page 92)

Print Reports with Other Paper (page 92)

System

Sets the Printer's general system settings.
(page 93)



Communication Parameters (page 93)

Available Size Standards (page 104)

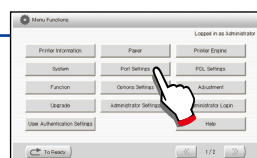
Paper Size Standards (page 105)

User Defined Size (page 106)

Printer Settings (page 107)

Port Setting

Sets the communication port.
(page 113)



Common Settings

Port 1 (page 114)

Port 20

Port 1_HP-GL

Port 20_HP-GL

Paper Parameters

(page 120)

Drawing Parameters

(page 126)

Scale Parameters

(page 129)

Format Parameters

(page 136)

Pen Parameters

(page 142)

Raster Parameters

(page 146)

PDC Parameters

(page 147)

Stamp Parameters

(page 150)

- Paper Supply Mode
- Page Size
- Print Copies
- Size of Automatically Supplied Paper
- Con. OtherPaper in ContinuousMode
- Con. Other Paper in Optimal Mode
- Centering
- Paper Type
- Excess Size Tolerance
- Con. Other Paper w/ Auto Rotation
- A4 Direcw/ ActualSize&Continuous
- Output tray
- Print from End
- Print Direction

- Parameter Mode
- X Offset
- Writing Mode
- Reverse
- Offset Mode
- Y Offset
- Mirror
- Error Memo
- Same Drawing Size with Top and Bottom Blank

- Scale Settings
- Scale in ANSI
- Scale for ANSI Series Roll Width
- Scale in A
- Scale for A Series Roll Width
- Scale for User Defined Roll Width
- Scale in ARCH
- Scale for ARCH Series Roll Width

- Printer Drive
- Language
- Terminator PG1;
- Terminator NR;
- Terminator SP0
- Terminator ESC.;
- Terminator AF;
- Terminator AH;
- Terminator FR;
- Drawing Size Command
- Drawing
- Identify by Paper Number

- Pen Settings
- Pen 0 to 15

- Binary Image Scale
- Screening
- Uniformity effects

- PDC Parameters
- File save destination
- File naming rules 1
- File naming rules 2
- File naming rules 3
- File naming rules 4
- Format of date and time created
- File format
- Number of destination folder for submission

- Stamp position
- Stamp direction
- Distance from paper edges
- Characters Height
- Stamped items 1
- Stamped items 2
- Stamped items 3
- Stamped date and time format
- Stamped character string

Port 1_D-SCAN

Port 20_D-SCAN

Paper Parameters

(page 120)

Drawing Parameters

Parameter Mode (page 126)

Scale Parameters

(page 129)

Format Parameters

Drawing Identify by Paper Number (page 136)

Pen Parameters

Pen 1 to 32 (page 142)

Raster Parameters

(page 146)

PDC Parameters

(page 147)

Stamp Parameters

(page 150)

Port 1_TIFF

Port 20_TIFF

Paper Parameters

(page 120)

Drawing Parameters

Reverse (page 126)

Scale Parameters

(page 129)

Raster Parameters

(page 146)

PDC Parameters

(page 147)

Stamp Parameters

(page 150)

Port 1_CALS

Port 20_CALS

Paper Parameters

(page 120)

Drawing Parameters

(page 126)

Scale Parameters

(page 129)

Raster Parameters

(page 146)

PDC Parameters

(page 147)

Stamp Parameters

(page 150)

Chapter 2

Basic Operations

Chapter 2 describes the basic operations for the Printer. These include turning the power on and off, replacing the paper, and replacing the toner cartridge.

Chapter Contents

▼ Turning the Power On/Off.....	42
▼ Replacing the Roll Paper	46
▼ Replacing the Toner Cartridge.....	53
▼ Replacing the Waste Toner Bottle	58
▼ Replacing the Charger Unit	62
▼ Replacing the Process Cartridge	66
▼ Job Operation	73
▼ Web Functions.....	75
▼ Cleaning the Exterior	77
▼ Using Paper from a New Size Standard.....	78
▼ Using Paper from a User Defined Series	80
▼ Restricting the Available Rolls	82

Turning the Power On/Off

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

Chapter
5

Authentication
Function

Chapter
6

Troubleshooting

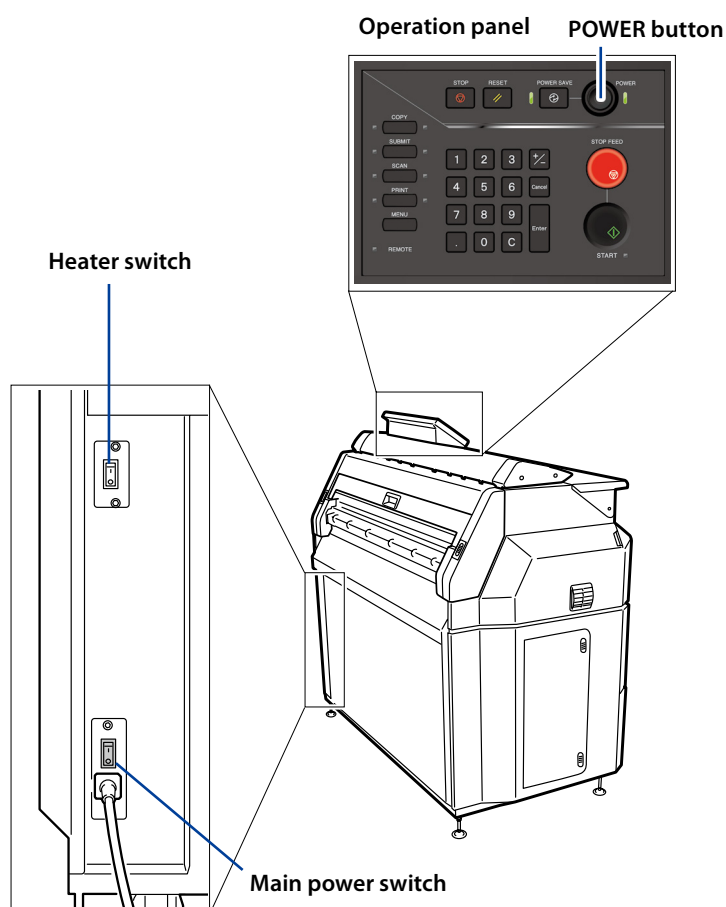
Appendix

The Printer has two power switches. The main power switch is on the bottom left when viewed from behind the Printer, and the **POWER** button is on the operation panel.

Normally, keep the main power switch on, and turn the Printer's power on or off by pressing **POWER** on the operation panel.

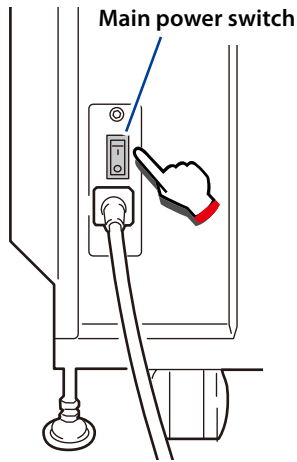
Note

- ◆ Do not turn off the main power switch while data is being processed. The system may crash.



◆ Powering On

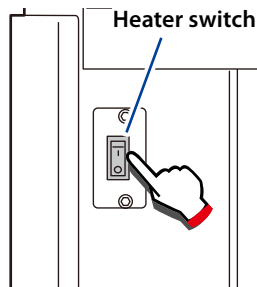
1



Turn on the main power switch on the bottom left when viewed from behind the Printer.

Press the main power switch to the I side (upper side).

2



Set the heater switch to On if the humidity is high or the paper is wrinkled.

Press the heater switch to the I side (upper side).

3



After ensuring that the main power switch is on, press POWER on the Printer's operation panel.

The first time the power is turned on after purchasing the Printer, guidance is displayed for initial settings such as the panel language.

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

Chapter
6

Troubleshooting

Appendix



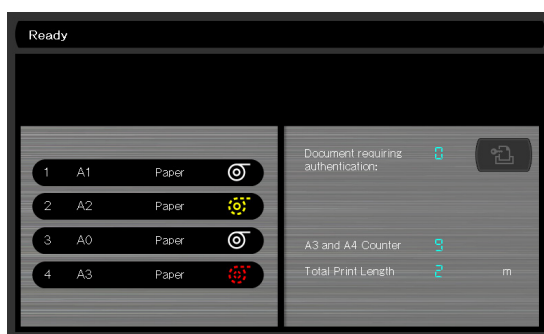
The first time the power is turned on after purchasing the Printer, the following settings must be configured.

- Panel language
- Printer initialization
- Date and time settings
- IP address, subnet mask, and default gateway of the Printer

If these items have already been set, the following display appears.

During warming up, **Warming up...** and the warming up counter are displayed.

Warming up takes approximately 3 minutes.



If waiting print jobs remain when turning the power off, the following message is displayed next time the power is turned on.



Select **Yes** to delete the waiting print jobs.

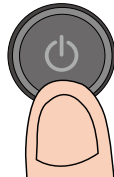
Select **No** to keep the waiting print jobs. In this case, the waiting print jobs are printed when the Printer starts.

After about 10 seconds, **No** is automatically selected and the message disappears.

◆ Powering Off

Before turning off the power, make sure that the Printer is ready to receive data (standby screen is displayed).

1



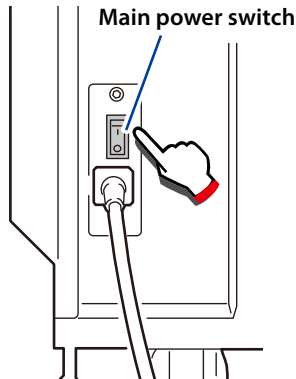
Hold down **POWER** on the Printer's panel for about 1 second.

When **Shutting Down** is displayed, release the button.

If a job exists, it is saved automatically. Printing for the saved job is available the next time the power is turned on.

After the shutdown process is completed, the power turns off.

2



If the Printer will not be used for a long time, turn off the main power switch.

Press the main power switch to the ○ side (lower side).

Note

- ◆ Always turn off the power using the **POWER** button on the operation panel. Directly turning off the main switch may damage the data stored inside the Printer.
- ◆ Do not turn off the power when the **REMOTE** lamp is flashing.

Replacing the Roll Paper

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

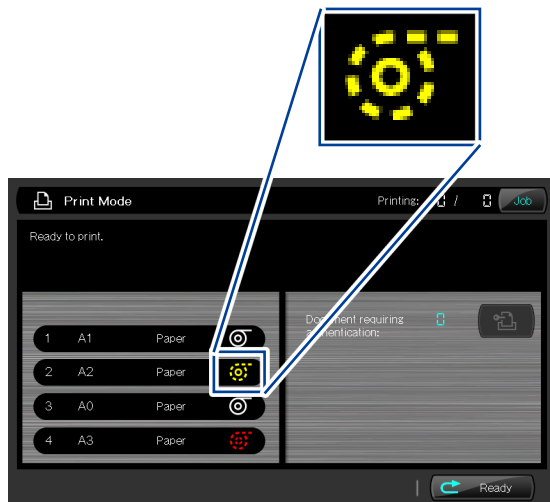
Chapter
6

Troubleshooting

Appendix

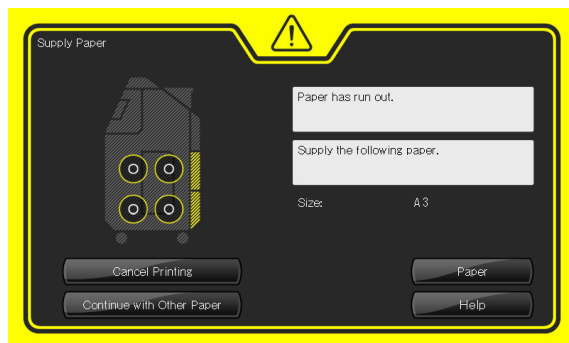
This section describes the removal and installation procedures at the roll paper replacement.

When the roll paper is running out, the roll paper icon on the screen changes as follows.



When the icon above is displayed, the Printer can output approximately 50 m (1968.50 inches) of printout. So get ready to replace the paper roll with a new one.

When the roll paper is used up, an error lamp lights up, and the following is displayed on the screen.



- TIP** ◇ When the prompt message to supply paper appears, you can cancel the one page of the job waiting for the paper. Apply this function when the required paper is not available any more.
- ◇ When the prompt message to supply paper appears, press **Alternative Printing** to print with:
- a paper size bigger than the requested paper; or
 - a paper type different from the requested paper.

However, Alternative Print is not effective when:

- On the print mode, **Paper Supply Mode** is set to **Roll 1, Roll 2, Roll 3, or Roll4**; or
 - On the copy mode, **Roll Position** setting is not **Auto**.
- ◇ With rolls other than user defined series, the roll paper width is displayed as follows. (Changing the unit of length does not change the display.)

A series	A0 A1 A2 A3
ARCH series	36 in. 24 in. 18 in. 12 in.
ANSI series	34 in. 22 in. 17 in. 11 in.
30×42 series	30 in.
MAP series	707 mm (27.83 inches) 500 mm (19.69 inches)
DIN series	707 mm (27.83 inches) 500 mm (19.69 inches)

With the user defined series, the screen displays the values, specified at the User Defined Size 1 to 4, in mm or in inches.

Example:

234.5 mm, when the unit of length is set to mm.

12.3 in., when the unit of length is set to inches.

Note

- ◆ If the paper type and the paper series are specified on the supply paper screen, press Paper to set the paper type and the paper series before loading the new roll.

◆ Replacement Precautions



Caution

- ◆ The roll paper is heavy. Be careful not to drop it and injure yourself.
- ◆ The recommended roll paper size for installation on roll positions 2 and 4 is A2 or less.
When installing a roll paper size of A1 or larger, get the help of another person to carry the roll paper. Installing the paper by yourself may injure your back.
- ◆ Be careful not to hit the roll paper against the cutter unit or rest it on top of the unit. The cutter unit may be damaged.
- ◆ Be careful not to drop the roll paper onto the flange guide. The flange guide may be damaged.
- ◆ The flange guide will be damaged if you drop the roll paper when the paper flanges are installed.

- ◆ When installing the roll paper, cut the end of the paper with the cutter. At this time, be careful not to injure yourself on the cutter.
- ◆ Be careful not to trap your hand when opening and closing the roll paper drawers. When a roll paper drawer is open, do not open the other roll paper drawer. The risk of trapping your hand will increase.

Note

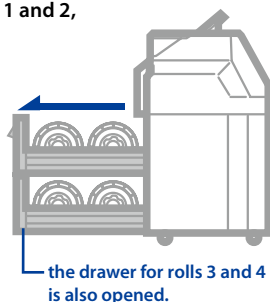
- ◆ Use the OKI Data Infotech-specified roll paper. If your paper is not OKI Data Infotech-specified, the image quality is not guaranteed.
- ◆ Store paper in a cool, dark, and dry place



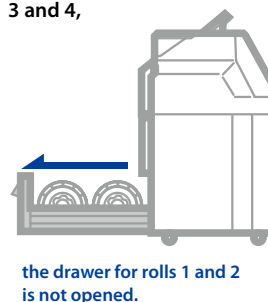
TIP

- ◆ Note that the drawer for rolls 3 and 4 is also opened when you open the drawer for rolls 1 and 2.

When opening the drawer for rolls 1 and 2,

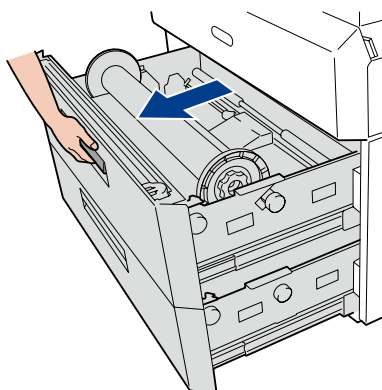


When opening the drawer for rolls 3 and 4,



◆ Removing the Roll Paper

1

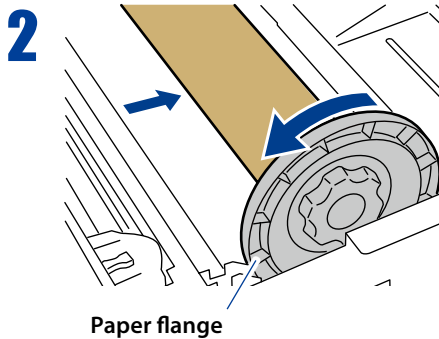


Pull out the drawer for rolls 1 and 2, or the drawer for rolls 3 and 4.

Hold the center handle with your fingers, and pull it out towards yourself slowly.
(In the example in the figure, the drawer for rolls 1 and 2 is opened.)

Note

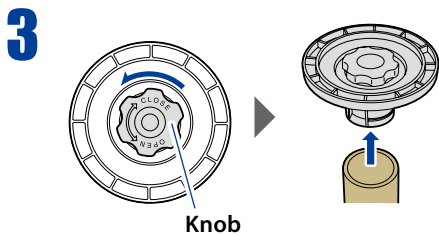
- ◆ You are recommended to open the roll paper drawers with both hands if you cannot open them easily.
- ◆ Do not open the drawer by holding the cutter unit. This may cause a malfunction.



Rewind and remove the roll paper.

Turn the paper flanges in the direction shown in the figure. Rewind the roll paper until the end of the paper appears.

Lift up the paper flanges, and remove the roll paper.



Release the paper flanges, and remove the roll paper.

Loosen the paper flange knobs by turning them in the **OPEN** direction. Remove the paper flanges on both sides.

Note

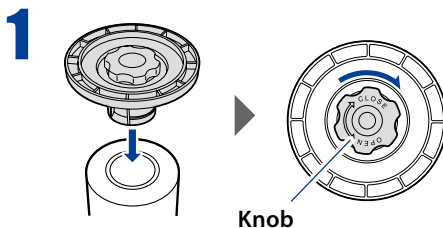
- ◆ To prevent the paper flange ends from being misaligned, do not turn the paper flange knobs too much with excessive force.

◆ Installing the Roll Paper



TIP

- ◆ There is no difference between the left and right paper flanges. The flanges can be installed on either side.



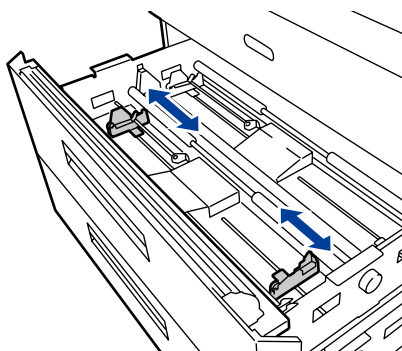
Set the paper flanges onto the roll paper.

Insert the end of a paper flange onto the roll paper tube. Fasten the flange by turning the knob in the **CLOSE** direction.

Note

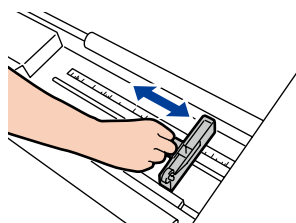
- ◆ If a paper flange knob is too loose, the roll paper will move from side to side. There will be a negative effect on printing. Fasten the knobs tightly.

2

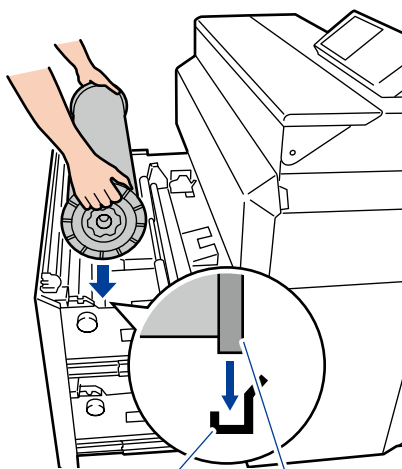


Move the flange guide.

Align the flange guide with the position appropriate for the roll paper size.



3

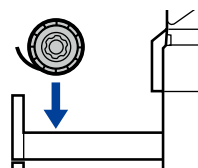


Flange guide

Paper flange

Set the roll paper into the Printer.

Hold the roll paper so that the paper end appears at the front bottom. Slowly insert the paper flange while aligning it with the groove on the flange guide.



Note

- ◆ Be careful not to drop the roll paper.



Caution

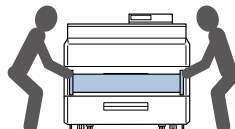
- ◆ The recommended roll paper size for installation on roll positions 2 and 4 is A2 or less. When installing a roll paper size of A1 or larger, get the help of another person to carry the roll paper. Installing the paper by yourself may injure your back.



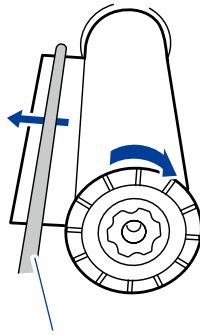
No



Ok



4

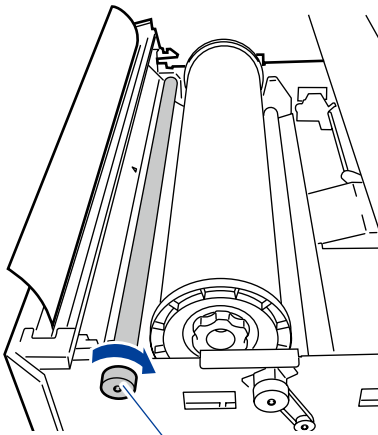


Paper feed roller

Insert the top of the roll paper under the paper feed roller.

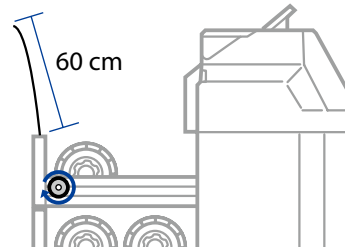
By manually rotating the paper flange, feed the roll paper.

5

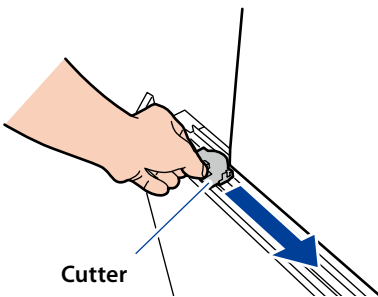


Paper feed knob

By rotating the paper feed knob, feed the roll paper so that the top of the roll paper protrude from the printer by approximately 60 cm.



6



Cutter

Move the cutter to cut the paper.

Dispose of the cut paper.

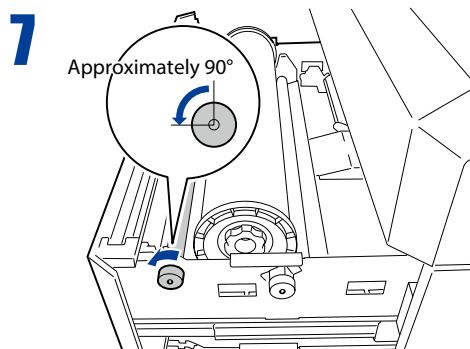
Note

- ◆ After cutting the paper, move the cutter to the arrowed position in the right or left.



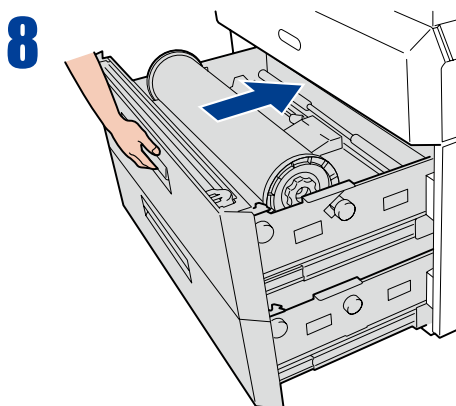
Caution

- ◆ Be careful not to injure yourself on the cutter.



Slightly rewind the roll paper.

Slightly rewind the roll paper by turning the paper feed knob by approximately 90°.



Close the roll paper drawer.

Hold the handle and slowly push in the drawer for rolls 1 and 2, or the drawer for rolls 3 and 4. (It takes about 30 seconds for the paper feeding to get ready.)

When the Printer contains the jobs to be completed, the printing is started.

Note

- ◆ After closing a roll paper drawer, do not open it again until the **Warming up...** (Warming-up counter) message disappears.
- ◆ Paper detection is performed immediately after closing the roll paper drawer. As such, opening a roll paper drawer at this time may cause a paper jam.

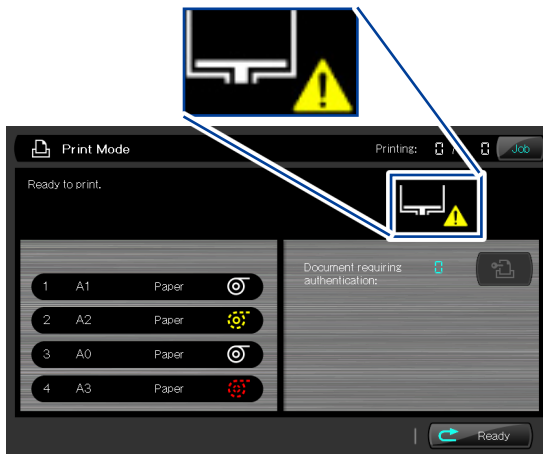


TIP

- ◇ When you set a roll paper of a different type or series, press **Paper** on the supply paper error screen. Set the type and the series of the new paper roll on the paper setting popup screen which appears.

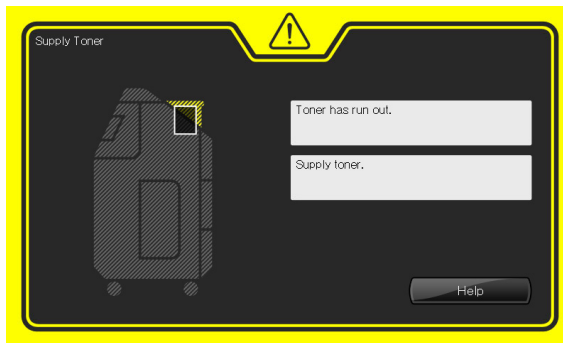
Replacing the Toner Cartridge

When the toner level is low, the icon below is displayed on the screen.



After the icon above appeared, about 100 m (3937.01 inches) of printing is possible. However, prepare a new toner cartridge in advance to replace the toner.

When the toner runs out, the screen below is displayed. Replace the toner following the procedure described below.



TIP

- ◆ When you open the toner door/document table **MF**, you will see the **Toner Replacement** label. Refer to this when replacing the toner cartridge.

Note

- ◆ Do not print pages with a high print coverage rate just before the toner runs out, such as pages with a lot of solid printing or reverse printing (white on black). The Printer may be damaged when the toner runs out. To avoid this, replace the toner as soon as possible when the toner level runs low.
- ◆ The **Supply Toner** screen may not disappear if you replace only one toner cartridge after the toner has run out.

◆ Handling Precautions

Warning



- ◆ Do not put a used toner cartridge into a flame. It may cause a fire or burns.
- ◆ Put the used toner cartridge into the bag provided in the box of the new toner cartridge. Dispose of it as nonburnable trash.

Caution

- ◆ Do not drop the toner cartridge or expose it to strong impacts. Toner may leak from the cartridge.
- ◆ Do not force open the toner cartridge.
- ◆ Do not touch the toner directly. If toner accidentally makes contact with your skin or clothes, wash it off immediately with water.
- ◆ Make sure that toner does not get into your eyes, and that you do not breathe it in. If toner accidentally gets into your eyes, wash it out with a large amount of water. Consult a doctor.
- ◆ Store the toner cartridge in a place out of the reach of children. If a child accidentally swallows some toner, wash the child's mouth thoroughly with water. Then make the child drink a large amount of water. Take the child to a doctor for an examination.

Note

- ◆ If you move the toner cartridge from a cold place to somewhere warm, leave it in room temperature for at least 3 hours before using it.
- ◆ After installing a new toner cartridge, try to use it all within 6 months. If a long period of time elapses after installing a cartridge, the printing quality will deteriorate.
- ◆ Store toner cartridges in a cool and dark place.
- ◆ Use genuine toner cartridges.

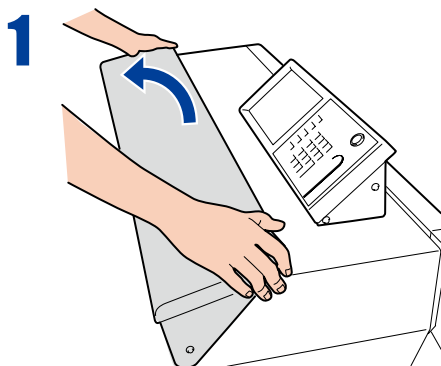
◆ Toner Replacement Procedure

Caution

- ◆ The toner spills out when the green tape on the cartridge is removed. To avoid the toner from spreading, remove the tape only after installing the cartridge into the Printer and pulling it as far as it goes to the left side.
- ◆ Never refill an empty toner cartridge with toner. A malfunction may result.

Note

- ◆ Before replacing the toner cartridge, make sure that the power is on and **Supply Toner** is displayed.
When the power is off, the toner amount is not detected. As such, even if the toner cartridge is replaced correctly, the error is not canceled.
- ◆ Wait until all printing jobs have finished before replacing the toner cartridge. If replacement is performed during a printing operation, the printing will stop, and the corresponding data may be lost.
- ◆ Do not replace the toner cartridge twice consecutively.

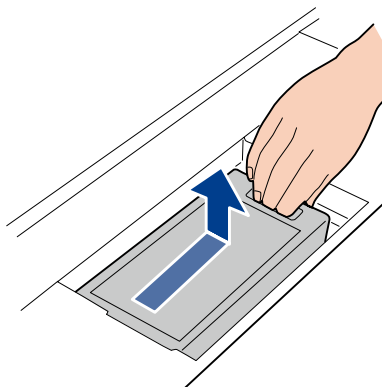


With your both hands, open the toner door (or document table **MF**).

Warning

- ◆ Never refill an empty toner cartridge with toner. A malfunction may result.

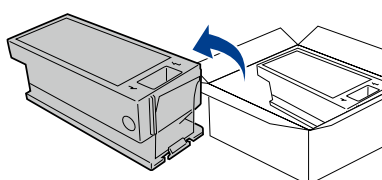
2



Remove the empty toner cartridge.

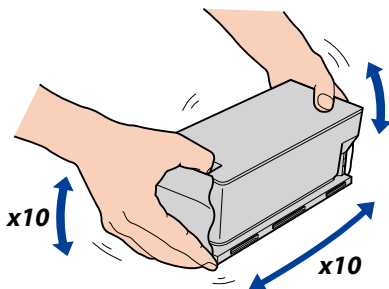
Hook your fingers on the concave part of the toner cartridge, pull the cartridge to the right of the Printer as far as it goes, then lift up and remove the cartridge.

3



Remove the new toner cartridge from its box.

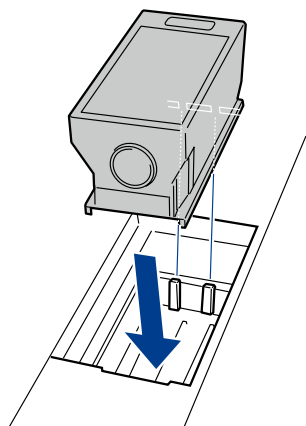
4



Shake the new toner cartridge to mix the toner inside.

Shake up and down, and left to right, 10 times in each direction.

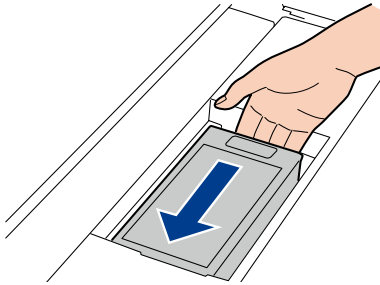
5



Set the toner cartridge into the Printer.

Insert the toner cartridge by aligning the tabs on the cartridge with the guide rails on the Printer.

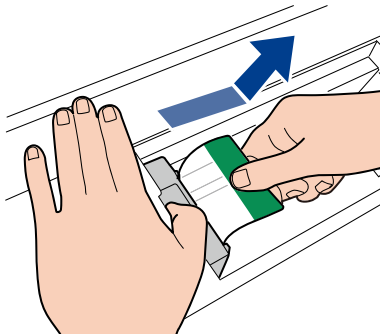
6



Push in the toner cartridge.

Push in the cartridge to the left of the Printer as far as it goes.

7



Pull off the green tape.

Pull off the green tape to the right side while holding the toner cartridge with your other hand. Be careful not to drop any toner adhered to the removed tape, and dispose of the tape according to the local regulations.

Note

- ◆ Be careful not to smear your hands, your clothes, or the Printer with toner adhered to the tape.

8



With your both hands, Close the toner door (or document table **MF**).

The toner mixing takes about 1 minute.

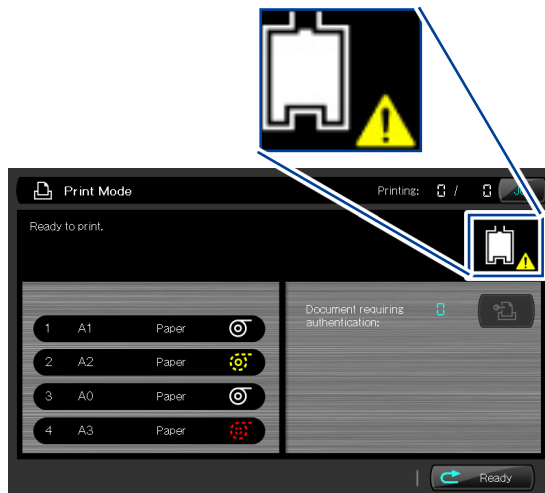


TIP

- ◆ Dispose of the used toner cartridge according to the local regulations.

Replacing the Waste Toner Bottle

When the waste toner bottle is nearly full with waste toner, the icon below is displayed on the screen.



After the icon above appeared, about 200 m (7874.02 inches) of printing is possible. However, prepare a new waste toner bottle in advance to replace the bottle.

When the waste toner bottle is full, the screen below is displayed. Replace the waste toner bottle following the procedure described below.



TIP

◇ An instruction label to replace waste toner bottle is affixed to the side of the waste toner bottle. Refer to this when replacing the waste toner bottle.

◆ Replacement Precautions

Warning



- ◆ Do not place a waste toner bottle into a flame. An accident or fire may result.

Caution

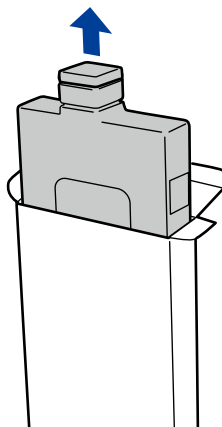
- ◆ Do not drop or hit a waste toner bottle that contains waste toner. The waste toner may spill.
- ◆ Do not touch the waste toner directly. If toner accidentally makes contact with your skin or clothes, wash it off immediately with water.
- ◆ Be careful not to breathe in the waste toner, and do not let it get into your eyes. If waste toner accidentally gets into your eyes, wash it out with a large amount of water. Consult a doctor.

Note

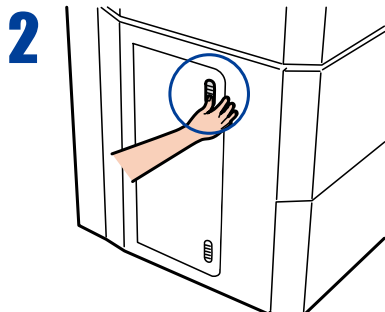
- ◆ Dispose of the waste toner bottle according to the local regulations.
- ◆ Wait until all printing jobs have finished before replacing the waste toner bottle.
- ◆ If a waste toner bottle is replaced during a printing operation, the printing will stop and the corresponding data may be lost.
- ◆ Do not reuse the waste toner bottle or the toner inside the waste toner bottle.

◆ Waste Toner Bottle Replacement Procedure

1

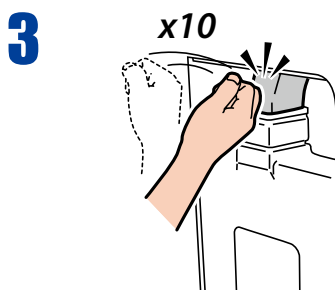
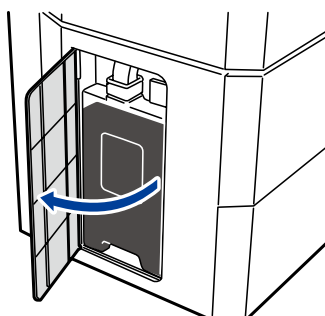


Remove the new waste toner bottle from its box.

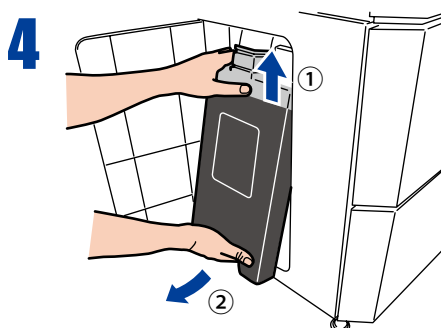


Open the waste toner door.

The waste toner door is on the left side of the Printer.



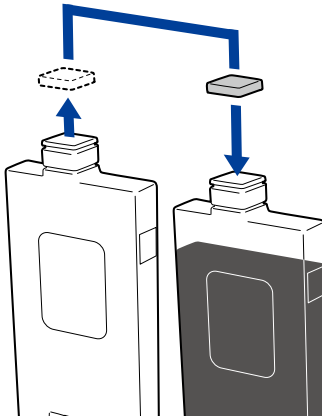
Lightly tap the duct to remove any waste toner accumulating inside.



Remove the waste toner bottle from the Printer.

- (1) Lift up the waste toner bottle.
- (2) Pull out the bottle towards you from the bottom.

5

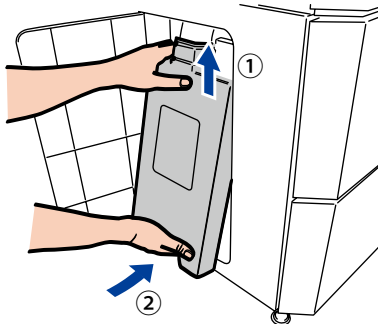


Remove the cap from the new waste toner bottle and screw it on the waste toner bottle that contains the waste toner.

Note

- ◆ Screw the cap securely. If not, when the toner bottle is fallen down accidentally, the cap may come away and the toner may spill.

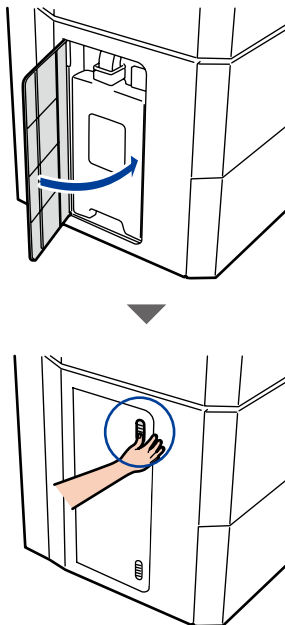
6



Install a new waste toner bottle.

- (1) Insert the opening of the waste toner bottle into the Printer's waste toner outlet. Insert the bottle while lifting it up slightly.
- (2) Lower the bottle to the floor of the Printer, and stabilize it.

7



Close the waste toner door.



TIP ◆ Dispose of the waste toner bottle according to the local regulations.

Replacing the Charger Unit

The following explains the procedure for replacing the charger unit.

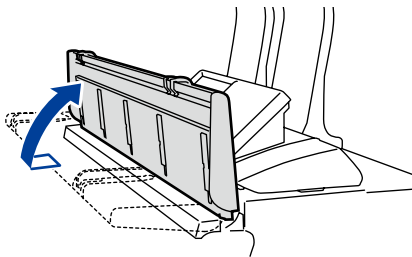
◆ Charger Unit Replacement Procedure

1



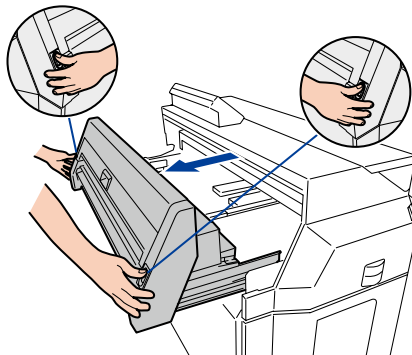
By pressing the POWER button on the operation panel, turn the Printer off.

2



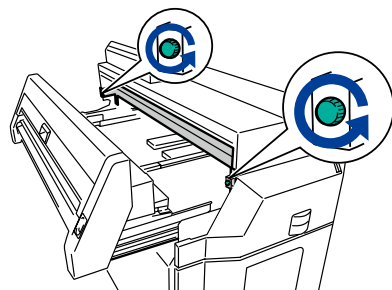
Put the document table in the vertical position. **MF**

3



Press the latch button, and open the fuser unit drawer.

4

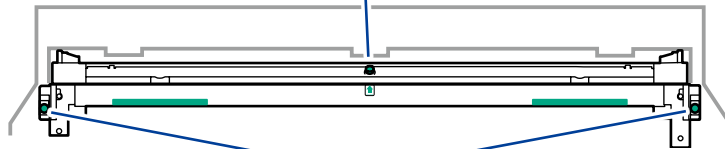


By rotating the right and left outer-side knobs counterclockwise, release the process cartridge drawer's lock.



TIP ◇ Note that the knobs are classified into two: inner-side ones and outside ones. At the **step 3**, rotate the outer-side knobs.

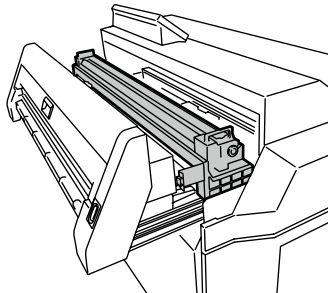
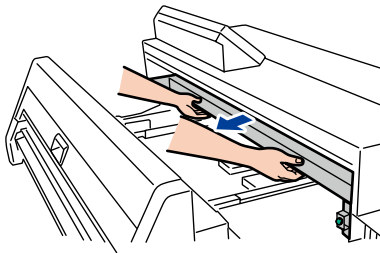
Inner-side knob

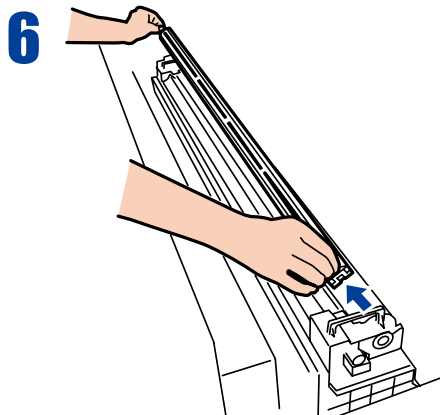


Outer-side knob

Pull out the process cartridge to your side by holding its green-indicated parts.

5

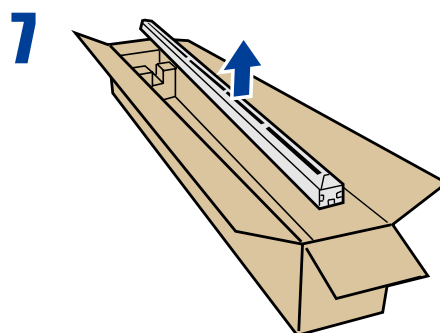




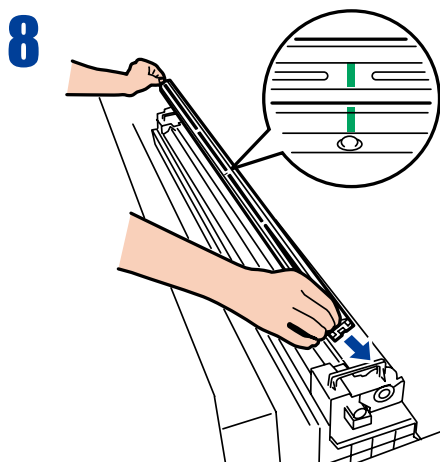
Pull the green handles to remove the charger unit.



TIP ◇ Dispose of the used charger unit according to the local regulations.



Remove a new charger unit from its box.



Install the new charger unit by aligning its | mark with the process cartridge's | mark.

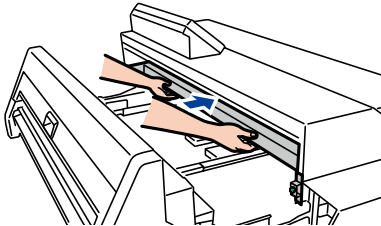
The charger unit does not have right and left sides.



TIP

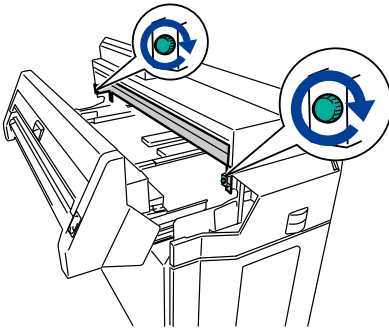
◇ The charger unit can be installed in either direction.
If lines or other defects appear on the printout, inverting the charger unit right and left sides may solve the problem.

9



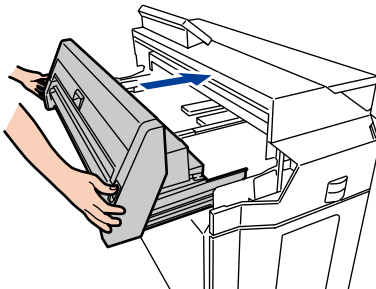
Close the process cartridge drawer.

10



By rotating the outer-side knobs, fix the process cartridge.

11



Close the fuser unit drawer.

12



By pressing the POWER button on the operation panel, turn on the printer.

Replacing the Process Cartridge

The following explains the procedure for replacing the process cartridge.

◆ Replacement Precautions



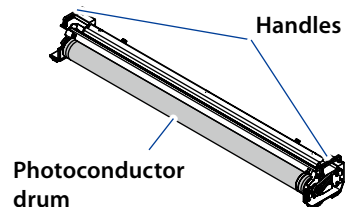
Warning



- ◆ Do not place a process cartridge into a flame. An accident or fire may result.

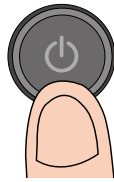
Note

- ◆ Keep the process cartridge stored in its cardboard box. Unpack the package only just before using it.
- ◆ When handling the process cartridge, hold the handles at each end firmly with both hands.
- ◆ Handle the process cartridge carefully to prevent the photoconductor drum surface from being scratched or damaged.
- ◆ Do not touch areas other than the handles of the process cartridge.
- ◆ Be sure to mount the process cartridge cover to protect the photoconductor drum and prevent its light deterioration. Remove the cover only when you are installing the process cartridge into the Printer.
- ◆ Black developing toner may be adhered to the photoconductor drum of a new process cartridge. However, this is for maintaining the cartridge in a good condition, so use the cartridge as is. The toner is cleaned automatically after the cartridge is inserted into the Printer. So it does not affect the print quality.
- ◆ To prevent the waste toner from being spilled, be careful not to expose the process cartridge to strong shaking, tilting, or impacts.



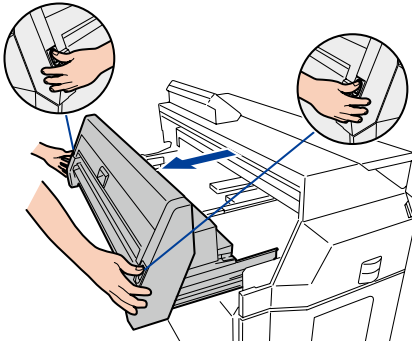
◆ Process Cartridge Replacement Procedure

1



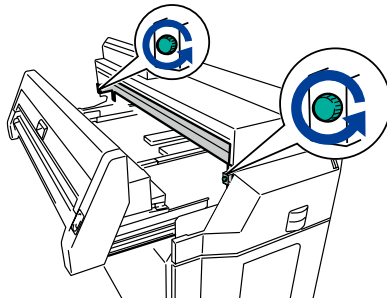
By pressing the POWER button on the operation panel, turn the Printer off.

2



Press the latch button, and open the fuser unit drawer.

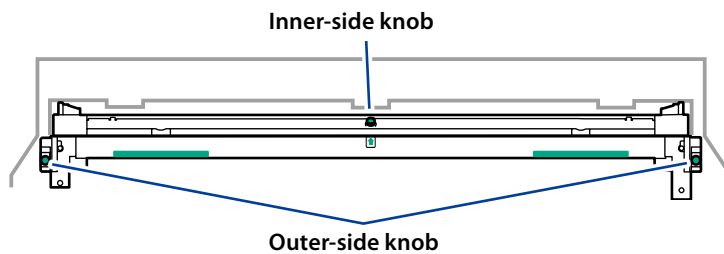
3



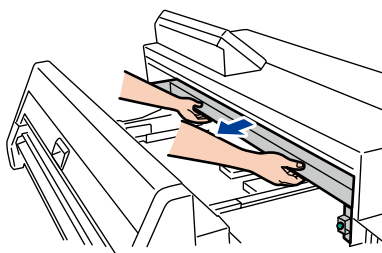
By rotating the right and left outer-side knobs counterclockwise, release the process cartridge drawer's lock.



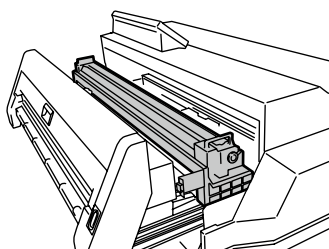
TIP ◇ Note that the knobs are classified into two: inner-side ones and outside ones. At the **step 4**, rotate the outer-side knobs.



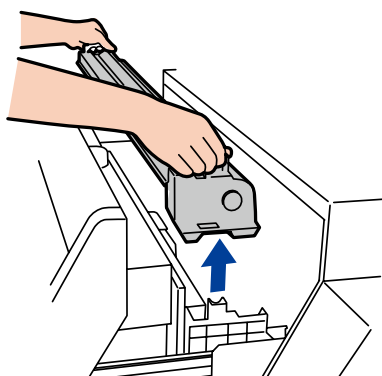
4



Pull out the process cartridge toward you by holding its green-indicated parts.



5



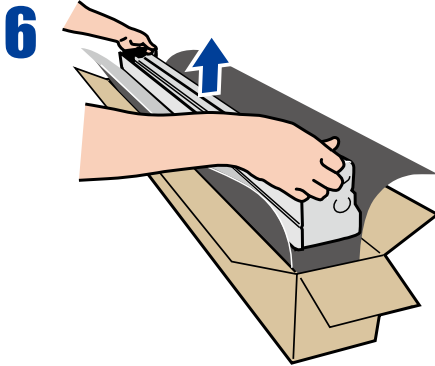
Remove the process cartridge.

Hold the handles on the process cartridge when pulling it out.



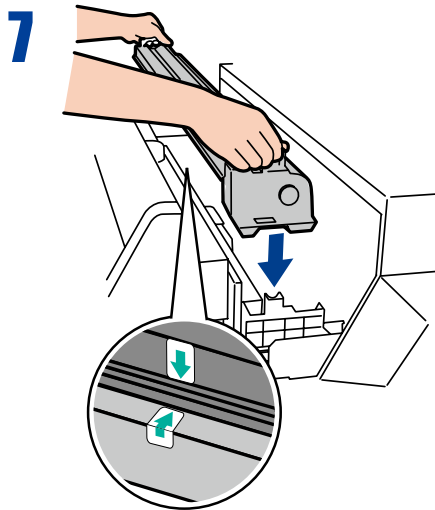
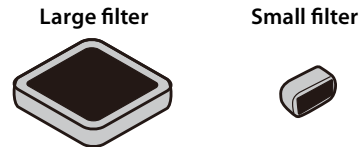
TIP

◇ To the used process cartridge, attach the protective case removed from a new process cartridge at the **step 8**. Then dispose of it according to the local regulations.



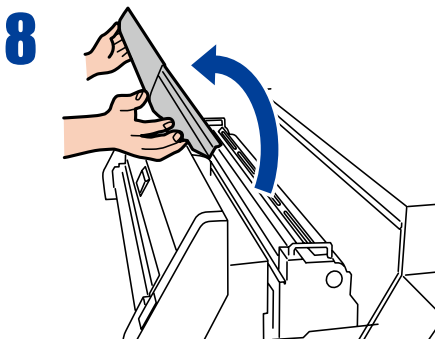
Remove a new process cartridge from its box.

Remove a new process cartridge from its box with the protective case still attached. Check that two types of replacement filters are included in the process cartridge box.



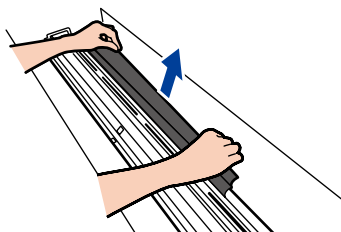
Install the new process cartridge.

With the protective case still attached, install the process cartridge in the Printer so that both of green arrow labels on the protective case and Printer are aligned.



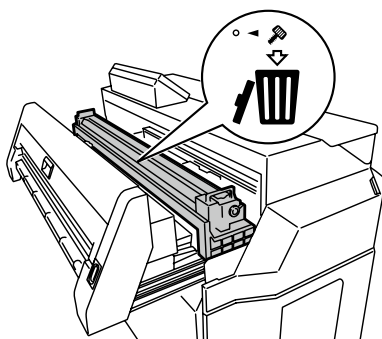
Remove the protective case of the process cartridge.

9



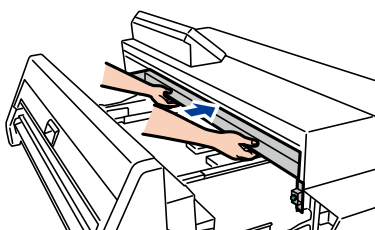
Remove the drum protective sheet.

10



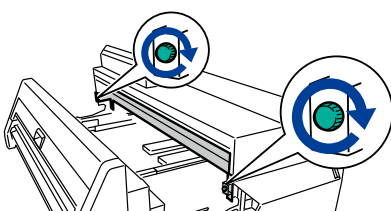
Rotate the knob at the center to remove it, and then dispose of it.

11



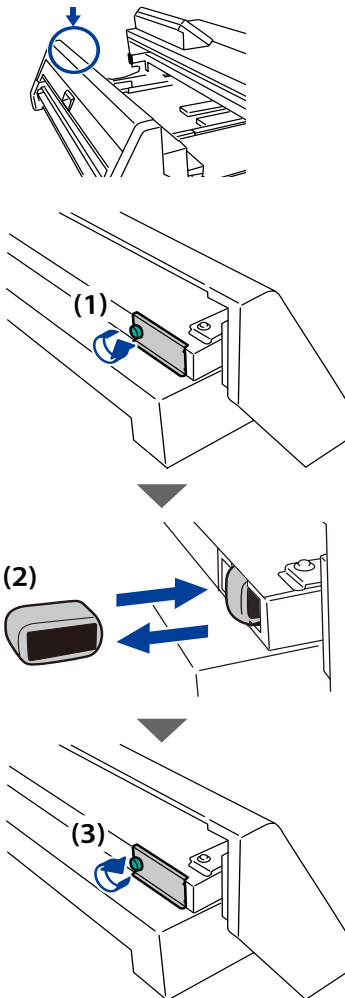
Close the process cartridge drawer.

12



By rotating the outer-side knobs, fix the process cartridge.

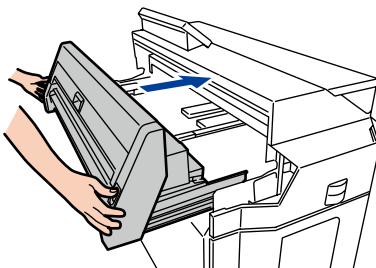
13



Replace the small filter installed at the left part of the fuser unit drawer.

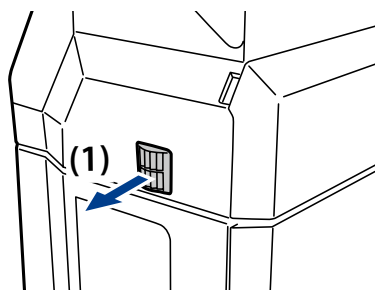
- (1) Turn the knob and remove the cover.
- (2) Replace the filter inside.
- (3) Reinstall the cover.
- (4) Replace the small filter on the other side following the same procedure.

14



Close the fuser unit drawer.

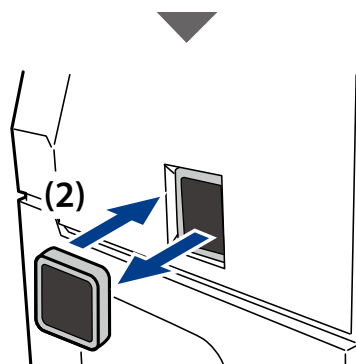
15



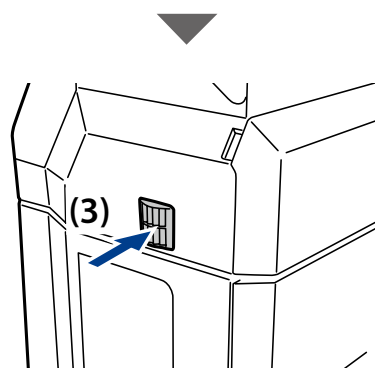
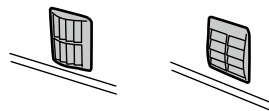
Replace the large filter.

Pull out the large filter toward you, and remove it. Then install the large filter contained in the process cartridge box.

- (1) On the left side of the Printer, pull out the filter cover towards you, and remove it.
- (2) Replace the large filter inside.
- (3) Reinstall the filter cover.

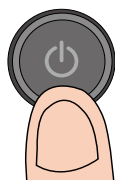


TIP ◇ Install the filter cover in any direction.



TIP ◇ Dispose of the two removed filters according to the local regulations.

16



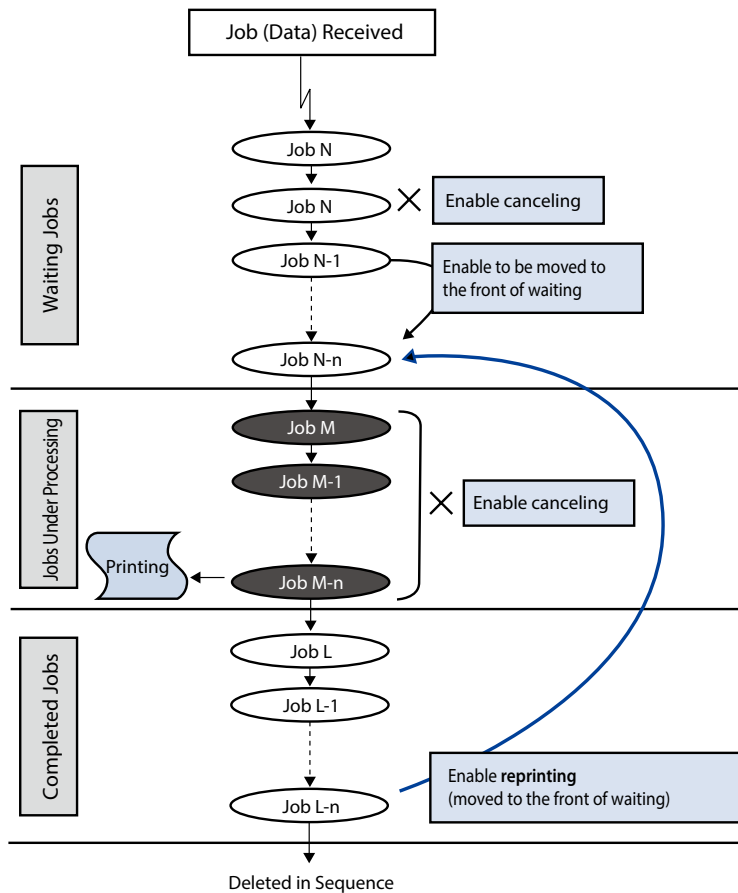
By pressing the POWER button on the operation panel, turn the Printer on.

Job Operation

The Printer identifies each received data and scanned data as a job, which means they are the equivalent of the files used for data transmission. On the Printer's job operation, a job is equal to a file.

However, a drawing is not always equal to a job, as sometimes one job is comprised of two drawings or more.

Through the operation panel or the Web functions (📖 [page 75](#)), the job operation enables you to check a print job status, change a print job order, and reprint a completed job.



TIP

- ◇ To be able to display and manipulate completed jobs, **Save/Delete Complete Job** in the system settings must be set to **Save**. This parameter is set to **Delete** by default. See 📖 [page 108](#) for more details.

◆ Printing Pause and Cancellation

During continuous printing of multiple jobs, press **MENU** to temporary pause the job printing. However, the printing may continue for up to 5 jobs after the menu screen is displayed. Press either of **PRINT**, **COPY**, **SUBMIT**, or **SCAN** to exit the menu mode and continue printing.

During printing, press **STOP** to cancel the page currently being printed.

◆ Handling Print Jobs

Press **Job** on the print mode top screen to display the print job screen.

The following operations can be performed from the print job screen.

- Changing printing order and cancelling waiting jobs
- Cancelling processing jobs
- Deleting completed jobs

Web Functions

With a Web browser, the following Printer functions are remotely operated from a host computer.

To operate these functions, the IP address of the Printer must be set in advance.

Also, Cookies and JavaScript must be enabled in the Web browser. For the setting method, see Help in the host computer's browser (or operating system).

◆ Functions

(1) Printer status display function

Enables the Printer status to be checked on the host computer's screen.

With this function, the Printer's job progress and error status are checked remotely.

(2) Setup browsing and changing function

Enables settings on the Printer, such as the print parameters, to be browsed or edited on the host computer's screen.

(3) Job control function

Enables detailed job information to be checked on the host computer's screen. Also enables the finished print job to be reprinted.

(4) Remote maintenance function

Enables the job history and past error history to be checked if a problem occurs. Also enables the system firmware to be updated.

(5) User registration function

Enables user registration when user authentication is used.

(6) Submission destination preset function

Enables presetting of submission destinations for Submit to folder and printer submission. When presetting using Web functions, submission destination names can be registered in multiple languages. Preset submission destinations can be used as PDC submission destinations as well.

(7) Image browsing, acquisition, and deletion in the submission box **MF**

Enables the browsing, acquisition, and deletion of image data stored in the submission box of the Printer.

(7) Image browsing, acquisition, and deletion in the PDC box

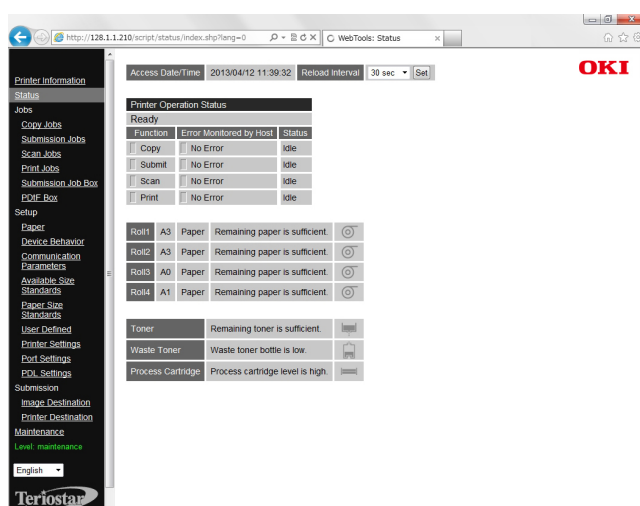
Enables the browsing, acquisition and deletion of image data stored in the PDC box of the Printer. Starting the Web Functions

1 Perform the following Printer preparations.

- (1) Start up the Printer by turning on the power.
- (2) Check the IP address setting. (If the IP address has not been set, set it by following the guidance displayed during startup.)
- (3) Also perform any Ethernet parameter settings as required.

2 Open the Web browser.

- (1) Install a Web browser on the host computer.
Microsoft Internet Explorer Ver. 6.0 or higher
- (2) Open the Web browser.
- (3) Enter "http://(IP address set on the Printer)/" in the address field, and press **ENTER**.



Cleaning the Exterior

If the Printer exterior becomes dirty, soak a soft cloth in water or a neutral detergent diluted with water. Wring the cloth thoroughly, and then wipe the Printer.



Warning

- ◆ Never use volatile solvents such as thinner, benzene, or alcohol.

Using Paper from a New Size Standard

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

Chapter
6

Troubleshooting

Appendix

This Printer supports the paper of the following size standards.

- A series
- ARCH series
- ANSI series
- 30×42 series
- MAP series
- DIN series
- User Defined series

The Printer's factory default setting is A series.

Check the size standard currently specified on your Printer in **Available Size Standards** (📖 page 104). (The size standard set to On is activated.)

This section describes the procedure to add a new size standard. The following is described taking ANSI series as an example, and the same procedure is applied to the other size standards. For user defined series, see **Using Paper from a User Defined Series** (📖 page 80).

(1) Set the available size standards

In **Available Size Standards** (📖 page 104), set **ANSI series** to **On**.

Note

- ◆ It is not possible to set all the size standards to Off.
- ◆ When the **Available Size Standards** setting is changed, the Printer restarts.

(2) Set the paper size standards

The rolls available in the ANSI series are 34 inches, 22 inches, 17 inches, and 11 inches. Set the roll you will actually use to **On** in **Paper Size Standards** (📖 page 105). You are recommended to set all unrequired roll widths to Off.

Note

- ◆ It is not possible to set all the paper size standards in the same size standard to Off
- ◆ When the **Paper Size Standards** setting is changed, the Printer restarts.

(3) Set the roll

Set the ANSI series roll into the roll paper drawer. For the roll paper installation method, see [page 46](#).

(4) Set the paper menu

Set **Size Standard** to **ANSI series** for the roll paper drawer in which you set the ANSI series roll ([page 87](#)).

(5) Set up the PDL

In the PDL setup for the data transmission port, set **Size of Automatically Supplied Paper** to **ANSI series** ([page 120](#)).

(6) Unexpected operation

If the set series does not operate as expected, check the settings again from (1) to (5).

Using Paper from a User Defined Series

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

Chapter
6

Troubleshooting

Appendix

The Printer supports the following user defined series rolls.

Standard-size printing cannot be performed with user defined series. All printing is actual length printing.

279.4 mm (11 inches) to
914.4 mm (36 inches)

Default values:

User Defined 0 = 914 mm (35.98 inches)

User Defined 1 = 620 mm (24.41 inches)

User Defined 2 = 450 mm (17.72 inches)

User Defined 3 = 310 mm (12.20 inches)

This section describes the procedure for operating with a user defined series.

(1) Set the available size standards

In **Available Size Standards** (📖 page 104), set **User Defined** to **On**.

Note

- ◆ When this setting is changed, the Printer restarts.

(2) Set the user defined size

In the user defined series, four paper widths from user defined 1 to 4 are available.

In **User Defined Size**, set the width for each (📖 page 106).

Note

- ◆ When this setting is changed, the Printer restarts.

(3) Set the paper size standards

Set the roll you intend to use to **On** in **Paper Size Standards** (📖 page 105). You are recommended to set all unrequired rolls to **Off**.

Note

- ◆ It is not possible to set all the user defined series rolls to **Off**.
- ◆ When this setting is changed, the Printer restarts.

(4) Set the roll

Set the user defined series roll into the roll paper drawer. For the roll paper setting method, see [page 46](#).

(5) Set the paper menu

Set **Size Standard** to **User Defined** for the roll paper drawer in which you set the roll ([page 87](#)).

(6) Set up the PDL

In the PDL setup for the data transmission port, set **Size of Automatically Supplied Paper** to **User Defined** ([page 120](#)).

Also, when performing user defined operations with the printer driver, set **Printer Drive** to **User Defined** ([page 137](#)).

(7) Unexpected operation

If the user defined series does not operate as expected, Again check the settings (1) to (6).

Restricting the Available Rolls

To simplify the Printer operation, you are recommended to restrict the roll paper sizes required for operation. The following explains the procedure when you intend to operate only with the A0 and A1 rolls.

(1) Set the paper size standards

Set the roll that you intend to use to **On** in **Paper Size Standards** (📖 page 105).

Set the rolls that you will not use to **Off**.

For example, if you want to operate only with the A0 and A1 rolls:

A0 Roll = On

A1 Roll = On

A2 Roll = Off

A3 Roll = Off

Set as above.

(2) No paper or paper runs out

If paper runs out while the Printer is printing, a message prompting paper setting may be displayed on the operation panel. However, prompts are not displayed for rolls set to **Off** in **Paper Size Standards**.

(3) Optimal mode

When **Paper Supply Mode** is set to **Optimal** (📖 page 120), the Printer automatically selects the roll to produce the least wasted paper among the rolls set to **On** in **Paper Size Standards**. are available. When the roll that will produce the least wasted paper is not set in the Printer, a message prompting paper setting is displayed on the operation panel.

Chapter 3

Menu Functions

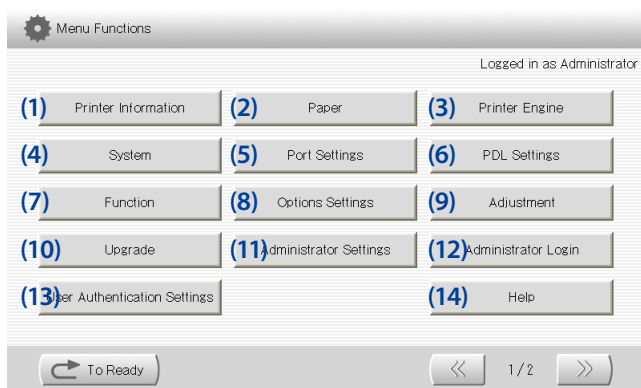
This chapter explains the menu functions of the Printer.

Chapter Contents

▼ Menu Mode Screen	84
▼ Paper Menu.....	87
▼ Printer Engine Menu	89
▼ System Menu	93
▼ Ports Settings Menu.....	113
▼ Setup Items in PDL Settings Menu.....	117
▼ Function Menu	153
▼ Options Settings Menu.....	156
▼ Submission Destination Setting Menu	157
▼ Adjustment Menu.....	161
▼ Smart card settings Menu.....	162
▼ Import/Export Menu.....	163
▼ Date and Time Settings Menu.....	169
▼ Delete HDD Data Menu	170

Menu Mode Screen

Press **MENU** to display the menu screen.



(1) Printer Information Menu

The Printer serial number, firmware version, and other information are displayed.

(2) Paper Menu

(📖 page 87)

(3) Printer Engine Menu

(📖 page 89)

(4) System Menu

(📖 page 93)

(5) Ports Settings Menu

(📖 page 113)

(6) PDL Settings Menu

(📖 page 117)

(7) Function Menu

(📖 page 153)

(8) Options Settings Menu

Optional products' license key is entered.

(📖 page 156)

(9) Adjustment Menu

(📖 page 161)

(10) Upgrading Menu

Upgrades the Printer's firmware. For details, contact your dealer or nearest service representative.

(11) Administrator Settings Menu

(12) Administrator Login Menu

(13) User Authentication Settings Menu

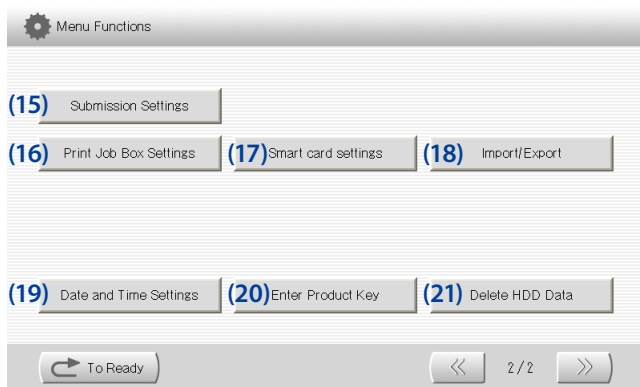
See **Chapter 5 Authentication Function**.

(📖 page 185)

(14) Help Menu

The following procedures are displayed on the screen.

- Replace the Toner Cartridge
- Replace the Waste Toner Bottle
- Load Roll Paper
- Clear Paper Jams
- Clear Original Jams



(15) Submission Settings Menu

(📖 page 157)

(16) Print Job Box Settings Menu

See **Chapter 4 Print Job Box Function**
(📖 page 171)

(17) Smart card settings Menu

(📖 page 162)

This menu is displayed only when the smart card option is enabled.

(18) Import/Export Menu

(📖 page 163)

(19) Date and Time Settings Menu

(📖 page 169)

(20) Enter Product Key Menu

This menu is used to enter the product key.

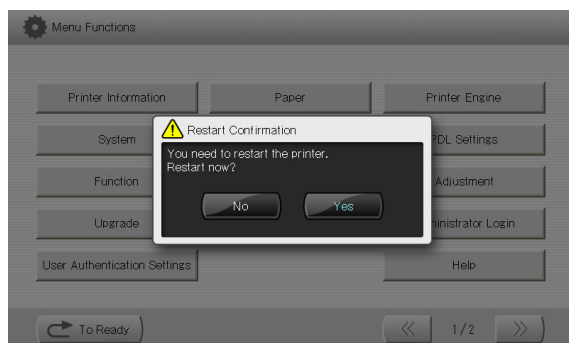
User cannot enter product keys.
Please do not change this setting.

(21) Delete HDD Data Menu

(📖 page 170)

◆ Confirming Printer Restart

When setting changes require the printer to restart, the following printer restart confirmation screen appears after the **Standby** button is pressed and the menu top screen is exited.



To continue configuration, press **No**.

When configuration is complete, press **Yes** to restart printer.

Setting changes are not applied until the printer is restarted.

Paper Menu

In the Paper menu, set the roll paper type and size standard.

Note

- ◆ The screen displays the paper size standards to be selected only when they are activated in Available Size Standards in the system parameters.

◆ Rolls 1 to 4 Paper Types

Sets the type of paper to use.

<Parameter by selecting options> ■: Default value

■ Paper	Plain paper
Tracing	Tracing paper
Film	Matte film

◆ Rolls 1 to 4 Size Standards

Roll paper with the following widths can be installed in the Printer.

On installing the roll paper in the roll feed unit, the paper size standard selected at this setting must be specified for each roll paper drawer.

Auto

When two rolls of different size standards are installed in a roll feed unit and Auto is selected, the Printer identifies their roll widths automatically. If the Printer does not identify the widths correctly, change the setting to the size standard you intend to use.

When you intend to install the rolls of a specific size standard, you are recommended to specify the size standard rather than Auto.

A series

A0 (841 mm (33.11 inches)), A1 (594.5 mm (33.11 inches)),
A2 (420.5 mm (16.56 inches)), A3 (297.3 mm (11.70 inches))

ARCH series

36 in. (914 mm), 24 in. (609.6 mm), 18 in. (457.2 mm),
12 in. (304.8 mm)

ANSI series

34 in. (863.6 mm), 22 in. (558.8 mm), 17 in. (431.8 mm),
11 in. (279.4 mm)

30x42 series

30 in. (762.0 mm), 15 in. (381.0 mm)

MAP series

700 mm (27.56 inches), 500 mm (19.69 inches)

DIN series

707 mm (27.83 inches), 500 mm (19.69 inches)

User Defined series

<Parameter by selecting options> ■: Default value

Auto	ANSI series	DIN series
■ A series	30x42 series	User Defined series
ARCH series	MAP series	

Note

- ◆ As options, the Printer displays only the paper size standard set to On in Available Size Standards in the System menu.

Printer Engine Menu

The Printer Engine menu specifies the operation conditions for the Printer engine.

◆ Power Save Time

The parameter specifies the maximum idle time before entering the power save mode.

<Parameter by selecting options> ■: Default value

15 minutes

Enters power save mode if the Printer is not operated for 15 minutes.

30 minutes

Enters power save mode if the Printer is not operated for 30 minutes.

■ 60 minutes

Enters power save mode if the Printer is not operated for 60 minutes.

90 minutes

Enters power save mode if the Printer is not operated for 90 minutes.

235 minutes

Enters power save mode if the Printer is not operated for 235 minutes.

- After printing is completed, the Printer enters power save mode automatically when the data waiting status reaches the set time.
- The power save mode is canceled automatically when the Printer receives the data.
- The power save mode is canceled automatically when the Printer is accessed with a browser or SNMP manager.
- To cancel the power save mode, press POWER SAVE while the Printer is in the power save mode.

◆ Top Cut Timer for Roll n (n = 1 to 4)

Sets the data waiting time after which the end of the roll paper is cut automatically. This is performed when data is received for printing after the data waiting status has continued for a while.

<Parameter by selecting options> ■: Default value

■ Off	Does not cut.
30 minutes	Cuts the paper if the printer is not operated for 30 minutes.
1 hour	Cuts the paper if the printer is not operated for 1 hour.
2 hours	Cuts the paper if the printer is not operated for 2 hours.
4 hours	Cuts the paper if the printer is not operated for 4 hours.
1 minute	Cuts the paper if the printer is not operated for 1 minute.
5 minutes	Cuts the paper if the printer is not operated for 5 minutes.
10 minutes	Cuts the paper if the printer is not operated for 10 minutes.

◆ Top Cut at Door Open

With Top Cut at Door Open, the Printer can cut the top of the roll paper automatically when printing the first data job after the drawer for rolls 1 and 2 or the drawer for rolls 3 and 4 is opened or closed. The cut width is 400 mm (15.75 inches).



TIP ◇ With this function, the top of the roll paper is cut with the printer's cutter. Set for a clean cut on the top of the paper of the output page.

<Parameter by selecting options> ■: Default value

■ Off	Does not cut the paper.
On	Cuts the paper.

◆ Print Density

Adjusts the print density.

<Parameter by selecting options> ■: Default value

- Low
- Slightly Low
- Normal
- Slightly High
- High

◆ Humidity for Tracing Paper

The parameter specifies the print mode for tracing paper.

<Parameter by selecting options> ■: Default value

- Normal Specifies the print mode for the tracing paper printed under the normal environmental condition.
- High Humidity Specifies the print mode for the tracing paper printed under the high-humidity environmental condition.

◆ Power Saving in Standby

This parameter specifies how energy is saved when the Printer is in standby.

When the parameter is set to **Medium** or **High**, power consumption can be reduced even without entering the power save mode.

However, when printing, warm-up time may be longer and the Printer may not be able to print immediately.

<Parameter by selecting options> ■: Default value

- Off Power saving is low, but warm-up time is short.
- Medium Power saving is fairly high, but warm-up time is fairly long.
- High Power saving is high, but warm-up time is long.

◆ Output Report to Tray

This parameter specifies where to output (A3 tray or outlet slot) the reports, such as the Print System Settings.

<Parameter by selecting options> ■: Default value

Off

Outputs to the outlet slot.

■ On

Outputs to the Output Tray.

◆ Print Reports with Other Paper

This parameter specifies whether or not to print with other large paper roll in case reports, such as the Print System Settings, are output and no A3 paper roll is installed to the printer.

<Parameter by selecting options> ■: Default value

■ On

Prints with other large paper roll.

Off

Print is not performed with a different paper and an error specifying that there is no more paper is displayed.
Load an A3 paper roll to print the report.

System Menu

After settings are changed in this menu, the Printer restarts (📖 page 86) on exiting Menu Mode.

If there are waiting jobs, only browsing is available.

◆ Communication Parameters

The Printer is equipped with an Ethernet interface that enables the following functions.

- (1) Receiving, analyzing, and printing PDL data
- (2) Sending scanned data to external computers
- (3) Controlling the Printer scan function from an external computer

In Communication Parameters, select the various communication settings for functions (1) to (3) above.

The Printer can use the following connection protocols.

IPv4

IPv6

Both protocols can be used at the same time.

IPv4 is always enabled.

IPv6 can be enabled or disabled. It is disabled by default.

■ Network Settings

● Common Settings

• IP Address

Sets the IP address (Internet address) of the Printer.

This parameter is the same as the parameter that is set in the installation operation.

<Parameter by entering numbers>

0.0.0.0 to 255.255.255.255

Default value: 192.168.100.100

- **Subnet Mask**

Sets the subnet mask of the printer's network.

<Parameter by entering numbers>

0.0.0.0 to 255.255.255.255

Default value: 255.255.255.0

- **DNS Server 1 (IPv4/IPv6)**

- **DNS Server 2 (IPv4/IPv6)**

Sets the DNS server addresses (IPv4/IPv6). The DNS Server 1 is prioritized over the DNS Server 2.

- This setting is not required when, at the submission function, the destination is specified with an IP address.

<Parameter by entering characters in IPv4/IPv6 format>

0 to 63 characters

- **Host Name**

Sets the Printer's host name.

<Parameter by entering characters>

0 to 15 characters

- **Windows Domain**

Sets the Windows domain name of the Printer.

<Parameter by entering characters>

0 to 15 characters

- **Connection Speed**

Sets the communication speed.

<Parameter by selecting options> ■: Default value

■ **Auto**

Automatically recognizes 1000BASE-T, 100BASE-TX, or 10BASE-T.

1000

Sets to 1000BASE-T.

100

Sets to 100BASE-TX.

10

Sets to 10BASE-T.

- **Connection Type**

Sets the communication method.

<Parameter by selecting options> ■: Default value

■ Auto

Full

Half

- **HTTP Port Address**

Sets the HTTP port for the Web function.

<Parameter by entering numbers>

0 to 65535

Default value: 80

- **SNMP**

Sets the SNMP operation. When the setting is On, SNMP is enabled. Note that the SNMP community name can be set via the Web.

<Parameter by selecting options> ■: Default value

Off

■ On

- **SNMP Community**

The SNMP community name can be set.

The default name is public.

Up to 63 characters can be used for this setting.

- **SNMP Version**

Sets the version of the SNMP to use.

<Parameter by selecting options> ■: Default value

Version 1

■ Version 2

- **IPv6 Connection**

Sets whether to use IPv6 connection.

<Parameter by selecting options> ■: Default value

■ Off

IPv6 is not used. Set this parameter to **Off** when using only IPv4 connection.

On

IPv6 is used.

- **IPv6 Address Manual Setting**

Sets whether to set manually the IPv6 address on the Printer.

<Parameter by selecting options> ■: Default value

■ Off

The IPv6 address is not set manually on the Printer. The address is generally not set manually in environments with automatic IPv6 address configuration.

On

The IPv6 address is set manually on the Printer.

- **IPv6 Address**

Sets the IPv6 address when IPv6 Address Manual Setting is **On**.

<Parameter by entering characters in IPv4/IPv6 format>

0 to 63 characters

- **Prefix Length**

Sets the prefix length when IPv6 Address Manual Setting is **On**.

<Parameter by entering numbers>

0 to 128

Default value: 64

• DHCPv6

Set the options when the Printer is installed in an environment with automatic IPv6 address distribution from the DHCP server.

<Parameter by selecting options> ■: Default value

■ RA

The IPv6 address is obtained automatically using RA (router advertisement). This is the parameter generally used.

On

The IPv6 address is forcibly obtained from the DHCP server.

Off

The IPv6 address is not automatically obtained from the DHCP server.

● Routing Table

Sets the routing table for the Printer. This is used when connecting the Printer with a host on a different network.

• Gateway Address 01 to 10

Sets the IP address of the router.

<Parameter by entering numbers>

0.0.0.0 to 255.255.255.255

Default value:
0.0.0.0 (not set)

• Network Address 01 to 10

Sets the network address.

<Parameter by entering numbers>

0.0.0.0 to 255.255.255.255

Default value:
0.0.0.0 (not set)

- The network address set to 0.0.0.0 specifies the default routing

- **Subnet Mask 01 to 10**

Sets the subnet mask of the routing destination network.

<Parameter by entering numbers>

0.0.0.0 to 255.255.255.255

Default value:
0.0.0.0 (not set)

- This parameter is not applicable when default routing is set.
- This parameter is applicable when the destination network is set in the network addresses of the routing table.

- **IPv6 Network Address 01 to 02**

Sets the IPv6 network address.

<Parameter by entering characters in IPv4/IPv6 format>

0 to 63 characters

- **Prefix Length 01 to 02**

Sets the prefix length of the routing destination IPv6 network.

<Parameter by entering numbers>

0 to 128

Default value: 64

- **IPv6 Gateway Address 01 to 02**

Sets the IP address of the IPv6 router.

<Parameter by entering characters in IPv4/IPv6 format>

0 to 63 characters

- **SNMP TRAP**

Settings regarding SNMP TRAP are performed with this parameter.

The TRAP function is enabled when using the print function.

- **TRAP 1 to 5**

- **Agent Computer**

Sets the IP address of the agent computer to return a trap.

This setting is not required when, at the submission function, the destination is specified with an IP address.

<Parameter by entering numbers>

0.0.0.0 to 255.255.255.255

Default value:

0.0.0.0

The default value indicates that no IP address is registered, which is the same as the trap Off.

- **Error**

Specifies a trap to be sent at an error related to the engine. However, the error does not include the technical call errors.

The destination to send the trap at an error is the trap agent computer set in the previous item, TRAP ** Agent Computer.

However, note that this setting is disabled even if set to On when the TRAP Agent Computer is not specified.

<Parameter by selecting options> ■: Default value

■ On

Off

- **Job**

Specifies a trap when a printing job is completed. When this parameter is not set to Off, the trap condition is specified with TRAP **:IP address or TRAP **:IP operation.

<Parameter by selecting options> ■: Default value

■ Off

On by IP Address

On by Port

- **IP Address**

Enabled when **On by IP Address** is selected in operation TRAP ** job. The setting can be changed. If the IP address specified here matches the IP address of the job transmission destination host, a trap is sent to the TRAP Agent Computer. Note that when this setting is 0.0.0.0, a trap is sent for all the received jobs.

<Parameter by entering numbers>

0.0.0.0 to 255.255.255.255

Default value:

0.0.0.0

- **Port**

Enabled when **On by Port** is selected in operation TRAP ** job. The setting can also be enabled. After printing is completed, a trap is sent to the TRAP Agent Computer for all jobs sent to the Printer port that is specified here.

<Parameter by selecting options> ■: Default value

■ All

Port **

** : Port 01 to Port 20

- **ActiveDirectory Settings (option)**

- **DC Addresses 1 to 3**

Specifies the DC (Domain Controller) address (IPv4/IPv6) when Active Directory (option) is used.

<Parameter by entering characters>

Up to 255 characters

- **DC Access Login Name**

Specifies the DC (Domain Controller) login name.

<Parameter by entering characters>

Up to 63 characters

- Users with Active Directory access rights do not need to have domain administrator privileges.

- **DC Access Password**

Specifies the DC (Domain Controller) password.

<Parameter by entering characters>

Up to 63 characters

- Users with Active Directory access rights do not need to have domain administrator privileges.

- **Account Verification**

Specifies whether or not the user logs in Active Directory.
In principle, this setting should not be changed.

<Parameter by selecting options> ■: Default value

■ Logged In

Logs in Active Directory.

Not Logged In

Does not log in Active Directory.

● E-mail Scan Data Settings **MF**

Sets the parameters regarding e-mailing of scan data.

Note

- ◆ To use e-mailing of scan data, the user authentication parameter **Submission Authentication** must be set to **On**, and an e-mail address must be set in **User Information** under user registration.

● SMTP Address

Sets the address of the SMTP server.

<Parameter by entering characters>

Up to 255 characters

● SMTP Port

Sets the SMTP port number.

<Parameter by entering numbers>

1 to 65535

Default value: 25

● With SMTP Authentication

Sets whether or not to use the SMTP authentication function.

<Parameter by selecting options> ■: Default value

On

SMTP authentication function is used.

■ Off

SMTP authentication function is not used.

● SMTP User Name

● SMTP Password

Sets the user name and the password for the SMTP server when **With SMTP Authentication** is set to **On**.

● Maximum E-mail Data Size

Sets the maximum size of the attached file.

<Parameter by selecting options> ■: Default value

1 to 4096

Default value: 25 Unit: MB

- **Sender's E-mail Address**

Sets the e-mail address of the sender.

<Parameter by selecting options> ■: Default value

■ Same as Receiver's

The e-mail address of the user who scanned the document is set as the sender's e-mail address.

Custom

The address defined in **Custom Sender's E-mail Address** is set as the sender's e-mail address.

- **Custom Sender's E-mail Address**

Sets the e-mail address when **Sender's E-mail Address** is set to **Custom**.

<Parameter by entering characters>

Up to 127 characters

- **Subject**

Sets the e-mail subject.

<Parameter by entering characters>

Up to 40 characters

- **Time Zone for E-mail Transmission**

Sets the time zone of the e-mail.

The time zone of Japan is + 09 00.

Left box <Parameter by selecting options> ■: Default value

■ +

-

Middle box <Parameter by selecting options>

00 to 14

Default value: 09

Right box <Parameter by selecting options> ■: Default value

■ 00

15

30

45

■ Scanner **MF**

● TWAIN Port Address

Sets the command port (TCP) for TWAIN driver connection.

<Parameter by entering numbers>

0 to 65535

Default value: 30000

● TWAIN Data Port Address

Sets the data port (TCP) for when the TWAIN driver is used for connection.

<Parameter by entering numbers>

0 to 65535

Default value: 32000

● TWAIN Connection Timeout

Sets the timeout period if the response from the driver stops during TWAIN driver connection. When the set time elapses, the TWAIN mode is exited.

<Parameter by selecting options> ■: Default value

■ **30 minutes**

Performs timeout after 30 minutes.

60 minutes

Performs timeout after 60 minutes.

90 minutes

Performs timeout after 90 minutes.

◆ Available Size Standards

Specifies the paper size standard for the Printer.

■ Various Paper Series

Specifies the paper size standard from the following.

A series, ARCH series, ANSI series, 30×42 series, MAP series, DIN series, User Defined series

A series Rolls	A0 (841 mm), A1 (594.5 mm), A2 (420.5 mm), A3 (297.3 mm)
ARCH series Rolls	36 inches (914 mm), 24 inches (609.6 mm), 18 inches (457.2 mm), 12 inches (304.8 mm)
ANSI series Rolls	34 inches (863.6 mm), 22 inches (558.8 mm), 17 inches (431.8 mm), 11 inches (279.4 mm)
30x42 series Rolls	30 inches (762.0 mm), 15 inches (381.0 mm)
MAP series Rolls	700 mm (27.56 inches), 500 mm (19.69 inches)
DIN series Rolls	707 mm (27.83 inches), 500 mm (19.69 inches)
User Defined series Rolls	

<Parameter by selecting options> ■: Default value

■ Off

On

Note

- ◆ The default value varies depending on the the Printer initialization category.
- ◆ It is not possible to set all these parameters to Off.
- ◆ When these parameters are changed from On to Off, the following related parameters may also be initialized.
 - Size Standard in the Paper menu
 - Size of Automatically Supplied Paper in PDL Setting
 - Original size standard at copy setting
 - Original size standard at submission setting

◆ Paper Size Standards

Sets the roll sizes for each size standard used in the Printer.

■ Various Paper Sizes for the Paper Series

Specifies the paper sizes and the paper size standards below to be used.

A series, ARCH series, ANSI series, 30×42 series, MAP series,
DIN series, User Defined series

<Parameter by selecting options> ■: Default value

■ Off

On

Note

- ◆ The default value varies depending on the the Printer initialization category.
- ◆ The size standard is displayed only when it is set to On in Available Size Standard in the System menu.
- ◆ It is not possible to set all the items in the same series to Off at the same time.
- ◆ In a same size standard, it is not possible to set all the sizes to Off at the same time.

◆ User Defined Size

Sets the roll sizes for the user defined series used in the Printer.

- User Defined 1
- User Defined 2
- User Defined 3
- User Defined 4

<Parameter by selecting numbers>

**279.4 mm (11 inches) to
914.4 mm (36 inches)**

Default value:

User Defined 1 = 914 mm (35.98 inches)

User Defined 2 = 620 mm (24.41 inches)

User Defined 3 = 450 mm (17.72 inches)

User Defined 4 = 310 mm (12.20 inches)

Note

- ◆ The input range includes the following restrictions.
(Input value of the upper size -50 mm (-1.97 inches)) to (Input value of the lower size +50 mm (+1.97 inches))
The upper size refers to the size above the desired user defined size, and the lower size refers to the size below. For example, with user defined 2, the upper size is user defined 1, and the lower size is user defined 3.
Setting example:
With all user defined as their default values, the input range is as follows when changing the size of defined user 2 from 620 mm (24.41 inches) to another value.
864 mm (34.02 inches) to 500 mm (15.69 inches)
- ◆ If the values are set outside the input range mentioned above, the setting values of all the user defined sizes are initialized to their default value when the Printer restarts.
- ◆ This setting is available when User Defined series is set to ON in Available Size Standards.

◆ Printer Settings

Configures the settings regarding general operation of the Printer.

■ Common Setting

● Mode Transition Time

Sets the time until standby mode is entered if no buttons are operated.

<Parameter by selecting options> ■: Default value

30 seconds	Sets to 30 seconds.
■ 1 minute	Sets to 1 minute.
2 minutes	Sets to 2 minutes.
3 minutes	Sets to 3 minutes.
5 minutes	Sets to 5 minutes.
10 minutes	Sets to 10 minutes.
15 minutes	Sets to 15 minutes.

Note

- ◆ The time required to enter the standby mode from the menu mode screen does not depend on this parameter but is always set to 15 minutes.

● Language

Changes the message display on the screen.

<Parameter by selecting options> ■: Default value

■ English	Italiano	Русский
日本語	Français	Dutch (NL)
简体中文	Español	繁體中文
Deutsch	Português	

● Unit of Length

Changes the unit of length between mm and inches.

<Parameter by selecting options> ■: Default value

■ mm
Inch

● Save/Delete Complete Job

The parameter specifies if completed jobs should be saved or deleted. Select Save when you intend to reprint the completed job with the Web functions.

<Parameter by selecting options> ■: Default value

■ Delete	Delete completed jobs.
Save	Save completed jobs.

● Optional Folder

Your printer does not use this parameter. So always set the parameter to **Not Enabled**. With **Enabled**, the printer will not start correctly.

● PDC box retention period

Specifies the period jobs are stored in the PDC box.
Jobs are automatically deleted when the specified period expires.

<Parameter by selecting numbers>

1 to 199	Default value: 72 hours
----------	-------------------------

● Job Display Order

Specifies the display order of the print job list on the panel.

<Parameter by selecting options> ■: Default value

Chronological	Jobs are displayed in chronological order on the print job list screen.
■ Reverse Chronological	Jobs are displayed in reverse chronological order on the print job list screen.

● Job File Deletion Method

Sets the method to delete the job data on the HDD.

<Parameter by selecting options> ■: Default value

■ Delete w/o Overwriting	Job data is logically deleted.
Overwrite Once & Delete	Job data is overwritten once before being deleted.
Overwrite Thrice & Delete	Job data is overwritten three times before being deleted.

Note

- ◆ When this parameter is set to something other than Delete w/o Overwriting, it may be more difficult for the Printer to enter power save mode or it may take time before the Printer stops during shutdown.

● Warning Sound Notification

This parameter specifies whether or not to use warning sounds from a separate warning light.

*Contact your dealer or nearest service representative for more information about the compatible warning lights.

<Parameter by selecting options> ■: Default value

■ On

Sound notifications are used when an error occurs.

Off

Sound notifications are not used even when an error occurs.

■ Multifunction Settings MF

● Start Scanning

The parameter selects the scanning started:

- Automatically when an original is set; or
- With the START button pressed after an original is set.

<Parameter by selecting options> ■: Default value

■ Original Setting

Starts scanning automatically when an original is set.

Press START

Starts scanning when the **START** button is pressed after an original is set.

● Job box retention period

Specifies the number of days jobs are stored in the submission box. Jobs are automatically deleted when the specified period expires.

<Parameter by selecting numbers>

3 to 10

Default value: 3 days Unit: day

● Time to Start Scanning

Specifies the time from feeding original document to starting scanning.

<Parameter by selecting numbers>

0 to 10

Default value: One second Unit: second

■ Character entry settings

● Russian language

Specify whether to enable Russian language entry for the following setting items of the settings for character entry.

- Standard copy preset name
- Digital sorting preset name
- Submission destination name
- Submission box name
- Submission -> Shared path name
- Submission -> File name
- User registration -> User name

<Parameter by selecting options> ■: Default value

■ Off	Russian language entry is not available.
On	Russian language entry is available.

At the panel keyboard screen, Russian language entry can be enabled by pressing the  button.

■ Limit Printer's Functions

● Web Function

Enables or disables the Web function.

<Parameter by selecting options> ■: Default value

■ Available	The Web function can be used.
Not Available	The Web function cannot be used.

● FTP Reception

Enables or disables the FTP reception function.

<Parameter by selecting options> ■: Default value

■ Available	The FTP reception function can be used.
Not Available	The FTP reception function cannot be used.

● PDC

Enables or disables the Print Data Converter function.

<Parameter by selecting options> ■: Default value

■ Available

The Print Data Converter function can be used.

Not Available

The Print Data Converter function cannot be used.

● COPY MF

Enables or disables the copy function.

<Parameter by selecting options> ■: Default value

■ Available

The copy function can be used.

Not Available

The copy function cannot be used.

● SUBMIT MF

Enables or disables the submission function.

<Parameter by selecting options> ■: Default value

■ Available

The submission function can be used.

Not Available

The submission function cannot be used.

● Submit to Folder MF

Enables or disables the Submit to folder function.

<Parameter by selecting options> ■: Default value

■ Available

The Submit to folder function can be used.

Not Available

The Submit to folder function cannot be used.

● E-mail Scan Data MF

Enables or disables the E-mail scan data function.

<Parameter by selecting options> ■: Default value

■ Available

The E-mail scan data function can be used.

Not Available

The E-mail scan data function cannot be used.

● Submit to USB Drive MF

Enables or disables the Submit to USB drive function.

<Parameter by selecting options> ■: Default value

■ Available

The Submit to USB drive function can be used.

Not Available

The Submit to USB drive function cannot be used.

● Submit from Thumbnail MF

Enables or disables the Submit from thumbnail function.

<Parameter by selecting options> ■: Default value

■ Available

The Submit from thumbnail function can be used.

Not Available

The Submit from thumbnail function cannot be used.

● Submit Print Job MF

Enables or disables the Submit print job function.

<Parameter by selecting options> ■: Default value

■ Available

The Submit print job function can be used.

Not Available

The Submit print job function cannot be used.

● Submission Job Box MF

Enables or disables the Submission job box function.

<Parameter by selecting options> ■: Default value

■ Available

The Submission job box function can be used.

Not Available

The Submission job box function cannot be used.

● Scan MF

Enables or disables the Scan function.

<Parameter by selecting options> ■: Default value

■ Available

The Scan function can be used.

Not Available

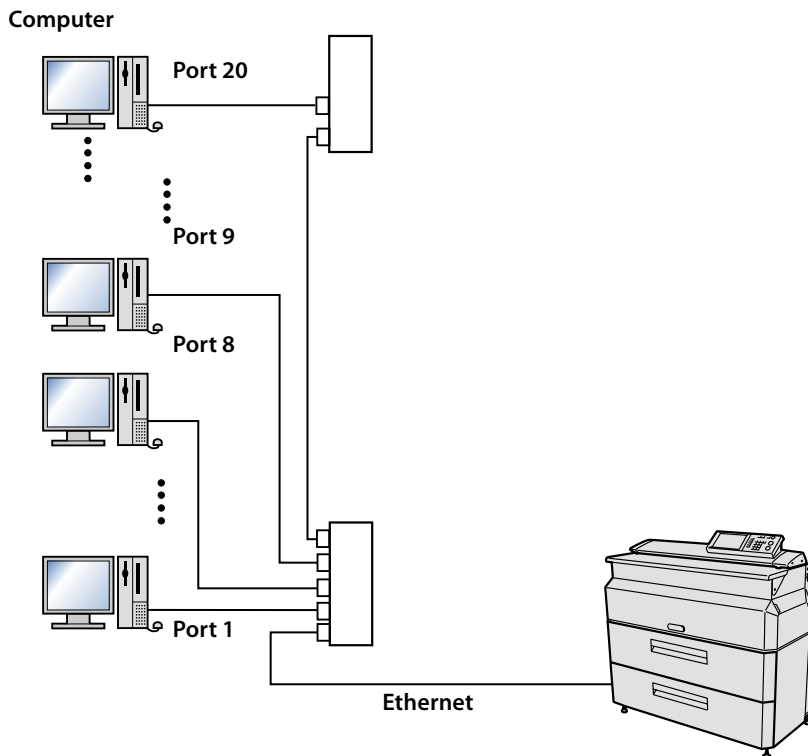
The Scan function cannot be used.

Ports Settings Menu

In the ports setting menu, set the communication protocol and the PDL used for each port.

The Printer is equipped as standard with an Ethernet interface connector through which 20 logical ports can be used.

The settings for the protocol of each port are set in this menu.



Note

- ◆ The system is reset after the setting in this menu is changed.
- ◆ If the Printer contains waiting jobs, only browsing is available.
- ◆ A total of 20 ports is available, including XPT, LPD, and FTP.

◆ Common Settings

■ Connection Timeout

Select a wait time to close the TCP port. The Printer starts counting the time when the Printer is not receiving data during the data transmission.

<Parameter by selecting options> ■: Default value

Off	Connection Timeout is not enabled.
5 minutes	Sets 5 minutes.
10 minutes	Sets 10 minutes.
15 minutes	Sets 15 minutes.
■ 30 minutes	Sets 30 minutes.

■ LPD Disconnection

Sets the LPD disconnection process.

In principle, this setting should not be changed.

<Parameter by selecting options> ■: Default value

■ With Terminating Packet	Waits for the terminating packet from the host.
After Receiving All Data	Does not wait for the terminating packet from the host.

◆ Port 1 to 20

■ Protocol selection

Select used Internet ports and protocols.

Up to 20 ports can be selected.

<Parameter by selecting options> ■: Default value

■ Off	Not set
FTP	FTP Protocol
LPD	LPD Protocol
XPT	XPT Protocol

■ HPGL

<Parameter by selecting options> ■: Default value

Off	The port does not accept HP-GL format command.
■ On	The port accepts HP-GL format command.

■ D-SCAN

<Parameter by selecting options> ■: Default value

Off

The port does not accept D-SCAN format command.

■ On

The port accepts D-SCAN format command.

■ TIFF

<Parameter by selecting options> ■: Default value

Off

The port does not accept TIFF format command.

■ On

The port accepts TIFF format command.

■ CALS

<Parameter by selecting options> ■: Default value

Off

The port does not accept CALS format command.

■ On

The port accepts CALS format command.

■ XPT Port

Sets the XPT port number (value).

<Parameter by entering numbers>

0 to 65535

Default value: 91xx

xx: Port number

- Do not use the same port number in multiple ports.
- Do not use 0 to 1023, because they are reserved numbers.

■ Printer Name

Sets the LPD Printer name (text).

<Parameter by entering characters>

1 to 15 characters

Default value: LPxx

xx: Port number

- The available characters are A to Z, 0 to 9, - (hyphen), and _ (underscore).
- Case is not distinguished.
- Do not use the same Printer name in multiple ports.

■ User Name

Sets the FTP user name (text).

<Parameter by entering characters>

3 to 15 characters Default value: FTPxx xx: Port number

- The available characters are A to Z, 0 to 9, - (hyphen) , and _ (underscore).
- Case is not distinguished.
- Do not use the same user name in multiple ports.

■ FTP password

Sets the FTP Password (text).

<Parameter by entering characters>

3 to 15 characters Default value: FTPxx xx: Port number

- The available characters are A to Z, 0 to 9, - (hyphen), and _ (underscore).
- Case is not distinguished.
- The specified password is displayed as *****.

■ Host character encoding

Set this parameter to indicate the file name on items such as a file created with Print Data Converter, job log, and job screen when:

- the print data is sent; and
- the connection method does not employ a printer driver.

<Parameter by selecting options> ■: Default value

■ Not Specified

File names are not displayed.

ASCII/UTF-8

File names are displayed. File names sent from the host computer are encoded in ASCII/UTF-8.

ShiftJIS

File names are displayed. File names sent from the host computer are encoded in ShiftJIS.

Setup Items in PDL Settings Menu

In the PDL Setting menu, set the parameters for printing.

◆ Available Data Formats

The data formats shown in the following table can be used with this Printer.

Panel Display	Data Formats
D-SCAN	This is OKI Data Infotech's original D-SCAN format. D-SCAN raster data is also supported.
HP-GL	This data format is compatible with HP-GL, HP-GL/2, and HP RTL from HP. (Compatible with HP Designjet 1055CM)
TIFF	This data format is compatible with TIFF Revision 4.0.
CALS	This data format is compatible with CALS Raster Type I.



TIP

- ◇ In this manual, **PDL** is used as a generic term for all the data formats above.
- ◇ For the commands supported by this Printer, see **Command Lists in the Appendix**.

◆ Automatic Data Format Identification

The Printer has a function that automatically detects and processes the format of the received data.

With this function, data in different formats are sent to a single channel or port for printing.

The Printer automatically identifies and processes the received data in the four data formats: D-SCAN format, HP-GL format, TIFF format, and CALS format.

The following PDL parameters are specified in the PDL Setting menu.

- Paper Parameters
- Drawing Parameters
- Scale Parameters

- Format Parameters (only with HP-GL and D-SCAN)
- Pen Parameters (only with HP-GL and D-SCAN)
- Raster Parameters

The PDL Setting menu is browsed or changed even during printing. However, any changed parameters are valid only from the job received after the change. At the end of the setup operation, changed parameters are saved automatically, while the browsed parameters are not saved.

The following sections describe the setting parameter tables in the PDL Setting menu, and explain each parameter. While most of the setting parameters are shared by all the PDL, some parameters are not displayed depending on the PDL, which is explained in the list.

Example: Only with D-SCAN

◆ Setting Parameter Table in PDL Setting Menu

In the **PDL Setting** menu, PDL parameters are selected.
By setting the PDL parameters, print modes are specified.
In the Setup menu, the following items are also available.

Menu	Item	Function
PDL Setting	Port n_HP-GL	Sets the parameter for the PDL table of Ethernet port n. Settings for printing in HP-GL format are performed with this parameter.
	Port n_D-SCAN	Sets the parameter for the PDL table of Ethernet port n. Settings for printing in D-SCAN format are performed with this parameter.
	Port n_TIFF	Sets the parameter for the PDL table of Ethernet port n. Settings for printing in TIFF format are performed with this parameter.
	Port n_CALS	Sets the parameter for the PDL table of Ethernet port n. Settings for printing in CALS format are performed with this parameter.

◆ PDL Parameter Priority Mode

In the HP-GL PDL and D-SCAN PDL, by setting a priority mode for the setup parameters with Data Setting/Panel Setting, the following is activated:

- The setup parameters selected with the data; or
- The setup parameters selected on the Printer

Note that some parameters selected on the Printer is activated even at the data setting priority mode, when the parameters are not selected with the data.

Settings affected by the parameter mode (only with D-SCAN)

Print Copies
Page Size
Writing Mode
Mirror
Drawing
Identify by Paper Number

Settings affected by the pen parameter mode

Pen n Width
Pen n Density
Pen n Line End *
Pen n Line Join *

* : In the D-SCAN PDL, the Printer setting is always valid.

Note that the Printer's setting is prioritized, and that the setting with the computer's printer driver screen is invalid on the situation below:

- At the HP-GL PDL setting with a printer driver, the printer driver setting was deactivated by setting the printer driver option to invalid.

◆ Paper Parameters

■ Size of Automatically Supplied Paper (only with HP-GL, TIFF, and CALS)

Sets the size standard of the supplied paper when the Paper Supply Mode is set to Continuous or Optimal.

<Parameter by selecting options> ■: Default value

■ A Series	Automatically supplies A series paper.
ARCH Series	Automatically supplies ARCH series paper.
ANSI Series	Automatically supplies ANSI series paper.
30x42 Series	Automatically supplies 30x42-inch series paper.
MAP Series	Automatically supplies Map series paper.
DIN Series	Automatically supplies DIN series paper.
User Defined Series	Automatically supplies user defined series paper.

Note

◆ The default value varies depending on the the Printer initialization category.

■ Paper Supply Mode

Sets the paper supply conditions for the paper to be printed on.

<Parameter by selecting options> ■: Default value

■ Continuous	The Printer prints continuously from the small roll to the large roll when each drawing requires no clipping.
Optimal	The Printer prints on the optimal roll for minimizing blank space. When the optimal roll is not installed, the Printer suspends the printing process, and requires the paper replacement.
Roll 1	The Printer prints on the roll 1 paper.
Roll 2	The Printer prints on the roll 2 paper.
Roll 3	The Printer prints on the roll 3 paper.
Roll 4	The Printer prints on the roll 4 paper.

Note

◆ The default value varies depending on the Printer initialization category.

■ Page Size

The standard sizes supported by the Printer are shown below.

A Series	Longer Side	Shorter Side
A0 size	1189.0 mm (46.81 inches)	841.0 mm (33.11 inches)
A1 size	841.0 mm (33.11 inches)	594.5 mm (23.41 inches)
A2 size	594.5 mm (23.41 inches)	420.5 mm (16.56 inches)
A3 size	420.5 mm (16.56 inches)	297.3 mm (11.70 inches)
A4 size	297.3 mm (11.70 inches)	210.3 mm (8.28 inches)

ARCH Series	Longer Side	Shorter Side
E size	1219.2 mm (48 inches)	914.4 mm (36 inches)
D size	914.4 mm (36 inches)	609.6 mm (24 inches)
C size	609.6 mm (24 inches)	457.2 mm (18 inches)
B size	457.2 mm (18 inches)	304.8 mm (12 inches)
A size	304.8 mm (12 inches)	228.6 mm (9 inches)

ANSI Series	Longer Side	Shorter Side
E size	1117.6 mm (44 inches)	863.6 mm (34 inches)
D size	863.6 mm (34 inches)	558.8 mm (22 inches)
C size	558.8 mm (22 inches)	431.8 mm (17 inches)
B size	431.8 mm (17 inches)	279.4 mm (11 inches)
A size	279.4 mm (11 inches)	215.9 mm (8.5 inches)

30×42 Series	Longer Side	Shorter Side
30×42 size	1066.8 mm (42 inches)	762.0 mm (30 inches)
15×21 size	533.4 mm (21 inches)	381.0 mm (15 inches)

MAP Series	Longer Side	Shorter Side
B1 size	1000.0 mm (39.37 inches)	700.0 mm (27.56 inches)
B2 size	700.0 mm (27.56 inches)	500.0 mm (19.69 inches)

DIN Series	Longer Side	Shorter Side
B1 size	1000.0 mm (39.37 inches)	707.0 mm (27.83 inches)
B2 size	707.0 mm (27.83 inches)	500.0 mm (19.69 inches)
B3 size	500.0 mm (19.69 inches)	353.0 mm (13.90 inches)

<Parameter by selecting options> ■: Default value

Same as Original Size

The Printer prints at the original size.

■ Standard Size

The Printer prints at the standard size.

Print as A Series

This parameter is valid only with A series paper. The Printer prints on:
- A1 to A4 size paper; and
- Extended A1 to A4 size paper, at which the longer side is increased by multiples of the longer side's half length.
When the paper is not A series paper, the Printer prints at the standard size.

Note

- ◆ The default value varies depending on the Printer initialization category.
- ◆ With user defined series paper, the Printer always prints at the same size as the original.

■ Print Copies

Sets the number of copies to print

With HP-GL data, the data setting is prioritized if the number of print copies is specified in the data.

<Parameter by entering numbers>

1 to 999

Default value = 1, unit in pages

■ Centering

The Printer prints the image centered on the paper.

<Parameter by selecting options> ■: Default value

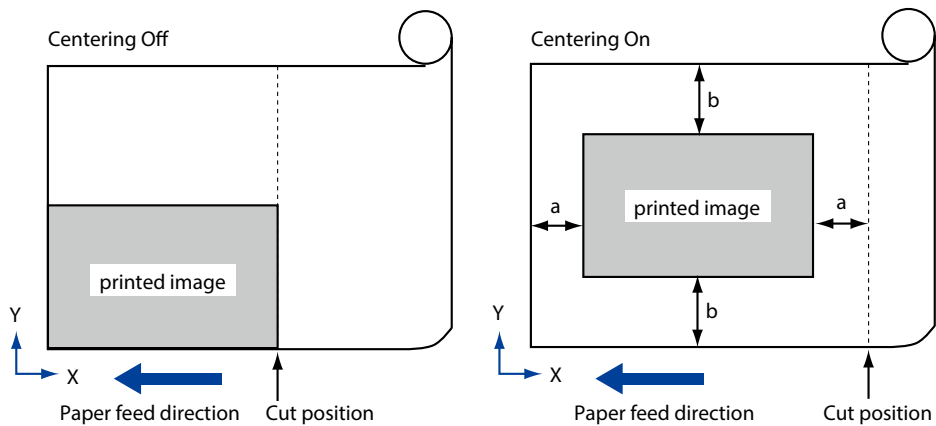
■ Off

The printed image is not centered.

On

The printed image is centered.

The image is not centered when the data size is larger than the spool memory



a: Varies depending on the printed image size.
 b: Varies depending on the printed image size.
 Regardless of the printed image size, the image is positioned in the center of the paper

■ Paper Type

The paper type is specified, which is valid at the automatic paper supply with Paper Supply Mode set to Continuous or Optimal.

<Parameter by selecting options> ■: Default value

■ Not Specified	Does not specify the paper type.
Plain	Supplies plain paper.
Tracing	Supplies tracing paper.
Film	Supplies film.

■ Excess Size Tolerance (mm)

When an image size exceeds a standard size or a roll paper size, the Printer identifies the image size as the standard size or the roll paper size on the condition that the excess is within the defined excess size tolerance.

However, note that the part of the image exceeding the used paper size is not printed, as the actual print area is not affected by the excess size tolerance.

<Parameter by entering numbers>

0 to 30	Default value = 2, Unit in mm
---------	-------------------------------

■ Output Tray

The parameter specifies the size of the printout to be output on the optional tray.

<Parameter by selecting options> ■: Default value

■ Off

The Printer outputs all paper to the lower output slot.

Output Tray

The Printer outputs the A3 or smaller printout to the tray.

Note

- ◆ When an optional Folder is connected to the Printer, the Printer outputs all printouts to the paper outlet slot.

■ Folder

Your printer does not use this parameter. So always set the parameter to **Not Enabled**. With **Enabled**, the printer will not start correctly.

■ Print from End

The parameter activates the function to rotate the image by 180 degrees before printing.

<Parameter by selecting options> ■: Default value

■ Off

The Printer does not rotate the image by 180 degrees before printing.

On

The Printer rotates the image by 180 degrees before printing.

■ Print Direction

The parameter selects the print direction. This function is effective when:

- The image is printed with a standard size, and
- To print the image, two types of the roll paper installed are available

<Parameter by selecting options> ■: Default value

■ Short Edge First

The printer prints the image with setting its shorter edge toward the roll paper's lead edge.

Long Edge First

The printer prints the image with setting its longer edge toward the roll paper's lead edge.

■ Con. OtherPaper in ContinuousMode

Sets whether to continue printing with a different large paper roll when paper has run out in continuous mode.

In principle, the default setting should be used.

<Parameter by selecting options> ■: Default value

■ On	Continues with a different paper.
Off	Does not continue with a different paper.

■ Con. Other Paper in Optimal Mode

Sets whether to continue printing with a different large paper roll when paper has run out in optimal mode.

In principle, the default setting should be used.

<Parameter by selecting options> ■: Default value

■ Off	Does not continue with a different paper.
On	Continues with a different paper.

■ Con. Other Paper w/ Auto Rotation

In case the paper has run out when **Paper Size** is set to **Standard Size**, the Printer can continue printing on a different paper by rotating the drawing.

When the paper runs out in **Con. Other Paper w/ Auto Rotation**, the Printer continues printing on a different paper and rotates the drawing to match the roll width.

In principle, the default setting should be used.

<Parameter by selecting options> ■: Default value

■ On	Continues with a different paper.
Off	Does not continue with a different paper.

■ A4 Direc w/ ActualSize&Continuous

When **Size of Automatically Supplied Paper** is set to **A Series**, **Paper Supply Mode** is set to **Continuous**, and **Paper Size** is set to **Actual Size**, the Printer prints all drawings in portrait orientation.

Only A4 drawings can be printed in landscape orientation.

In principle, the default setting should be used.

<Parameter by selecting options> ■: Default value

■ Short Edge First	Prints in portrait orientation.
Long Edge First	Prints in landscape orientation.

◆ Drawing Parameters

Drawing parameters specify the print conditions.

■ Parameter Mode (only with D-SCAN)

When a parameter is selected with both data and touchpanel, the parameter mode specifies the parameter priority.

<Parameter by selecting options> ■: Default value

■ Data Setting

The parameter specified with data is validated.

■ Panel Setting

The parameter specified with touchpanel is validated.

■ Offset Mode

The offset mode selects **Same Drawing Size with Top and Bottom Blank**, **Offset with Paper Size Change**, or **Offset without Paper Size Change** as the offset function.

<Parameter by selecting options> ■: Default value

■ Same Drawing Size with Top and Bottom Blank

The parameter selects the same drawing size with the top and bottom blank as the offset function. The **Same Drawing Size with Top and Bottom Blank** setting is enabled.

■ Offset with Paper Size Change

The parameter selects the X offset and Y offset as the offset function. The X Offset and Y Offset settings are enabled. The page size is increased or decreased by the offset amount.

■ Offset without Paper Size Change

The parameter selects the X offset and Y offset as the offset function. The X Offset and Y Offset settings are enabled. Note that the offset function does not affect the printed image size. As a result, the printed image may be clipped. When the printed image size is not specified, the Printer prints the image in the Offset with Paper Size Change mode.

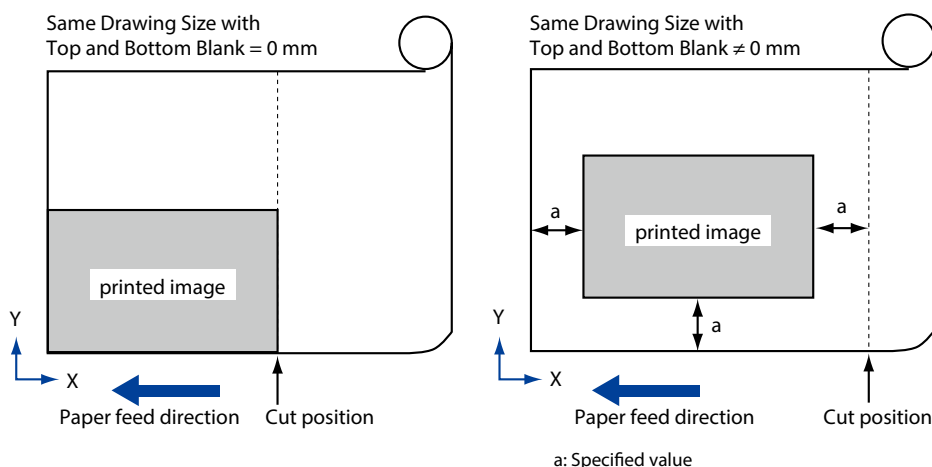
■ Same Drawing Size with Top and Bottom Blank

The parameter specifies the blank space size to add around a printed image at the same size as the original. Note that the parameter is valid only when the offset mode is set to **Same Drawing Size with Top and Bottom Blank**.

<Parameter by entering numbers>

0 to 100

Default value = 0, Unit in mm



■ X Offset

■ Y Offset

The parameter specifies the X, and Y offsets. They are valid when the **Offset Mode** is set to **Offset with Paper Size Change** or **Offset without Paper Size Change**.

The parameter setting is invalid on the conditions below:

- HP-GL data is specified;
- The image data was created with the image center set to the coordinate origin; and
- The data is printed with setting Page Size to Actual Size.

<Parameter by entering numbers>

-9999.99 to 9999.99

Default value = 0, Unit in mm

■ Writing Mode (only with HP-GL and D-SCAN)

The parameter specifies the overwriting mode when the images overlap. Note that, with HP-GL data, the writing mode specified with data is prioritized over the setting with touchpanel.

<Parameter by selecting options> ■: Default value

■ Overwrite

Overwrites.

Delete and Write

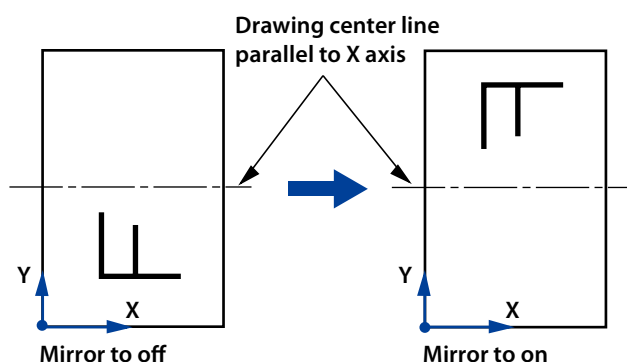
Deletes and writes.

■ Mirror

With the parameter, the Printer prints the image reversed, that is, symmetrical around the drawing's center line parallel to the x axis.

<Parameter by selecting options> ■: Default value

■ Off	Does not perform mirror printing.
On	Performs mirror printing.



■ Reverse (only with TIFF and CALS)

With the parameter, the Printer prints the white on black reverse image.

<Parameter by selecting options> ■: Default value

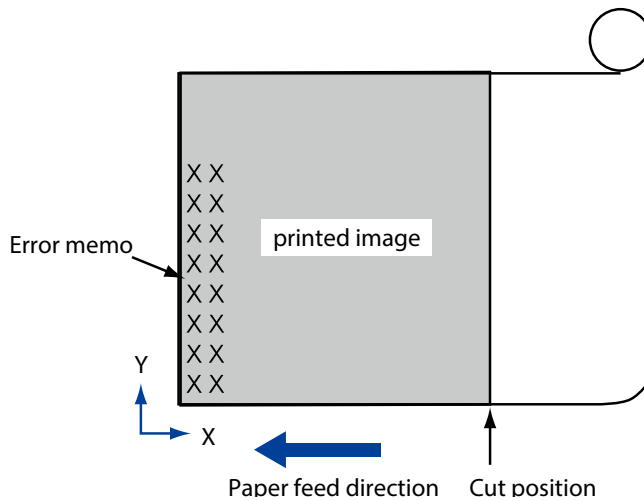
■ Off	Does not perform reverse printing.
On	Performs reverse printing.

■ Error Memo

With the parameter, the Printer prints an error memo on the side of the printout if a PDL error such as a command error occurs.

<Parameter by selecting options> ■: Default value

Off	Does not add an error memo.
■ On	Adds and prints an error memo on the side of the printout if a PDL error occurs during data processing.
Partial	Adds and prints an error memo on the side of the page if a PDL error occurs during data processing. However, the Printer does not print the error memo for the command errors (only with HP-GL).



◆ Scale Parameters

Scale parameters specify the scale conditions.

■ Scale Settings

● Scale Mode

The parameter selects the image scale mode: **Manual Scale** or **Auto Scale**. When **Manual Scale** is selected, the image is scaled according to the x scale, y scale, and standard-size scale settings.

<Parameter by selecting options> ■: Default value

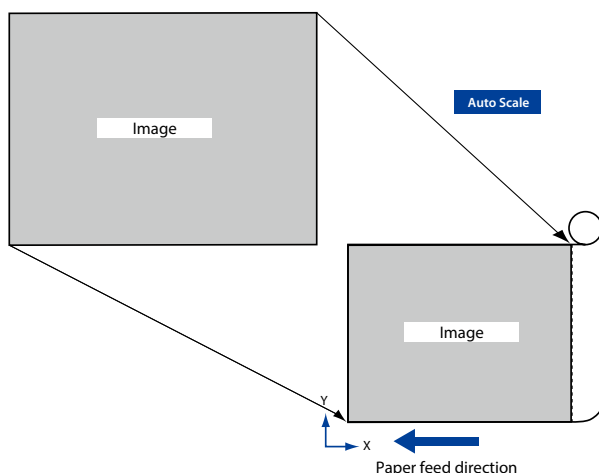
■ Manual Scale

The parameter selects the image to be scaled manually. The **Manual Scale** parameters below are valid.

- X scale
- Y scale
- Standard-size scale

Auto Scale

The parameter selects the image to be scaled automatically so that the whole image larger than the paper is printed on the paper.



● X Scale (%)

● Y Scale (%)

The parameters specify the scale values in x and y directions when the **Scale Mode** is set to **Manual Scale**.

<Parameter by entering numbers>

0.01 to 1000.00

Default value = 100, Numbers indicate percentage for scale.

- Numbers indicate percentage for scale.
- This setting is enabled when the Scale Mode is set to Manual Scale. When the setting is 100%, the image is printed at the same size.

● Pen Width Scale (only with HP-GL and D-SCAN)

The parameter selects the scale mode applied to lines when an image is scaled with x ratio equal to y ratio.

The lines includes:

- Solid lines
- Lines with dots and/or dashes repeated

<Parameter by selecting options> ■: Default value

Off

The parameter does not apply the scaling to:

- Line widths
- Inter-dot distance
- Dash-dot distance

■ **On**

The parameter applies the scaling to:

- Line widths
- Inter-dot distance
- Dash-dot distance

However, note that the maximum line width is 16 mm.

■ Scale in A

■ Scale in ARCH

■ Scale in ANSI

The parameter specifies the auto scaling mode from one standard size image to another standard size image when the **Scale Mode** is set to **Manual Scale**. Note that the setting is disabled at actual size printing and enlarged standard-size printing. Specify the parameters in the third hierarchical menu.

<Parameter by selecting options>

Scale in A

A4	The Printer prints the A4 standard size image, auto scaled from a standard size original image.
A3	The Printer prints the A3 standard size image, auto scaled from a standard size original image.
A2	The Printer prints the A2 standard size image, auto scaled from a standard size original image.
A1	The Printer prints the A1 standard size image, auto scaled from a standard size original image.
A0	The Printer prints the A0 standard size image, auto scaled from a standard size original image.

Scale in ARCH

A	The Printer prints the A standard size image in the 9x12 series, auto scaled from a standard size original image.
B	The Printer prints the B standard size image in the ARCH series, auto scaled from a standard size original image.
C	The Printer prints the C standard size image in the ARCH series, auto scaled from a standard size original image.
D	The Printer prints the D standard size image in the ARCH series, auto scaled from a standard size original image.
E	The Printer prints the E standard size image in the ARCH series, auto scaled from a standard size original image.

Scale in ANSI

A	The Printer prints the A standard size image in the ANSI series, auto scaled from a standard size original image.
B	The Printer prints the B standard size image in the ANSI series, auto scaled from a standard size original image.
C	The Printer prints the C standard size image in the ANSI series, auto scaled from a standard size original image.
D	The Printer prints the D standard size image in the ANSI series, auto scaled from a standard size original image.
E	The Printer prints the E standard size image in the ANSI series, auto scaled from a standard size original image.

- Scale for A Series Roll Width
- Scale for ARCH Series Roll Width
- Scale for ANSI Series Roll Width
- Scale for User Defined Roll Width

This parameter specifies the auto scaling mode from one roll width to another roll width with actual size printing when the Scale Mode is set to Manual Scale. Note that the setting is disabled with standard-size printing and enlarged standard-size printing.

- Roll width scaling is available only when used with the same size standard rolls.
Scaling cannot be performed with a roll of a different series.

<Parameter by selecting options> ■: Default value

Scale for A Series Roll Width

A3 Width	A0 Width	The Printer prints the image enlarged to A0 roll width size.
	A1 Width	The Printer prints the image enlarged to A1 roll width size.
	A2 Width	The Printer prints the image enlarged to A2 roll width size.
A2 Width	■ A3 Width	The Printer prints the image with the original size.
	A0 Width	The Printer prints the image enlarged to A0 roll width size.
	A1 Width	The Printer prints the image enlarged to A1 roll width size.
A1 Width	■ A2 Width	The Printer prints the image with the original size.
	A3 Width	The Printer prints the image reduced to A3 roll width size.
	A0 Width	The Printer prints the image enlarged to A0 roll width size.
A0 Width	■ A1 Width	The Printer prints the image with the original size.
	A2 Width	The Printer prints the image reduced to A2 roll width size.
	A3 Width	The Printer prints the image reduced to A3 roll width size.
Width Exceeding A0	■ A0 Width	The Printer prints the image with the original size.
	A1 Width	The Printer prints the image reduced to A1 roll width size.
	A2 Width	The Printer prints the image reduced to A2 roll width size.
	A3 Width	The Printer prints the image reduced to A3 roll width size.
	■ Same Width	The Printer prints the image with the original size. The parts of the image exceeding the roll width are not printed.
	A0 Width	The Printer prints the image reduced to A0 roll width size.
	A1 Width	The Printer prints the image reduced to A1 roll width size.

A2 Width The Printer prints the image reduced to A2 roll width size.

A3 Width The Printer prints the image reduced to A3 roll width size.

Scale for ARCH Series Roll Width

B Width	E Width	The Printer prints the image enlarged to E roll width size.
	D Width	The Printer prints the image enlarged to D roll width size.
	C Width	The Printer prints the image enlarged to C roll width size.
	 B Width	The Printer prints the image with the original size.
C Width	E Width	The Printer prints the image enlarged to E roll width size.
	D Width	The Printer prints the image enlarged to D roll width size.
	 C Width	The Printer prints the image with the original size.
	B Width	The Printer prints the image reduced to B roll width size.
D Width	E Width	The Printer prints the image enlarged to E roll width size.
	 D Width	The Printer prints the image with the original size.
	C Width	The Printer prints the image reduced to C roll width size.
	B Width	The Printer prints the image reduced to B roll width size.
E Width	 E Width	The Printer prints the image with the original size.
	D Width	The Printer prints the image reduced to D roll width size.
	C Width	The Printer prints the image reduced to C roll width size.
	B Width	The Printer prints the image reduced to B roll width size.
Width Exceeding E	 Same Width	The Printer prints the image with the original size. The parts of the image exceeding the roll width are not printed.
	E Width	The Printer prints the image reduced to E roll width size.
	D Width	The Printer prints the image reduced to D roll width size.
	C Width	The Printer prints the image reduced to C roll width size.
	B Width	The Printer prints the image reduced to B roll width size.

Scale for ANSI Series Roll Width

B Width	E Width	The Printer prints the image enlarged to E roll width size.
	D Width	The Printer prints the image enlarged to D roll width size.
	C Width	The Printer prints the image enlarged to C roll width size.
C Width	 B Width	The Printer prints the image with the original size.
	E Width	The Printer prints the image enlarged to E roll width size.
	D Width	The Printer prints the image enlarged to D roll width size.
D Width	 C Width	The Printer prints the image with the original size.
	B Width	The Printer prints the image reduced to B roll width size.
	E Width	The Printer prints the image enlarged to E roll width size.
	 D Width	The Printer prints the image with the original size.
E Width	C Width	The Printer prints the image reduced to C roll width size.
	B Width	The Printer prints the image reduced to B roll width size.
	 E Width	The Printer prints the image with the original size.
	D Width	The Printer prints the image reduced to D roll width size.
Width Exceeding E	C Width	The Printer prints the image reduced to C roll width size.
	B Width	The Printer prints the image reduced to B roll width size.
	 Same Width	The Printer prints the image with the original size. The parts of the image exceeding the roll width are not printed.
	E Width	The Printer prints the image reduced to E roll width size.
	D Width	The Printer prints the image reduced to D roll width size.
	C Width	The Printer prints the image reduced to C roll width size.
	B Width	The Printer prints the image reduced to B roll width size.

Scale for User Defined Roll Width

User Defined 4 Width	User Defined 1 Width	The Printer prints the image enlarged to user defined 1 roll width size.
	User Defined 2 Width	The Printer prints the image enlarged to user defined 2 roll width size.
	User Defined 3 Width	The Printer prints the image enlarged to user defined 3 roll width size.
	 User Defined 4 Width	The Printer prints the image with the original size.

User Defined 3 Width	User Defined 1 Width	The Printer prints the image enlarged to user defined 1 roll width size.
	User Defined 2 Width	The Printer prints the image enlarged to user defined 2 roll width size.
	■ User Defined 3 Width	The Printer prints the image with the original size.
	User Defined 4 Width	The Printer prints the image reduced to user defined 4 roll width size.
User Defined 2 Width	User Defined 1 Width	The Printer prints the image enlarged to user defined 1 roll width size.
	■ User Defined 2 Width	The Printer prints the image with the original size.
	User Defined 3 Width	The Printer prints the image reduced to user defined 3 roll width size.
	User Defined 4 Width	The Printer prints the image reduced to user defined 4 roll width size.
User Defined 1 Width	■ User Defined 1 Width	The Printer prints the image with the original size.
	User Defined 2 Width	The Printer prints the image reduced to user defined 2 roll width size.
	User Defined 3 Width	The Printer prints the image reduced to user defined 3 roll width size.
	User Defined 4 Width	The Printer prints the image reduced to user defined 4 roll width size.
Width Exceeding User Defined 1	■ Same Width	The Printer prints the image with the original size. The parts of the image exceeding the roll width are not printed.
	User Defined 1 Width	The Printer prints the image reduced to user defined 1 roll width size.
	User Defined 2 Width	The Printer prints the image reduced to user defined 2 roll width size.
	User Defined 3 Width	The Printer prints the image reduced to user defined 3 roll width size.
	User Defined 4 Width	The Printer prints the image reduced to user defined 4 roll width size.

Chapter	1	Before Use
Chapter	2	Basic Operations
Chapter	3	Menu Functions
Chapter	4	Print Job Box Function
Chapter	5	Authentication Function
Chapter	6	Troubleshooting
		Appendix

◆ Format Parameters (only with HP-GL and D-SCAN)

Format parameters specify the analysis conditions in the HP-GL format and D-SCAN format.

Select this setting to:

- Use the LP-2060's printer driver;
- Operate without the touchpanel setting; and
- Print on a user defined series roll.

The user-defined roll width is specified with:

- The printer driver setting; or
- The touchpanel setting

When you intend to specify a user-defined roll width with the printer driver setting, set the parameter to **User Defined**.

However, in spite of selecting **User Defined**, the user-defined roll width with touchpanel setting is valid when the Printer receives data from the other printer drivers.

■ Printer Drive (only with HP-GL)

The parameter specifies the operation mode for the LP-2060's printer driver. When the LP-2060's printer driver is operated with other drivers, set the parameter to Enabled.

<Parameter by selecting options> ■: Default value

Not Enabled

When the Printer operates with the printer driver for LP-1030 installed, select Not Enabled to prioritize the PDL settings with the operation panel over the driver settings.

Note

- ◆ When the driver is disabled, some items are affected.

Items affected by the driver settings are listed in the table on the following page.

Enabled

When the Printer operates with the printer driver for LP-2060 installed, select Enabled to prioritize the driver settings over the PDL settings with the operation panel. However, when the Printer receives data from the other printer driver, the PDL settings with the operation panel is prioritized.

User Defined

When the Printer operates with the printer driver for LP-2060 installed, select **User Defined** to print on the user-defined series roll and to prioritize the driver settings over the PDL settings with the operation panel. With this setting, the data output from the driver automatically selects the user-defined series roll, and is printed with the actual size. However, when the Printer receives data from the other printer driver, the PDL settings with the operation panel is prioritized.

Note

- ◆ The default value varies depending on the Printer initialization category.

Items affected by the driver settings

Yes: The driver setting is disabled and the printer setting is enabled.

No: In effect even when the driver is disabled.

Setup Items		Consequence
Paper tab	Print orientation	No
	Paper size	No ^{*1}
	Number of copies	No
	Paper supply method	Yes
	Output method	Yes
	Margin adjustment	No
	Nest and rotation	No
Output settings tab	Output color	No
	Print objective	No
	Finishing	No
	Output color adjustment	No
	Pen setting	No
Special effects settings	Halftone	No ^{*2}
	Darken lines and print	No
	Mirror image printing	Yes
	Emphasize 1-dot lines	No
	Simplify overlay	No
	Correct gap of fill	No
	TrueType font processing	No
Layout	Gray processing	No
	Scaling	Yes
	Move origin	No
	Draw figure area	Yes ^{*3}
Stamp tab	Centering	Yes
	Print stamp	No
Option tab	Driver operation mode	No
	Margin specification for actual length printing	Yes
	Read/write driver settings	No
	Initialize all driver settings	No
Authentication tab	Authentication printing	No

*1: Paper size is enabled but series specification is disabled.

*2: Vectors are specified on the operation panel.

*3: The printer driver's **Draw figure area** item cannot be specified with the operation panel. However, the printout depends on the panel settings.

■ Language (only with HP-GL)

With this parameter, the received data is handled as HP-GL or HPGL/2.

When Auto is selected, the data is automatically identified.

The selection of HP-GL or HP-GL/2 affects the coordinate origin definition.

<Parameter by selecting options> ■: Default value

■ Auto	The parameter identifies HP-GL or HP-GL/2 automatically.
HP-GL	The parameter identifies the received data as HP-GL.
HP-GL/2	The parameter identifies the received data as HP-GL/2.

- With HP-GL, the coordinate origin is at the center of the print area, while with HP-GL/2, it is at the bottom left.
- No error occurs even if HP-GL/2 data is received with HP-GL selected.

■ Terminator PG1;

■ Terminator NR;

■ Terminator SP0;

■ Terminator ESC.)

■ Terminator AF;

■ Terminator AH;

■ Terminator FR;

Each parameter above specifies the print end.

Be sure to set the Terminator SP0 to Off when you apply SP0 to your drawing pen, or your pen 0 is taken as a terminator.

<Parameter by selecting options> ■: Default value

Off	Does not set the command as a terminator (EOF).
■ On	Sets the command as a terminator (EOF).

■ Drawing Size Command (only with HP-GL)

The parameter specifies PS, IP, or IW to be applied to the drawing size.

If the drawing size of the data is not specified correctly, set this parameter to Off.

<Parameter by selecting options> ■: Default value

Off	Disables the drawing size command.
■ On (PS)	Specifies the PS value as the drawing size.
On (IP)	Specifies the IP value as the drawing size.
On (IW)	Specifies the IW value as the drawing size.

- Note that the function of the IP and IW values differs depending on your CAD application, which may cause print defects. To prevent it, before selecting On (IP) or On (IW), be sure to check that IP or IW value is obviously specified as the drawing size.
- When the data includes the PS value at On (IP) or On (IW), the PS value is prioritized.

■ Drawing (only with D-SCAN)

The parameter specifies drawing print.

<Parameter by selecting options> ■: Default value

■ NOP	Does not perform drawing print.
EOF	Performs drawing print.

■ Identify by Paper Number (only with D-SCAN)

With the parameter, the paper number is identified as paper position or paper type.

<Parameter by selecting options> ■: Default value

Off	Disables the paper number in the information block.
■ Paper Position	Identifies the paper number as the paper position.
Paper Type	Identifies the paper number as the paper type.

When the paper number is identified as the **Paper Position**, the paper is supplied as follows.

Paper Number	Paper Supply
0	Disables the paper number and supplies paper according to the touchpanel's Paper Supply Mode setting.
1	Supplies paper with identifying the Paper Supply Mode as Roll 1.
2	Supplies paper with identifying the Paper Supply Mode as Roll 2.
3	Supplies paper with identifying the Paper Supply Mode as Roll 3.
4	Supplies paper with identifying the Paper Supply Mode as Roll 4.
5 or higher	Supplies paper with identifying the Paper Supply Mode as Roll 1.

When the paper number is identified as the **Paper Position**, the paper is supplied as follows.

Paper Number	Paper Supply
0	Disables the paper number and supplies paper according to the touchpanel's Paper Supply Mode setting.
1	Prints with plain paper.
2	Prints with tracing paper.
3	Prints with film.
4 or higher	Supplies paper with identifying the Paper Supply Mode as Roll 4.

Note

- ◆ The settings are valid only with the application compatible with the paper numbers above.

◆ Pen Parameters (only with HP-GL and D-SCAN)

Pen parameters specify the Printer's drawing pen conditions, e.g., thickness (line width), and density.

HP-GL: 00 to 15

D-SCAN: 01 to 32

■ Pen Settings

● Pen Parameter Mode

The parameter selects the data setting or touchpanel setting to specify the pen attribute.

<Parameter by selecting options> ■: Default value

■ Data Setting

Enables the data setting for the pen attributes.

Panel Setting

Enables the touchpanel setting for the pen attributes.

● Fine Pen-Width Adjustment

The parameter adjusts the pen width value. The pen width specified with data or touchpanel setting is increased or decreased by the adjustment value.

Note that the maximum pen width is 16 mm (0.63 inches), and the minimum is 1 dot.

<Parameter by selecting options>

-0.99 to +0.99

Default value = 0

● Micro-Vector Rounding

The parameter specifies the shape of the micro-vector's line ends and line joins.

<Parameter by selecting options> ■: Default value

■ Off

Line end is specified by the Line End parameter, and Line join is specified by the Line Join parameter.

On

Performs rounding for all micro-vectors.

- With the Printer, micro-vector is defined as follows:
 - The line width and line length are 1 mm or less.

- In some cases micro-vectors may be printed clearly only with the parameters below:
Line End to Round; and
Line Join to Round

When the Micro-Vector Rounding is set to On, the micro-vector is processed with the settings below:

- Line End to Round; and
Line Join to Round

so that the micro-vector is printed clearly.

■ Pen N

● Width (mm)

The parameter specifies the Printer's pen width. When it is set to 0.00, the Printer prints lines with a 1-dot width.

<Parameter by entering numbers>

0.00 to 16.00

Default values:

Pen 0 = 0.20 mm (0.008 inches)* Pen 1 = 0.30 mm (0.012 inches)
Pen 2 = 0.40 mm (0.016 inches) Pen 3 = 0.50 mm (0.020 inches)
Pen 4 = 0.60 mm (0.024 inches) Pen 5 = 0.70 mm (0.028 inches)
Pen 6 = 0.80 mm (0.031 inches) Pen 7 = 0.90 mm (0.035 inches)
Pen 8 = 1.00 mm (0.039 inches) Pen 9 = 1.00 mm (0.039 inches)

*** HP-GL only**

Pen 15 = 1.00 mm (0.039 inches) *For HP-GL
Pen 32 = 1.00 mm (0.039 inches) *For D-SCAN

Specified Values	No. of Dots	Specified Values	No. of Dots
0.00 to 0.06 mm (0.0000 to 0.0024 inches)	1	0.53 to 0.57 mm (0.0209 to 0.0224 inches)	13
0.07 to 0.10 mm (0.0027 to 0.0039 inches)	2	0.58 to 0.61 mm (0.0228 to 0.0240 inches)	14
0.11 to 0.14 mm (0.0043 to 0.0055 inches)	3	0.62 to 0.65 mm (0.0244 to 0.0256 inches)	15
0.15 to 0.19 mm (0.0059 to 0.0075 inches)	4	0.66 to 0.69 mm (0.0260 to 0.0272 inches)	16
0.20 to 0.23 mm (0.0079 to 0.0091 inches)	5	0.70 to 0.74 mm (0.0276 to 0.0291 inches)	17
0.24 to 0.27 mm (0.0094 to 0.0106 inches)	6	0.75 to 0.78 mm (0.0295 to 0.0307 inches)	18
0.28 to 0.31 mm (0.0110 to 0.0122 inches)	7	0.79 to 0.82 mm (0.0311 to 0.0323 inches)	19
0.32 to 0.35 mm (0.0126 to 0.0138 inches)	8	0.83 to 0.86 mm (0.0327 to 0.0339 inches)	20
0.36 to 0.40 mm (0.0142 to 0.0157 inches)	9	0.87 to 0.91 mm (0.0343 to 0.0358 inches)	21
0.41 to 0.44 mm (0.0161 to 0.0173 inches)	10	0.92 to 0.95 mm (0.0362 to 0.0374 inches)	22
0.45 to 0.48 mm (0.0177 to 0.0189 inches)	11	0.96 to 0.99 mm (0.0378 to 0.0390 inches)	23
0.49 to 0.52 mm (0.0193 to 0.0205 inches)	12	1.00 to 1.03 mm (0.0394 to 0.0406 inches)	24

● Density (%)

Sets the density of the printer's pens.

<Parameter by entering numbers>

0 to 100

Default values:

Pen 0 = 0, Pens 1 to 15 (32) = 100

If the density of a thin line is reduced, it may be printed as a dotted line.

In the D-SCAN format, 16 gradations are available for printing.

Specified Values (%)	Gradation	Specified Values (%)	Gradation
0 to 5	1	50 to 56	9
6 to 12	2	57 to 62	10
13 to 18	3	63 to 68	11
19 to 24	4	69 to 74	12
25 to 30	5	75 to 81	13
31 to 37	6	82 to 87	14
38 to 43	7	88 to 93	15
44 to 49	8	94 to 100	16

- In the HP-GL format, printing is performed in white when the density is 0%.
- In the D-SCAN format, printing is performed in white when the density is 0 to 5%.

● Line End

The parameter specifies the line end shape for the printer's pens.

<Parameter by selecting options> ■: Default value

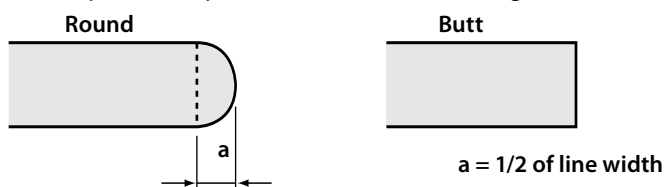
■ **Round**

Sets the line end to round.

Butt

Sets the line end to butt.

- The line end shape of these parameters are shown in the figures below.



- The printing may take time when the parameter settings are NOT as follows.
Line End to Round; and
Line Join to Round
- The Line End parameter may not be valid for the outermost line on a drawing.

● Line Join

The parameter specifies the line join shape of the Printer's pen.

<Parameter by selecting options> ■: Default value

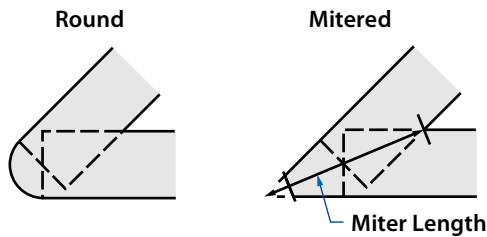
■ **Round**

Sets the line join to round.

Mitered

Sets the line join to mitered.

- The connection method of these parameters are shown in the figures below.



- The printing may take time when the parameter settings are NOT as follows.
Line End to Round; and
Line Join to Round
- The Line Join parameter is not valid for the non-traversable broken lines.
- The Line Join parameter is not valid when a line attribute below is changed:
 - Line color
 - Line width
 - Line type
- The Line Join parameter may not be valid for the outermost line on a drawing.

◆ Raster Parameters

Raster parameters specify the condition to draw raster data.

■ Binary Image Scale

Sets the scaling mode when scaling binary image data.

<Parameter by selecting options> ■: Default value

Photo Mode

Maintains the density when scaling binary image data.
(Performs simple sampling.)

■ Line Art Mode

Maintains the lines when scaling binary image data.

■ Screening (only with HP-GL and D-SCAN)

The parameter specifies the screening method for multi-valued image.

<Parameter by selecting options> ■: Default value

■ Line Art Mode

For multi-valued image data, performs screening suitable for line art.

Graphic Mode

For multi-valued image data, performs screening suitable for computer graphics.

Photo Mode

For multi-valued image data, performs screening suitable for photos. Some processing time is required for Line Art Mode and Graphic Mode.

■ Uniformity effects

This setting can be used only when **Graphic Mode** is selected in the **Screening** setting.

This setting further reduces density unevenness in case density unevenness in the low-density parts appears in spite of the **Graphic Mode** selected for the **Screening** setting.

<Parameter by selecting options> ■: Default value

■ Standard

Uniformity processing is not performed.

Better uniformity

Uniformity processing is performed. (Print quality is less than with **Standard**.)

High uniformity

Uniformity processing is performed. (Print quality is less than with **Better uniformity**.)

◆ PDC (Print Data Converter) Parameters

The Print Data Converter function converts print images into TIFF or PDF files when the images are printed with the Printer, and then saves them in the Printer's PDC box or a shared folder on a computer.

Up to 1000 files can be saved in the PDC box, which has a capacity of 39 GB. When this number is exceeded, files are deleted from the oldest. Files are also deleted when the PDC box retention period expires.

Files stored in the PDC box can be accessed using the WEB functions or TerioStation2 (exclusive application).

■ PDC Parameters

This parameter sets the PDC function.

<Parameter by selecting options> ■: Default value

■ Off	Print Data Converter is not performed. Printing only.
Print + image conversion	Print Data Converter is performed. Print images are converted into TIFF files and stored in the PDC box when printed.
Image conversion	Print Data Converter is performed. Print images are converted into TIFF or PDF files and stored in the PDC box or a shared folder without being printed.

■ File Save Destination

Specify the save destination of TIFF and PDF files created by Print Data Converter.

<Parameter by selecting options> ■: Default value

■ PDC Box	Save to the PDC box in the hard disk drive of the printer. Files stored in the PDC box can be accessed using the WEB functions or TerioStation2 (exclusive application).
DestFolder for Submission	Save to a folder defined as a destination folder for submission preset on the computer.

Note

◆ For presetting of submission destinations, see  page 157.

■ File naming rules 1 to 4

This parameter specifies the naming rules for the TIFF data files stored in the PDC box. The following settings are available for the naming rules 1 to 4.

<Parameter by selecting options> ■: Default value

■ Not Specified

File naming rules are not used.

Date and Time Created

Uses the date and time of the data creation for the file names.

File Name

Uses the file name of the print data for the file names. Set the host character encoding parameter to an option different from Not Specified when using naming rules parameter with a method other than the printer driver connection.

User Name

Uses the login name of the user logged in the host computer when the print data was sent for the file names.

Host Name

Uses the name of the host computer from which the data was sent for the file names.

● Example

With the following naming rules setting,

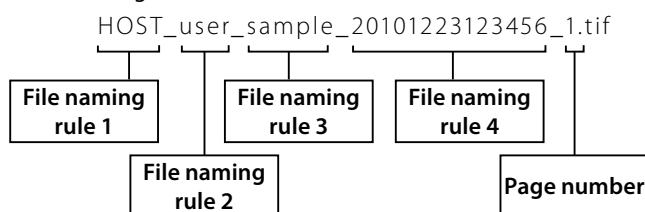
File naming rule 1: Host name

File naming rule 2: User name

File naming rule 3: File name

File naming rule 4: Date and time created

if print data is created under the file name sample.tif on December 23, 2010, at 12:34:56 p.m. by a user logged into a computer named **HOST**, a TIFF file with the following name is created in the PDC box.



- The page number is added at the end of the file name. When a file contains several drawings, the page number appears as _1_, _2_, _3_, etc.
- Not Specified cannot be set for the file naming rule 1.

■ Format of date and time created

This parameter specifies the format of the creation date and time when **Date and Time Created** is selected as a naming rule.

In the case the data was created on December 23, 2010, at 12:34:56 p.m., the creation date and time are displayed as follows.

<Parameter by selecting options> ■: Default value

■ YYMMDDhhmmss	Example: 101223123456
YYYYMMDD	Example: 20101223
YYMMDD	Example: 101223
hhmmss	Example: 123456

■ File Format

Select the file format of images created by PDC.

<Parameter by selecting options> ■: Default value

TIFF	Creates a TIFF file.
■ PDF	Creates a PDF file.

■ Number of destination folder for submission (Number of Dest Folder for Sub)

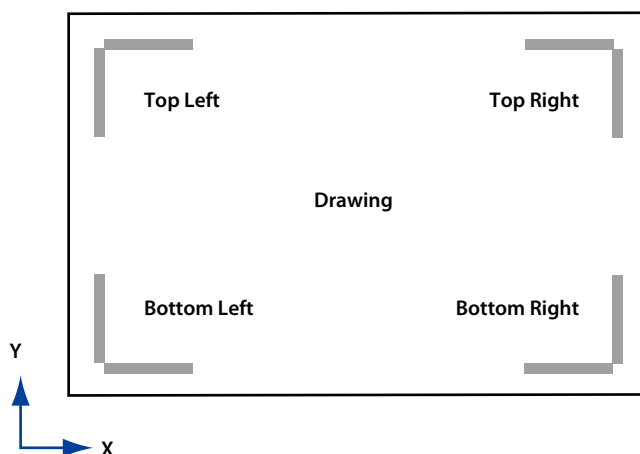
When the file save destination is set to **Number of Dest Folder for Sub**, specifies the folder using the number of the destination folder.

<Parameter by entering numbers>

1 to 100	Default value = 1
----------	-------------------

◆ Stamp Parameters

This function prints information such as the date and user name in any corner of a printout.



■ Stamp Position

This parameter specifies the position to print the stamp.

<Parameter by selecting options> ■: Default value

☒ Bottom Right

Bottom Left

Top Right

Top Left

■ Stamp Direction

This parameter specifies the direction of the character string.

<Parameter by selecting options> ■: Default value

☒ Left to right

Right to left

Bottom to top

Top to bottom

■ Distance from Paper Edges

This parameter specifies distance of the stamp from the paper edges.

<Parameter by entering numbers>

1 to 10	Default value = 5, Unit in mm
---------	-------------------------------

■ Characters Height

This parameter specifies the height of the stamp characters.

<Parameter by entering numbers>

2 to 10	Default value = 4, Unit in mm
---------	-------------------------------

■ Stamped items 1 to 3

These parameters specify to print stamps (Reception date and time, User specified, and User name) and the printing order.

<Parameter by entering numbers>

■ Not Specified	Does not print stamp.
Reception Date and Time	Prints the date and time when the Printer received the print data.
User Specified	Prints the character string (0 to 16 characters) specified in Stamped Character String.
User name	Prints the name of the user logged in the PC.

● Example

With the following stamped items setting,

Stamped item 1: User Name

Stamped item 2: User Specified

Stamped item 3: Reception Date and Time

Stamped character string: CONFIDENTIAL

if print data is received on December 23, 2010, at 12:34:56 p.m. from a computer with user logged in, the following stamp is printed.



■ Reception Date and Time Format

This parameter specifies the format of the reception date and time when **Reception Date and Time** is selected as a stamped item.

In the case the data was received on December 23, 2010, at 12:34:56 p.m., the reception date and time are displayed as follows.

<Parameter by selecting options> ■: Default value

■ YYMMDDhhmmss	Example: 101223123456
YYYYMMDD	Example: 20101223
YYMMDD	Example: 101223
hhmmss	Example: 123456

■ User-specified character string (Specified Characters)

This parameter sets the user specified character string.

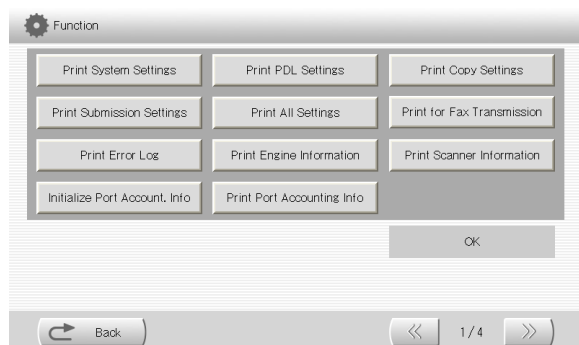
<Parameter by entering characters>

0 to 16 characters Default value: 0

- The available characters are A to Z, 0 to 9, - (hyphen), and _ (underscore).

Function Menu

Functions below are executed from the **Function** menu.



◆ Print System Settings

Prints the system settings.

◆ Print Print Settings

Prints the Print settings.

◆ Print Copy Settings **MF**

Prints the copy function settings.

◆ Print Submission Settings **MF**

Prints the submission function settings.

◆ Print All Settings

Prints all the settings above.

◆ Print for Fax Transmission

Prints the accounting information based on the customer's maintenance contract so that the customer can send it to OKI Data Infotech by fax.

◆ Print Error Log

Prints five A4 size pages of error logs starting from the most recent.

◆ Print Engine Information

Prints the engine information.

◆ Print Scanner Information **MF**

Prints the scanner information.

◆ Initialize Port Accounting Information

Initializes the accounting information (number of pages printed at each channel/port) stored in the printer's nonvolatile memory.

◆ Print Port Accounting Information

Prints the accounting information (number of pages printed at each channel/port) stored in the printer's nonvolatile memory.

◆ Initialize for Std Use

Initializes the Printer settings.

◆ All Output Trays to On

◆ All Output Trays to Off

Sets all settings related to A3 Tray output to **On** or **Off**.

This function setting has an impact on the following parameters.

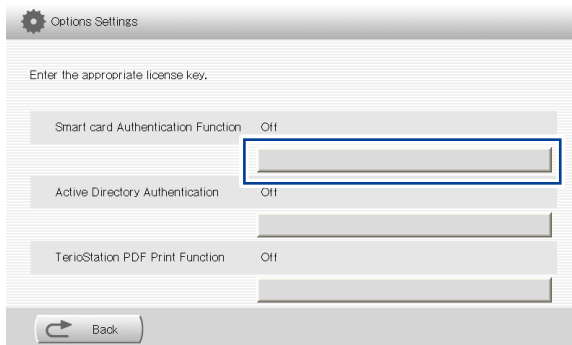
- Output tray of all ports (HP-GL, D-SCAN, TIFF, CALS) in the PDL Settings menu.
- Output tray of Copy (default and 10 presets)
- Output tray of Digital Sorting (default and 10 presets)
- Output tray of Submit to Folder (default and 10 presets)
- Output tray of Submission Job Box (default and 10 presets)
- Output tray of E-mail Scan Data (default and 10 presets)
- Output tray of USB Drive Submission (default and 10 presets)
- Output Report to Tray in the Printer Engine menu

◆ PDL Setting Print (Port 1 to 20)

Prints PDL settings for each port.

Options Settings Menu

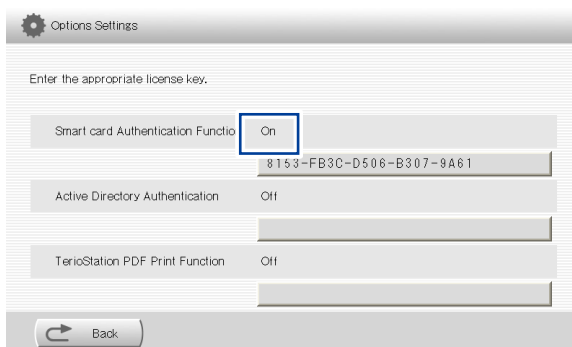
To enter an option code, press the input box of the corresponding option.



Enter the option code on the screen displayed below.



After entering the code, press the **Enter** button.



Check that the option corresponding to the code you have entered is set to On.

* The Printer restarts when you exit the menu after entering an option code.

Submission Destination Setting Menu

In the Submission Destination Settings menu, configure the settings so that image files created by PDC or Submit to folder (**MF**) are transferred directly to:

- a shared folder of a computer; or
- a FTP server connected to the network

without being stored in the hard disk drive of the Printer.

The following printer functions require submission destination settings.

- PDC function ( **page 147**)
- Submit to folder function (**MF**)
- Thumbnail submission function (**MF**)

See the *User's Manual for Multifunction Printer Operation* for details on how to create a shared folder and set a submission destination.



TIP

- ◇ When files are to be stored in the hard disk drive of the Printer, such as in the PDC box or submission box (**MF**), submission destinations do not have to be set for operation.
- ◇ Files stored in the hard disk drive of the Printer can be accessed using the WEB functions or TerioStation2 (exclusive application).

Select the submission destination number to be preset, and then press **Add/Edit**.

Configure the following settings.

■ Protocol

Select the protocol.

<Parameter by selecting options> ■: Default value

■ SMB	Submits to a shared folder of a computer.
FTP	Submits to a FTP server.

■ Shared server name selection (Server Selection)

Configure the connection server name.

<Parameter by selecting options> ■: Default value

■ IP Address	Connects by IP Address.
Host name	Connects by host name.
FQDN	Connects by fully qualified domain name (FQDN).

■ IP Address

When IP Address was selected for Shared server name selection, enter the IP address (IPv4/IPv6) of the host computer.

<Parameter by entering characters in IPv4/IPv6 format>

0 to 63 characters

■ Host Name (SMB connection only)

When **Host name** has been selected for **Shared server name selection**, enter the name of the host computer.

<Parameter by entering characters>

0 to 15 characters

■ FQDN

When **FQDN** has been selected for **Shared server name selection**, enter the fully qualified domain name (FQDN) of the host computer.

<Parameter by entering characters>

0 to 255 characters

■ Submission destination name (Preset Name)

Specify the submission destination name.

<Parameter by entering characters>

1 to 15 characters



TIP ◇ With Web functions, submission destination names can be registered in multiple languages.

■ Windows domain

Enter the Windows domain.

<Parameter by entering characters>

1 to 15 characters

■ User Name

Enter the user name of the host computer.

<Parameter by entering characters>

0 to 63 characters

■ Password

Enter the password to log in as the user of the host computer.

<Parameter by entering characters>

0 to 63 characters

■ Shared path name (Shared Path)

When the protocol is set to SMB, enter the shared path name (shared folder name) of the host computer.

When the protocol is set to FTP, specify the path of a folder at the submission destination.

<Parameter by entering characters>

0 to 128 characters



TIP ◇ Multiple languages entry is performed with Web functions.

■ FTP Connection Mode

Select the connection mode for when FTP connection is selected.

<Parameter by selecting options> ■: Default value

■ Active

Passive

■ FTP Port

Configure the FTP port.

- Generally, the default setting of 21 is acceptable.

<Parameter by selecting numbers>

1 to 65535

Default value: 21

■ Call Settings Preset (for Submit to folder only)

Specify whether to call a preset from memory for each submission destination automatically.

<Parameter by selecting options> ■: Default value

■ No

Yes

If **Yes** is selected for **Call Settings Preset**, specify the preset to be called.

<Parameter by selecting numbers>

1 to 10

Adjustment Menu

Adjusts the touchpanel calibration value and brightness.

■ Touchpanel Calibration

When the touchpanel coordinates are misaligned with the LCD's coordinates, the Printer may not detect the pressed position correctly.

In such a case, calibrate the touchpanel coordinates by operating the calibration screen following the instruction on the screen.

■ Panel Brightness Adjustment

Adjusts the panel brightness.

<Parameter by selecting options> ■: Default value

Bright	Slightly Bright	■ Normal
Slightly Dark	Dark	

Smart card settings Menu

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

Chapter
5

Authentication
Function

Chapter
6

Troubleshooting

Appendix

The Smart card settings menu is displayed when the smart card option has been enabled.

See  **page 156** for details on how to enter an option code.

If the settings have been modified in the Smart card settings menu, the Printer restarts when you exit the menu screen.

Note

- ◆ Use the default values for all the smart card settings.
The function may malfunction if the settings are modified.



Import/Export Menu

The Import/Export function makes it possible to transfer the Printer settings as follows.

- When replacing a printer
Transfer of LP-2050/LP-1030 model (previous model) settings to this Printer
- When acquiring a new printer
Transfer of the settings of this Printer to another LP-2060 or LP-1040 model
- For backup
Saving of the Printer settings for backup

Note

- ◆ When exporting and importing settings, make sure the latest firmware version is installed on both the printer from which the settings are exported and the printer to which the settings are imported.

Settings that can be transferred

Setting	Remark
Paper	
Printer Engine	
System	
Ports Settings	
PDL Settings	
User Authentication Settings	
User Registered Information	
Project	
Submission to Folder Destination Settings	
Image Submission Settings	*Previous model
Submit Print Job Destination Settings	
Copy Settings for Copy >> Presets 1 to 10	
Copy Settings for Copy >> Default	
Copy Settings for Digital Sorting >> Presets 1 to 10	
Copy Settings for Digital Sorting >> Default	
Settings for Submission to Folder >> Presets 1 to 10	
Submission Settings (Image Submission) >> Presets 1 to 10	*Previous model
Settings for Submission to Folder >> Default	
Submission Settings (Image Submission) >> Default	*Previous model
Settings for Submission Job Box >> Presets 1 to 10	
Settings for Submission Job Box >> Default	
Settings for Submit Print Job >> Presets 1 to 10	
Settings for Submit Print Job >> Default	
Settings for E-mail Scan Data >> Presets 1 to 10	
Settings for E-mail Scan Data >> Default	
USB drive submission settings >> Presets 1 to 10	
USB drive submission settings >> Default	
Print Job Box Settings	

Settings that cannot be transferred

Setting	Remark
Options	
System >> Communication Parameters >> Network Settings >> Common Settings >> IP Address	
System >> Communication Parameters >> Network Settings >> Common Settings >> Subnet Mask	
System >> Communication Parameters >> Network Settings >> Common Settings >> IPv6 Connection	
System >> Communication Parameters >> Network Settings >> Common Settings >> IPv6 Address Manual Setting	
System >> Communication Parameters >> Network Settings >> E-mail Scan Data Settings >> Subject	
System >> Printer Settings >> Common Setting >> Language	
PDL Settings >> Port1_HP-GL >> Paper Parameters >> Output Tray	*Same for ports 2 to 20
PDL Settings >> Port1_D-SCAN >> Paper Parameters >> Output Tray	*Same for ports 2 to 20
PDL Settings >> Port1_TIFF >> Paper Parameters >> Output Tray	*Same for ports 2 to 20
PDL Settings >> Port1_CALS >> Paper Parameters >> Output Tray	*Same for ports 2 to 20
Adjustment >> Panel Brightness Adjustment	
Administrator Settings >> Printer Administration >> Privileges: Printer	
Administrator Settings >> Printer Administration >> Edit submission dest./memory	
Administrator Settings >> Printer Administration >> Activate Remote Maintenance	
Administrator Settings >> Register Supervisor	
Administrator Settings >> Register User Administrator	
Copy Settings for Copy >> Presets 1 to 10 >> Paper >> Output Tray	
Copy Settings for Copy >> Default >> Paper >> Output Tray	
Copy Settings for Digital Sorting >> Presets 1 to 10 >> Paper >> Output Tray	
Copy Settings for Digital Sorting >> Default >> Paper >> Output Tray	
Settings for Submission to Folder >> Presets 1 to 10 >> Paper >> Output Tray	
Settings for Submission to Folder >> Presets 1 to 10 >> Paper >> Output Tray	*Previous model
Settings for Submission to Folder >> Default >> Paper >> Output Tray	
Settings for Submission to Folder >> Default >> Paper >> Output Tray	*Previous model
Settings for Submission Job Box >> Presets 1 to 10 >> Paper >> Output Tray	
Settings for Submission Job Box >> Default >> Paper >> Output Tray	
Settings for E-mail Scan Data >> Presets 1 to 10 >> Paper >> Output Tray	
Settings for E-mail Scan Data >> Default >> Paper >> Output Tray	
USB drive submission settings >> Presets 1 to 10 >> Paper >> Output Tray	
USB drive submission settings >> Default >> Paper >> Output Tray	

The two models, printer model and multifunction model, that can use the import/export function may have different configurations, such as different number of rolls and ports.

The settings are transferred as follows when transferring all settings between different models and models with different configurations.

(1) Transferring from a printer model to a multifunction model

When transferring all settings from a printer model to a multifunction model, the settings supported by the printer model are transferred, but the settings of function supported only by multifunction models, such as copy, submission and scan, are set to their default values.

(2) Transferring between printers with different number of rolls

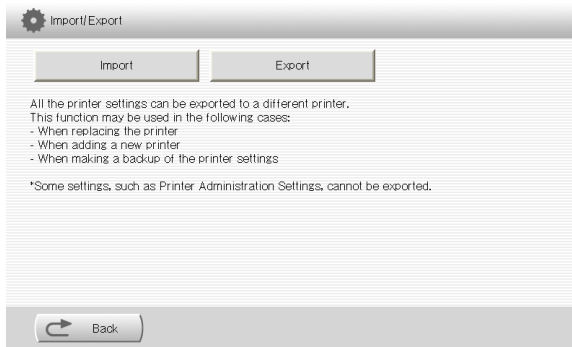
When transferring settings from a model with 2 rolls to this printer (which has 4 rolls), the settings for the rolls 3 and 4 that do not exist are set to the default values.

(3) Transferring between printers with different number of ports

When transferring settings from a model with 10 ports to this printer (which has 20 ports), the settings for the ports that do not exist are set to the default values.

◆ Export Operation

Connect a USB drive to the USB port at the rear of the Printer.
On the Export/Import screen, press the **Export** button.



Press the **Export Destination** button to display the selection screen for the export folder on the USB drive.
Select the export folder and then press the **OK** button.

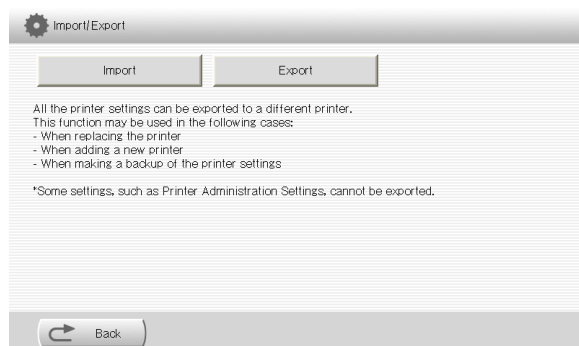


An export file is created in the folder specified on the USB drive.

◆ Import Operation

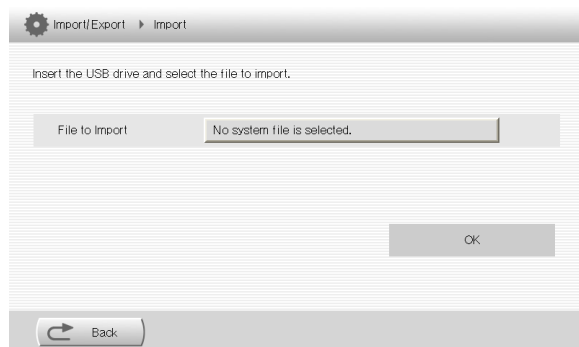
Connect the USB drive containing the export file to the USB port at the rear of the Printer.

On the Export/Import screen, press the **Import** button.



Press the **File to Import** button to display the content of the folder on the USB drive.

Select the export file and then press the **OK** button.



After the import process is finished, the Printer will restart when you exit the menu screen.

Date and Time Settings Menu

This menu configures the date (year, month, day) and the time (hours, minutes, seconds) of the Printer.

Enter the time in the 24-hour clock system.

These settings are used when printing menus, and when saving error logs and job logs.

Chapter

1

Before Use

Chapter

2

Basic Operations

Chapter

3

Menu Functions

Chapter

4

Print Job Box Function

Chapter

5

Authentication Function

Chapter

6

Troubleshooting

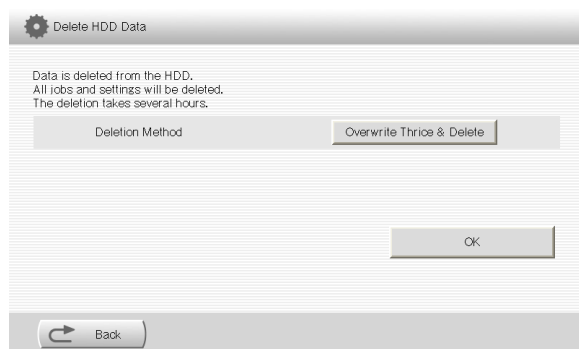
Appendix

Delete HDD Data Menu

You have the possibility to delete the entire content of the Printer HDD when necessary, for example when disposing of the Printer.

Doing so will delete all settings and all jobs.

Several hours are necessary for this operation.



■ Deletion Method

Select the deletion method.

<Parameter by selecting options> ■: Default value

Overwrite Once & Delete

■ Overwrite Thrice & Delete

Deletion is even more effective.

Chapter 4

Print Job Box Function

This chapter explains the Print Job Box function of the Printer.

Chapter Contents

▼ Overview of the Print Job Box Function	172
▼ Print Job Box Settings Menu	173
▼ Print Job Box Operation	175
▼ Using Smart Cards with the Print Job Box Function	178

Overview of the Print Job Box Function

Chapter

1

Before Use

Chapter

2

Basic Operations

Chapter

3

Menu Functions

Chapter

4

Print Job Box Function

Chapter

5

Authentication Function

Chapter

6

Troubleshooting

Appendix

The Print Job Box function is used to store print jobs in the Printer HDD without printing them just after they have been received, and to print them later via an operation on the Printer panel by the user.

Using the Print Job Box function allows you to reduce the number of misprints and documents left unattended after they have been printed.

The same benefits can be obtained with the user authentication function, but the Print Job Box function does not require the administrator to register users and perform other time-consuming operations.

The Print Job Box function makes it possible to easily reduce costs without having to register users.

Moreover, using this function becomes even simpler when it is operated together with smart cards.

Note

- ◆ This function cannot be used together with the print authentication function.

Print Job Box Settings Menu

This menu configures the print job box function.

Print Job Box Settings

Activate Print Job Box	On	
Print Jobs Storing Time	3	Hour(s)
Display Print All Button	Yes	

Back

■ Activate Print Job Box

When the print job box function is set to **On**, the Printer does not immediately print the print jobs upon reception but stores them inside the Printer. You can print the print jobs that have been stored using the print operation.

<Parameter by selecting options> ■: Default value

On	The print job box function is used.
■ Off	The print job box function is not used.

■ Print Jobs Storing Time

Sets the time the print jobs are stored in the print job box.

The print job is deleted if the set time passes after the print job has been received, and if it has not been printed.

<Parameter by selecting numbers>

1 to 199	Default value: 3 Unit: hours
----------	------------------------------

■ Display Print All Button

Sets whether or not to display the Print All button on the print job box screen.

A button to select and print the print jobs is normally displayed on the print job box screen. With this button, you can check the name of the job files for the stored print jobs before selecting and printing the jobs. When the **Print All** button is displayed, you can print all the print jobs at once without checking the names of the job files.

<Parameter by selecting options> ■: Default value

■ Yes

The **Print All** button is displayed.

No

The **Print All** button is not displayed.

**TIP**

◇ When the optional IC card authentication function is used, the jobs in the print job box can be easily printed using the IC card.

Print Job Box Operation

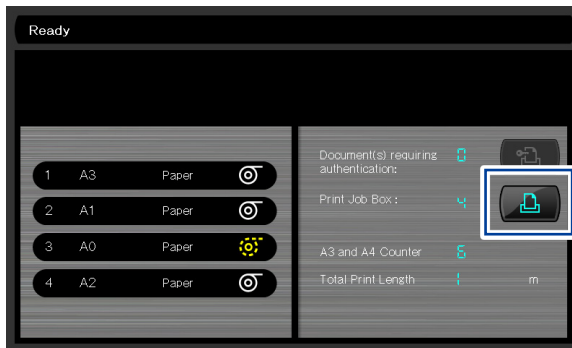
(1) Print from the printer driver.

Print from the printer driver.

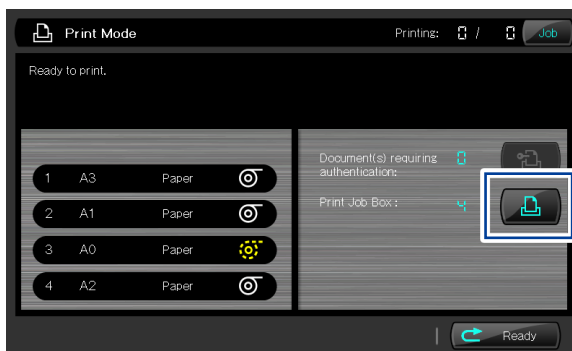
The print job is not printed immediately but stored in the Printer until the printing operation is performed.

(2) Press the Print Job Box button.

Press the Print Job Box button on the Ready screen or the Print Mode top screen.



Ready screen



Print Mode top screen

(3) Look for your user name.

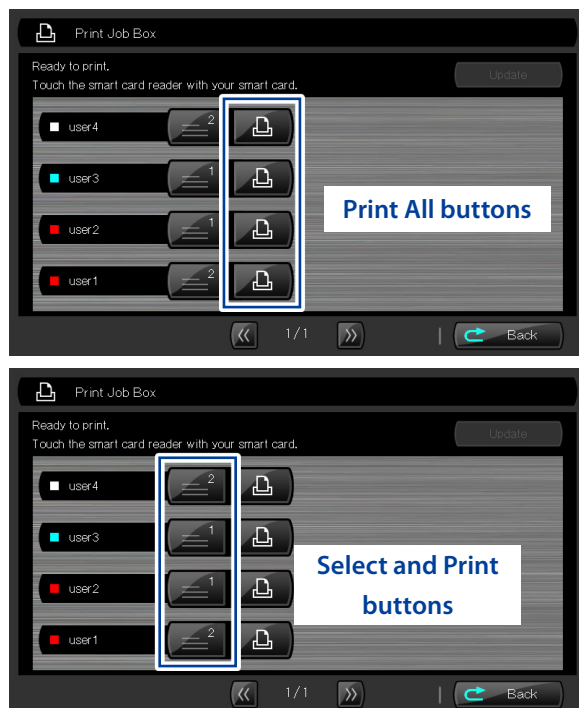
A user list corresponding to the print jobs stored is displayed on the screen.

The user names are the login names used when logged in to the computer used to print with the printer driver.

Look for your user name and press the corresponding Print All button to print all your print jobs that have been stored.

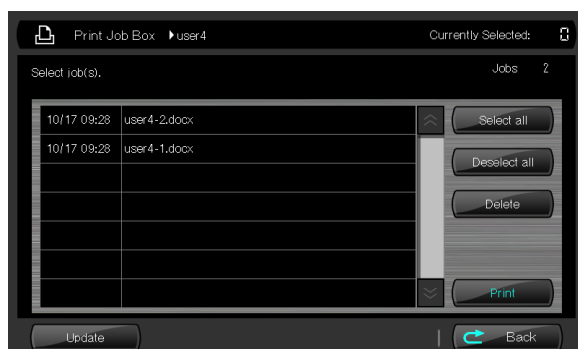
You may also press a Select and Print button to select the jobs you want to print.

Print All buttons are not displayed when the **Display Print All Button** parameter is set to **No**.



(4) Select the jobs you want to print.

The screen below is displayed when you press a Select and Print button.
On this screen, you can make a selection, and delete and print jobs.

**Note**

- ◆ The Print Job Box function cannot be used with FTP/XPT connection, which does not use the printer driver connection.
- ◆ With LPR connection, which does not use the printer driver connection, **Host character encoding** must be set to either **ASCII/UTF-8** or **ShiftJIS** (see [page 116](#)).

Using Smart Cards with the Print Job Box Function

Chapter

1

Before Use

Chapter

2

Basic Operations

Chapter

3

Menu Functions

Chapter

4

Print Job Box Function

Chapter

5

Authentication Function

Chapter

6

Troubleshooting

Appendix

The Print Job Box function is even more convenient if used together with smart cards.

* The smart card reader is optional.

◆ Preparation

(1) Install the smart card reader.

See the separate smart card reader leaflet for the installation procedure.

(2) Enable the smart card option.

See  **page 156** for details on how to enter the option code.

(3) Configure the smart card settings.

See  **page 162** for details on smart card settings.

◆ Smart Card Registration Procedure

(1) Register the smart card.

Print from the printer driver and press the Print Job Box button.

On the user selection screen that is displayed, press the Register button at the top right corner.



(2) Select a user.

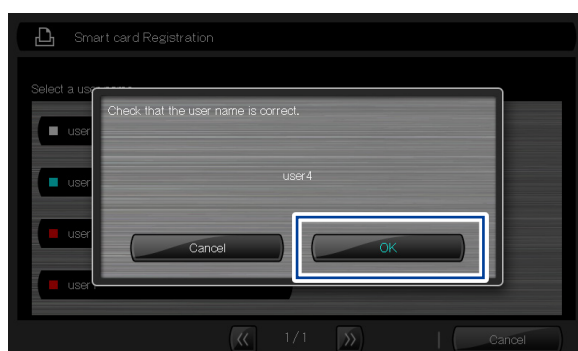
Press your own user name from the list of users who can register a smart card.

The user names are the login names used when logged in to the computer used to print with the printer driver.



(3) Confirm the user.

Press **OK** if the user is correct.

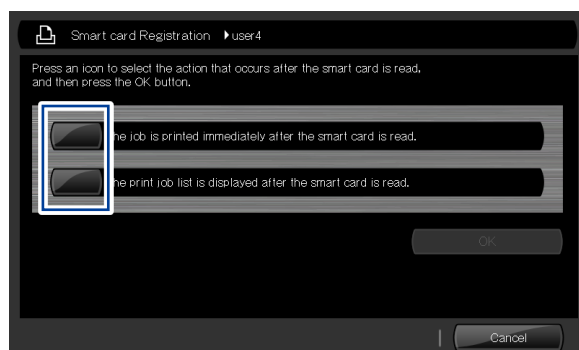


(4) Select the operation that will be performed when the smart card will be read.

Select the operation that will be performed when the smart card will be read and press **OK**.

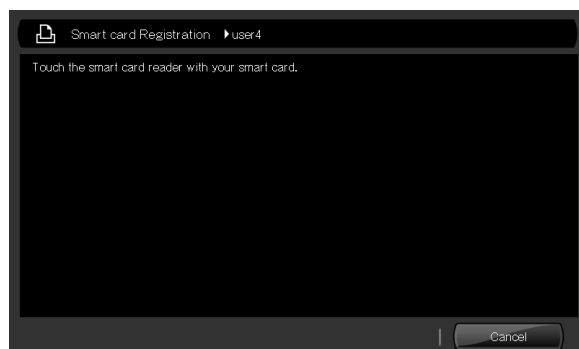
This screen is not displayed when the **Display Print All Button** parameter is set to **No**.

In such a case, operation is performed as with **The print job list is displayed after the smart card is read**.



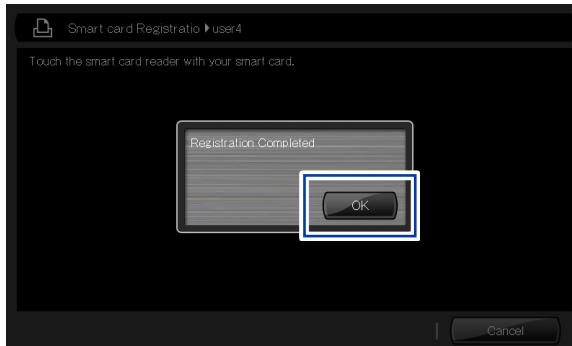
(5) Read the smart card with the reader.

When the screen below is displayed, read the smart card with the reader.



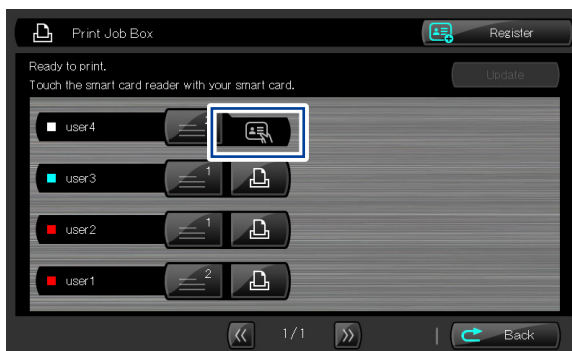
(6) Complete the registration.

The screen below is displayed when the smart card registration is complete.
Press **OK**.



(7) Confirm the smart card registration.

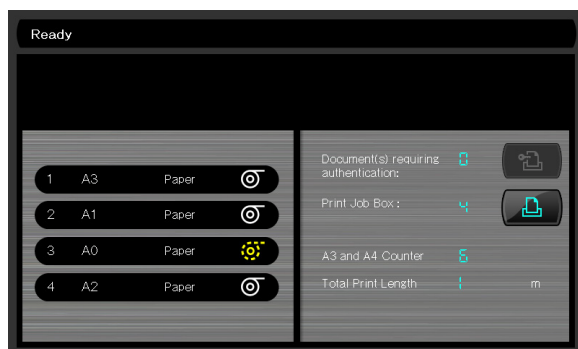
A smart card icon is displayed as shown below for users who have registered a smart card.



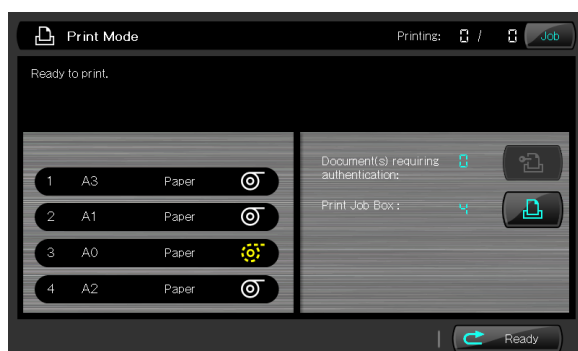
◆ Print Procedure Using a Smart Card

(1) Print from the print job box.

Press the Print Job Box button on the Ready screen or the Print Mode top screen.



Ready screen



Print Mode top screen

On the screen below, jobs in the print job box can be printed by reading the smart card with the card reader.



If you have selected **The job is printed immediately after the smart card is read** when you registered the smart card, all your jobs are printed when you read your smart card with the card reader.

If you have selected **The print job list is displayed after the smart card is read** when you registered the smart card, a list of your print jobs is displayed when you read your smart card with the card reader.

Then, you can select jobs to print or delete them.

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

Chapter
5

Authentication
Function

Chapter
6

Troubleshooting

Appendix

Chapter 5

Authentication Function

Chapter 5 describe the authentication function for the Printer.

Chapter Contents

▼ Authentication Function Overview	186
▼ Printer Administration.....	189
▼ User Authentication	198
▼ Smart Card Registration Procedure	222

Authentication Function Overview

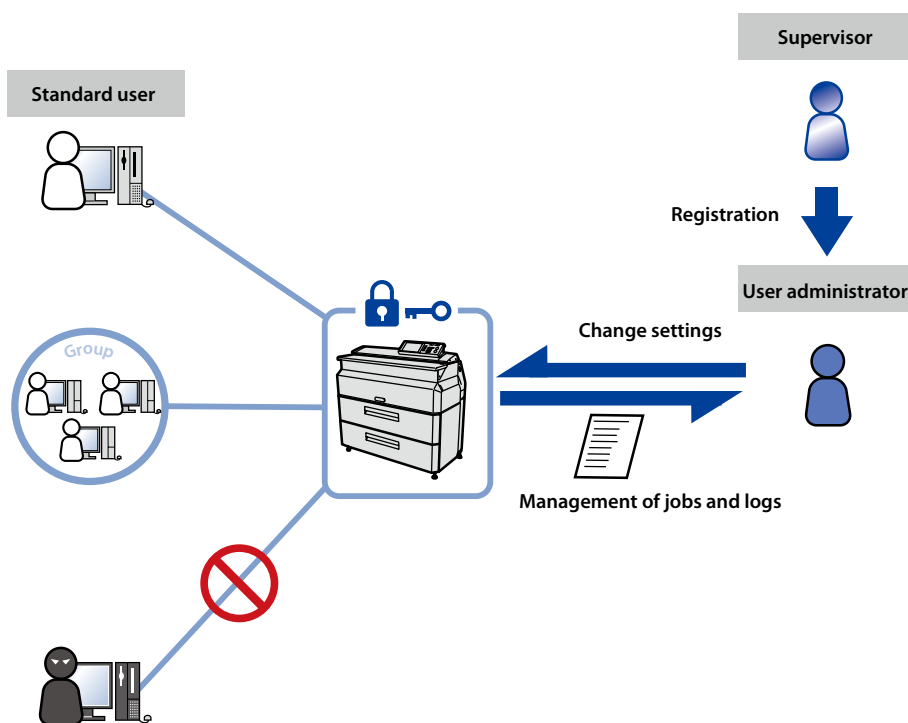
The authentication function of the Printer allows administrators to manage the Printer and its users.

■ Printer administration (📖 page 189)

The authentication function allows the administrators to administrate the Printer operations such as:

- To change the Printer settings;
- To initialize the Printer; and
- To acquire log information,

which are not allowed to non-administrators with the function.



■ User authentication (📖 page 198)

Individual users of the Printer are issued a unique authentication code (a PIN code or login name and password). When a user operates the Printer, the authentication code is required to identify the user.

With the authentication function, users without an authentication code cannot operate the Printer.

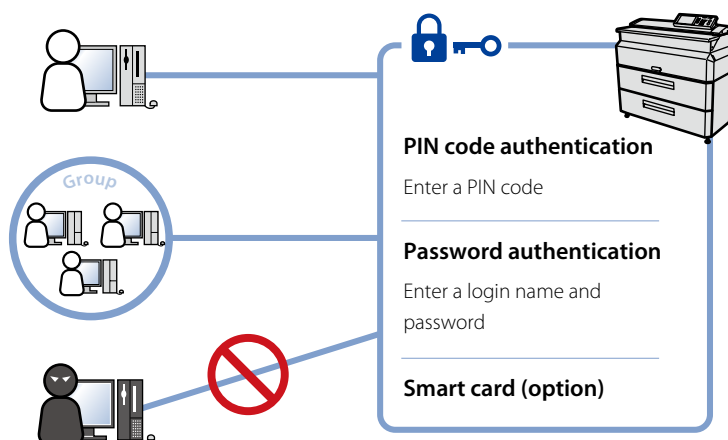
The PIN code and password authentication functions can be used together with the smart card option.



TIP

◇ **Example: The two following authentication methods are possible when the smart card function option is used together with PIN code authentication.**

- The users enter directly a PIN code on the operation panel to authenticate themselves.
- The users use smart cards to authenticate themselves.



■ ActiveDirectory authentication

This is an optional user authentication function for devices that use user databases registered in Active Directory.

This allows you to manage the Printer and other Active Directory compatible devices together.

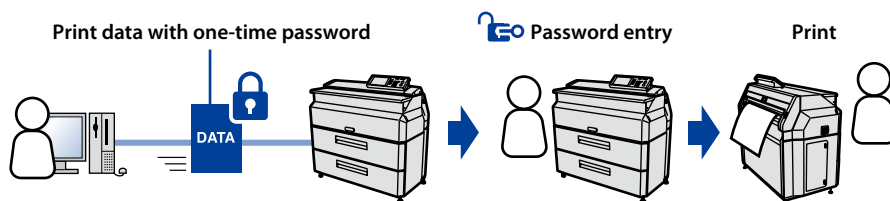
This function is convenient when you want to register a large number of users. For details about Active Directory registration, contact a service representative.

■ One-time password authentication (📖 page 218)

This is an authentication method for print mode only.

Set the one-time password with the printer driver when the Printer prints highly confidential drawings without user authentication.

With the one-time password specified, the Printer does not print data it receives until the password is entered from the operation panel.



Printer Administration

To manage the Printer, first register an administrator and then enable printer administration.

Administrator registration allows the following printer administration operations.

- Prevent changes to the Printer settings by unspecified users.
- Prevent access to the Printer logs by unspecified users.
- Prevent access or initialization of accounting information by unspecified users.
- Prevent access to the Printer setting information by unspecified users.
- Standard-user job operations by user administrators.
- Registration for user authentication by user administrators.
- Printer version upgrades by user administrators.

◆ User Administrators and Standard Users

When printer administration is enabled, standard users can copy, submit, scan, and print. However, only user administrators can perform actions such as changing the Printer settings.

To enable printer administration, one supervisor and one user administrator are required.

Administrators are classified into two as follows.

- Supervisor (up to three can be registered)
- User administrator (up to five can be registered)

The following management privileges can be assigned to individual user administrators.

- Printer administration
- Job management
- Log management

Class		Main activities
Administrator	 Supervisor	1. Switching printer administration on and off 2. Registration and management of other supervisors 3. Registration and management of user administrators Under initial condition, a default supervisor is registered. Up to three supervisors can be registered.
	 User administrator	1. Changing the Printer settings 2. Acquiring logs 3. Special job operations Up to five user administrators can be registered
	 Standard user	Copying, submitting, scanning, and printing

For the printer administration, the supervisor's activities are different from the user administrator's. Besides, user administrators have additional activities depending on the privileges they received.

The burden of individual administrators can be lessened by registering multiple supervisors and user administrators. Dividing privileges among multiple user administrators will also prevent improper operations by individual user administrators. The operation privileges of the operation panel and Web functions for administrators and standard users are shown below.

Operation privileges on the operation panel

YES: Can be performed without restrictions

NO: Cannot display the screens or change the settings

Menu Mode	Printer administration disabled					Printer administration effective				
										
		Printer settings Log management	Job list Log management	Log acquisition Log management			Printer settings Log management	Job list Log management	Log acquisition Log management	
Printer information	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paper	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Printer Engine	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
System	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Port settings	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
PDL settings	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Function	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Option settings	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Adjustment	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Upgrade	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Administrator settings	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Supervisor registration	No ^{*1}	No ^{*1}	No ^{*1}	No ^{*1}	Yes	No	No	No	No	No
User administrator registration	No ^{*1}	No ^{*1}	No ^{*1}	No ^{*1}	Yes	No	No	No	No	No
Administrator login ^{*3}	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User authentication settings	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Help	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Submission destination registration	Yes	Yes	Yes	Yes	Yes	No ^{*2}	Yes	No ^{*2}	No ^{*2}	No ^{*2}
Print job box settings	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Smart card settings ^{*4}	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Import/Export	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Date and time settings	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Enter product key	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Delete HDD data	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Memory registration MF	Yes	Yes	Yes	Yes	Yes	No ^{*2}	Yes	No ^{*2}	No ^{*2}	No ^{*2}

^{*1}: Even if Printer Administration is set to Off, supervisor privileges are necessary to register a supervisor or an administrator.

^{*2}: When Edit submission destination/memory is set to Allow edit, changes can be made without printer administration privileges.

^{*3}: For actual login, authentication is required using a login name and password.

^{*4}: Displayed only when the smart card option is enabled.

Operation privileges on the Web

Supervisor authentication cannot be performed on the Web. Consequently, supervisors have the same privileges as standard users on the Web.

Yes: Can be performed without restrictions, No: Not possible

Partially: Access only. Settings cannot be changed.

Menu mode		Printer administration disabled	Printer administration effective		
		Standard user/ Supervisor/ User administrator	Standard user	User administrator	
				Printer administration	Job management Log management
Printer information		Yes	Yes	Yes	Yes
Status		Yes	Yes	Yes	Yes
Job	Copy job MF	Yes	Yes	Yes	Yes
	Submission job MF	Yes	Yes	Yes	Yes
	Scan job MF	Yes	Yes	Yes	Yes
	Print job	Yes	Yes	Yes	Yes
	Submission box MF	Yes	Yes	Yes	Yes
Setup	PDC box	Yes	No	No	Yes
	Paper	Yes	Partially	Yes	Partially
	Printer Engine	Yes	Partially	Yes	Partially
	Communication parameters	Yes	Partially	Yes	Partially
	Available size standards	Yes	Partially	Yes	Partially
	Paper size standards	Yes	Partially	Yes	Partially
	User defined standards	Yes	Partially	Yes	Partially
	Printer settings	Yes	Partially	Yes	Partially
	Port settings	Yes	Partially	Yes	Partially
	PDL settings	Yes	Partially	Yes	Partially
	Submission destination setting	Yes	Partially ^{*1}	Yes	Partially ^{*1}
		Yes	Partially ^{*1}	Yes	Partially ^{*1}
	Maintenance	Yes	No	Yes	No
	Log acquisition	Yes	No	No	Yes
	Job administration	Yes	No	No	Yes
	Accounting information	Yes	No	Yes	No
	Maintenance information acquisition	Yes	No	Yes	No
	Upgrade	Yes	No	Yes	No
	All ports/All PDL import/export	Yes	No	Yes	No
	Special maintenance	Yes	No	Yes	No
	User registration	Yes	No	Yes	No
	Project registration	Yes	No	Yes	No
	ActiveDirectory user verification	Yes	No	Yes	No
	Acquire user name from LPR file name	Yes	No	Yes	No
	Printer Engine Maintenance	Yes	No	Yes	No
	Scanner Maintenance	Yes	No	Yes	No
	Import/Export All Settings	Yes	No	Yes	No

*1: This mode is available when Submission destination / Preset editing is set to Permit in Printer Administration.

In the initial condition with printer administration enabled, only user administrators with printer administration privileges can edit:

- Submission destinations in submission mode; and
- Registration memory in copy/submission mode.

However, by changing settings, standard users can also perform editing.

(📖 page 193)

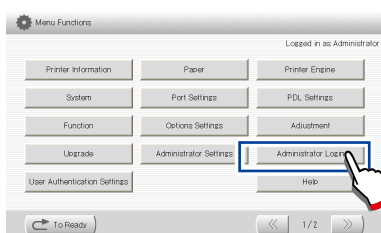
◆ Registering a Supervisor

1



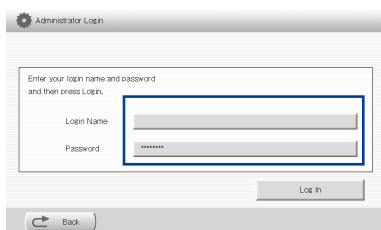
Press **MENU**.

2



Press **Administrator Login**.

3



Enter a login name and password and then press **Login**.

The first time you register a supervisor, login using the default login name and password.

Login name: supervisor

Password: (blank)

4

After login, the menu top screen is displayed again. Press **Register Supervisor** in **Administrator Settings**.

5 Enter the login name and password of the supervisor to be registered, and then press OK.

Note

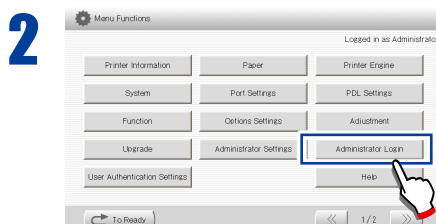
- ◆ Do not forget the login name and password of the supervisor.
- ◆ Do not share the login names and PIN codes for user authentication between the supervisors and user administrators.
- ◆ Supervisor 1 cannot be deleted.

◆ Registering User Administrators

To register an user administrator, you will have to login as a supervisor even if Printer Administration is set to Off



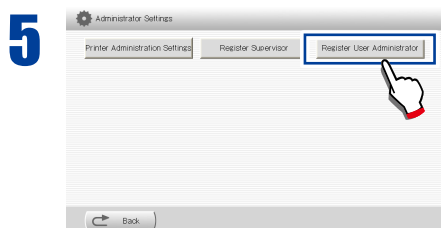
Press MENU.



Press Administrator Login.

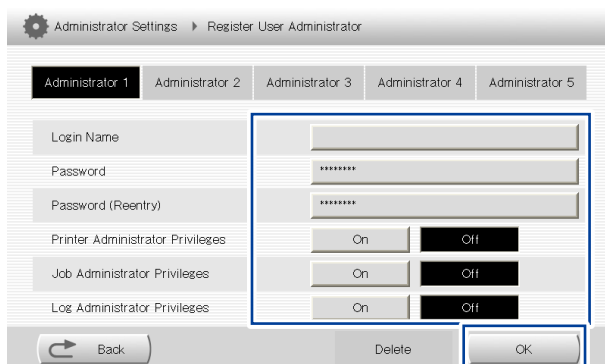
3 Enter a supervisor login name and password and then press **Login**.

4 After login, the menu top screen is displayed again. Press **Administrator Settings**.



Press **Register User Administrator**.

6 Enter the login name and password of the user administrator to be registered, set the administrator privileges, and then press **OK**.



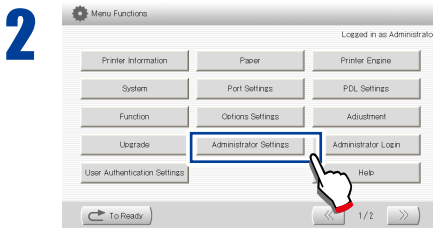
Note

- ◆ Do not forget the login name and password of the user administrator. If you forget this information, you will have to log in with supervisor privileges.

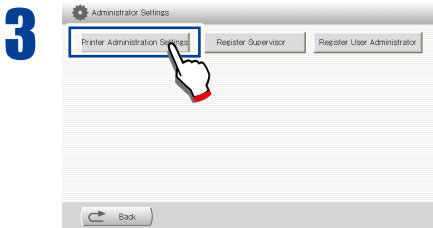
◆ Enabling Printer Administration

■ Supervisor or user administrator (with printer administration privileges)

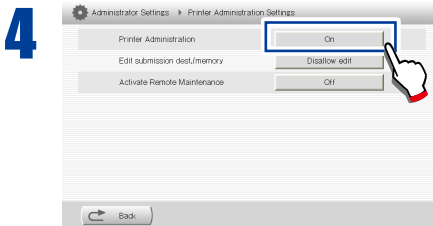
1 Press **MENU**.



Press **Administrator Settings**.



Press **Printer Administration Settings**.



Press **On** for Printer Administration.

Before changing Printer Administration to On, specify the supervisor and printer administrators correctly .

Note

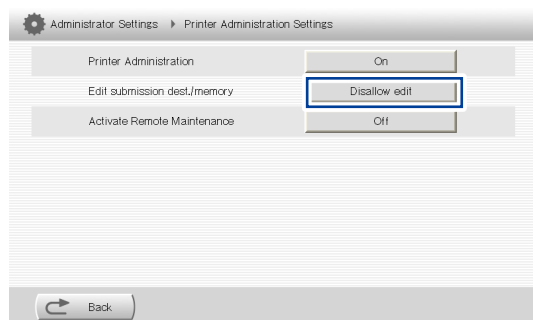
- ◆ If Printer Administration is set to On, later changes in settings must be performed by a supervisor or user administrator.
- ◆ To change Printer Administration from On to Off, you will have to login as a supervisor.

■ Edit submission destination/memory

In the initial condition with printer administration enabled, only user administrators with printer administration privileges can edit:

- Submission destinations in submission mode; and
- Registration memory in copy/submission mode.

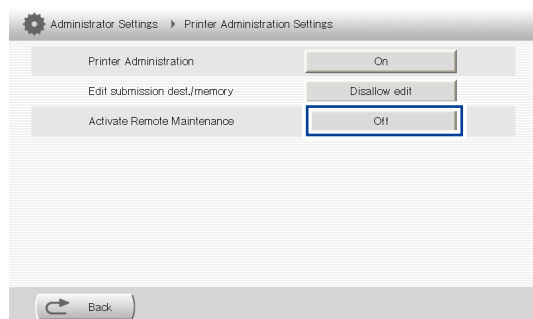
However, by changing settings, standard users can also perform editing.



Changing settings requires supervisor privileges or user administrator printer administration privileges.

■ Enabling remote maintenance

When requested to do so by our maintenance staff, set the remote maintenance function setting to On.

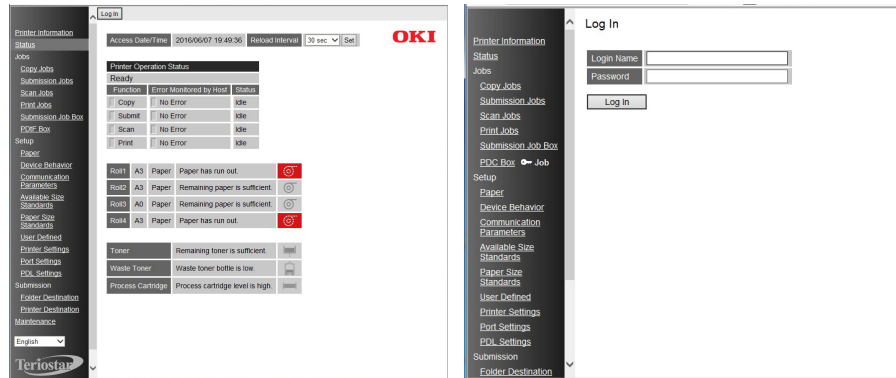


This setting must be changed by a user administrator with printer administration privileges.

■ Logging in and logging out using the Web function

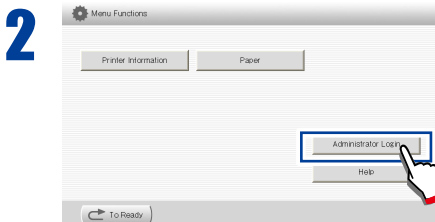
User administrators can log in and out using the Web function.

The Web function cannot be used for supervisor login.



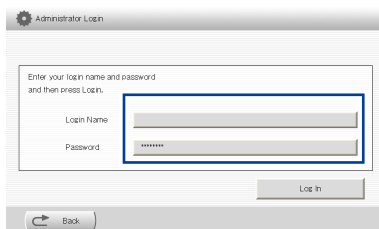
◆ Administrator Login

1 Press MENU.



Press Administrator Login.

The screen on the left is shown when Printer Administration is set to **Yes**.



Enter a supervisor or user administrator login name and password and then press Login.

If the Printer display returns to the standby screen after logging in, the user is logged out.

User Authentication

◆ Operation Guide for User Authentication

User authentication enables the following operations.

■ Only authorized users can use the printer.

Individual users of the Printer are issued a unique authentication code (a PIN code or login name and password). When the user operates the Printer, the authentication code is required to identify the user.

With the authentication function, users without an authentication code cannot operate the Printer.

The Printer can use the following two methods of authentication to confirm a user's identity.

- PIN code authentication

- ◇ Each user is assigned an authentication code (1 to 63 characters) called a PIN code.

- Password authentication

- ◇ Each user is assigned a login name (between 1 and 63 characters) and a password (between 0 to 31 characters) as an authentication code.



TIP

- ◇ Password authentication provides stronger security than PIN code authentication.

When using user authentication, an authentication code must be entered before using the Printer.



TIP

- ◇ Authentication using smart cards (option) can also be used together with PIN code authentication or password authentication.
- ◇ When using user authentication, you are recommended to set Printer Administration to On. When Printer Administration is On, only users with printer administration privileges can register Printer's users.

■ Apply printer usage restrictions by mode

Usage restrictions can be applied to copy, submission, scan, and print modes.

For example, it is possible to restrict print and copy modes, which use consumables such as paper and toner, to authorized users only, while allowing all users to use submission and scan modes, which do not use consumables.

■ Set usage restrictions for each user

The use of copy, submission, scan, and print modes can be set for each user.

For example, design department users are allowed to all modes while restricting accounting department users to copy and print modes.

■ Grasp of the usage status of each user

With user authentication, a job log is used to see who used what, when, and how much, which allows to investigate inappropriate printer usage outside of work hours, etc.

In addition, by using the included software (job log management tool*), you can calculate the usage amount of each user.

*: For more information about the job log management tool, contact a service representative.

■ Print from a specified computer without authentication

When user authentication is used in print mode, printing is possible only with the four methods below.

- Printing from the printer driver
- Printing from a MAC driver
- Printing from an HDI driver
- Printing from TerioStation2

In environments other than those mentioned above where authentication print is possible, all print data is generally deleted in the Printer.

However, if a host environment other than our software is present, like in personal computers or work stations, the Printer can be set to print the data sent from a specified computer without authentication.

■ During print authentication, authenticate using a computer name or host login user name

When performing user authentication in print mode, authentication is generally performed by the printer driver.

For print mode authentication, besides authenticated by the printer driver, a user is authenticated with a computer name or host login user name.

This authentication method enables the following operations.

- Print authentication using a computer other than a personal computer.
- No authentication code with the printer driver is required.

Note

- ◆ To use this function, print data must be sent with a LPR connection.
- ◆ To authenticate with a computer name, each user must have a dedicated computer.
- ◆ To authenticate with a login user name, each user must have a unique login user name.

■ High-security job operations are possible

With user authentication, the operation panel and the Web function display only the jobs of the user currently logged in on the following screens:

- Job operation screen (for print, copy, submit and scan);
- Submission box screen; and
- PDC box screen.

So your job cannot be monitored nor operated by other users.

◆ Printer Setting Procedure to Enable User Authentication Operation

1 Register a user (📖 page 202)

Register in the Printer a user that can use the Printer.

The following three methods are used to register users.

Operation panel	Convenient when registering a small number of users. User names can only contain alphanumeric characters.
Web function	Convenient when registering a small number of users. Multilanguage user names can be used.
User Maintenance tool* (Software)	Convenient when registering a large number of users. Multilanguage user names can be used. For details, see the Help section of the software.

Each user requires the user authentication settings such as available functions.

A maximum of 3000 users can be registered.

*: For more information about the user maintenance tool, contact a service representative.

2 Set user authentication (📖 page 205)

Specify the modes (copy, submit, scan, and print) in which the user is authenticated. After this setting is completed, only authorized users can operate the Printer in the specified modes requiring user authentication.

◆ Registering a User

The following three methods are used to register users.

- Registration from the operation panel
- Registration from a Web browser
- Registration from the user maintenance tool (dedicated software)

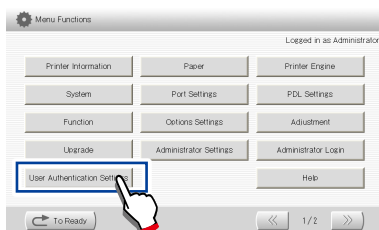
The following describes user registration from the operation panel.

When operating with the Web function, register users on the Maintenance function User Registration screen with the same method as the operation panel method.

For details regarding registration with the user maintenance tool, see the *User's Manual* of the software.

1 Press MENU.

2

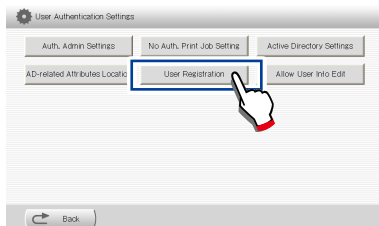


Press User Authentication Settings.

Note

- ◆ When Printer Administration is On, user administration settings are operated only by user administrators with printer administration privileges.

3



Press User Registration.

4 Press Register and then enter user registration information on the following screens.

Press OK.

The screenshots show the following fields:

- Screen 1:** No. (0), User Name, PIN Code, PIN code (Reentry), Login Name, Password, Password (Reentry), Available Functions (Copy, Submit, Scan, Print), Back, 1/3, OK.
- Screen 2:** Project Name 1-5, LPR Data for User ID (No LPR for identification), LPR Identification Name, E-mail Address, Back, 2/3, OK.
- Screen 3:** Proxy User 1-5, Back, 3/3, OK.

User Name (required)	1 to 63 characters
PIN Code (required)	1 to 63 alphanumeric characters
Login Name (required)	1 to 63 alphanumeric characters
Password	0 to 31 alphanumeric characters
Usable Functions	Select the functions that the registered user will be able to use.
Project Name	Register the projects (maximum of 5) in which the registered user is participating. 0 to 15 alphanumeric characters
LPR Data for User Identification	The setting is required for the print mode authentication without printer driver connections. Enabled only with LPR connection. No LPR for Identification: Select when: - Print mode authentication is not required; or - An authentication code is specified with the printer driver. User Name: Select when print mode is authenticated with a computer login user name. Host Name: Select when print mode is authenticated with a computer host name.
LPR Identification Name	When LPR Data for User Identification is set to User Name or Host Name , enter the user name or host name used by the user. 0 to 31 alphanumeric characters
E-mail Address	Set the e-mail address of the destination when using the E-mail scan data function. 0 to 127 alphanumeric characters
Proxy Users 1 to 5	Configure this setting when you want, with print authentication, to authorize a user (proxy user) other than yourself to print your print jobs. Register a PIN code or a login name for the proxy user. Up to five proxy users can be registered.



TIP

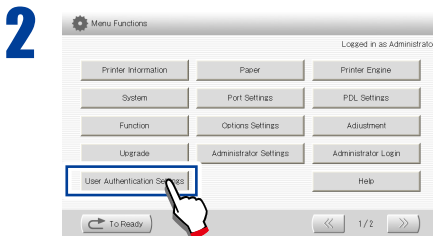
- ◇ When a user is involved in multiple projects, to perform accounting for each project, you are recommended to register the project names.
- ◇ For the PIN code or the login name, it is recommended to use the login name (user name) used by each user to log in the computer.
It is not necessary to configure the printer driver sheet for print authentication when the login name used to log in the computer is the same as the login name (PIN code) used to log in the Printer.

Note

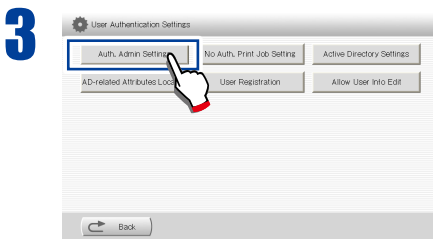
- ◆ When registering users from the operation panel, only alphanumeric characters can be entered. To enter the other characters, register users from a Web browser or the user maintenance tool.
- ◆ A user name and PIN code or login name must be entered.
- ◆ A maximum of 3000 users can be registered.
- ◆ We recommend you back up user registration information. Use the user maintenance tool to back up user registration information. For details, see the *User's Manual* of the user maintenance tool.
- ◆ The same login name cannot be used for supervisors, user administrators and users.
- ◆ A LPR identification name must be set when using LPR Data for User Identification. Specify a unique string of characters for the LPR identification name for each user.

◆ User Authentication Setting Procedure

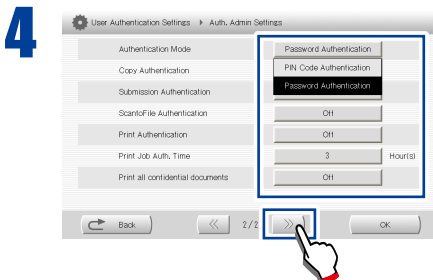
1 Press MENU.



Press User Authentication Settings.



Press Authentication Administrator Settings.



Set Authentication mode to:

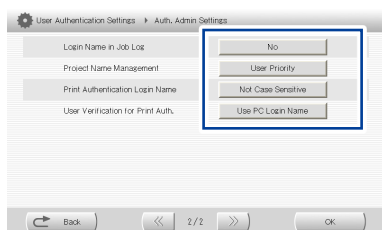
**PIN Code Authentication; or
Password Authentication**

Activate user authentication function at each of copy, submission, scan, and print modes with On.

Specify Print Job Authentication Time. Then check the box for Print all confidential documents.

Press >>.

5



Set Login Name in Job Log to Yes or No.

Set Project Name Management to User Priority or Common to All Users.

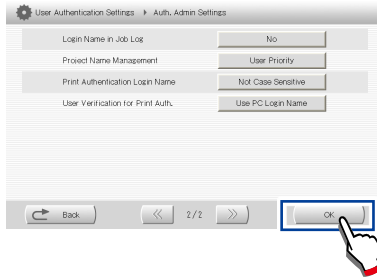
Set Print Authentication Login Name to Case Insensitive or Case Sensitive.

Set User Verification for Print Auth. to Use PC Login Name or Use PrinterDriver Setting.



TIP

- ◇ When Login Name in Job Log is set to Yes, the login name or PIN code specified in TerioStation2 or the printer driver is registered in the job log. Job logs can be output as excel files using the WEB tool.
- ◇ When Project Name Management is set to Common to All Users, the project name is not registered for each user but can be set in common for all users using the WEB tool.
 - * A project name cannot be registered in common for all users from the operation panel.
- Up to 100 project names can be registered.
- ◇ When you do not know if upper case or lower case characters are used for the print authentication login names on the connected computers, set Print Authentication Login Name to Case Insensitive.
- ◇ When Use PC Login Name is set for User Verification for Print Auth., set the same login name (PIN code) when registering the user as the login name used to log in the computer. The default setting is Use PC Login Name.

6**Press OK.**

After this setting is completed, only authorized users can operate the Printer in the specified modes requiring user authentication.

If the user authentication setting is changed, the Printer restarts when leaving the menu mode.

**TIP**

To use smart card authentication, you need to configure the **Smart card settings**.

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4Print Job Box
FunctionChapter
5Authentication
FunctionChapter
6

Troubleshooting

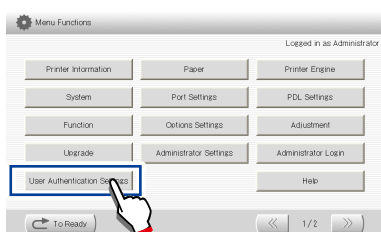
Appendix

◆ Allow User Info Edit

This function is used to give the rights to each non-administrator user to change passwords and register IC cards.

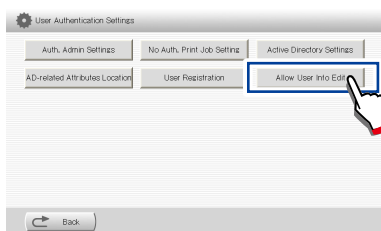
1 Press MENU.

2



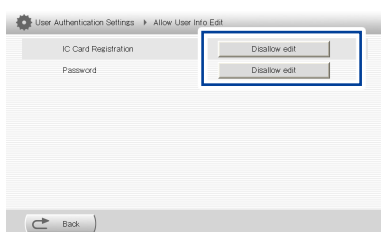
Press User Authentication Settings.

3



Press Allow User Info Edit.

4



Set to allow or disallow IC card registration.

Set to allow or disallow password modification.

◆ Overview of No Authentication Print Job Settings

When user authentication is used in print mode, printing is possible only with the four methods below.

- Printing from the printer driver
- Printing from a MAC driver
- Printing from an HDI driver
- Printing from TerioStation2

Print jobs sent from work stations or environments other than those mentioned above are all deleted.

By configuring the No Authentication Print Job Settings, you can, for example:

- use print authentication for jobs output from the printer driver, and
- do not use authentication for jobs output from a work station.

When not using authentication, you may decide between printing jobs immediately (Print immediately) and storing jobs to print them later (Store in the Printer).

◆ No Authentication Print Job Settings (Disabling Authentication from Specified Computers)

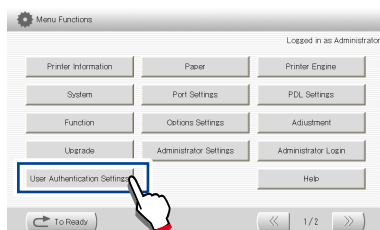
You can configure the settings so that user authentication is not used only for print jobs sent from specified host computers.

The computers are specified with their IP addresses.

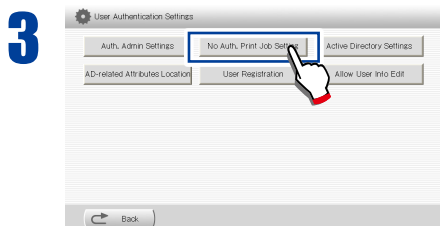
You can specify up to three computer IP addresses.

1 Press **MENU**.

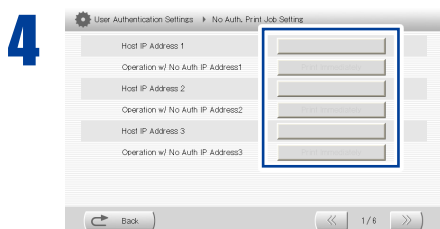
2



Press User Authentication Settings.



Press No Auth. Print Job Setting



Register the IP address of the host computer that can print without user authentication.

Up to three host computers can be registered. If the user authentication setting is changed, the Printer restarts when leaving the menu mode.

You can set the printing timing for each computer specified with an IP address. The printing timings are as follows.

- Print immediately
- Store in the Printer

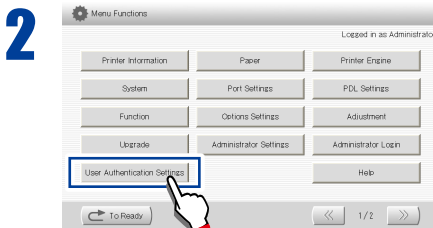
If you select **Print immediately**, the print data received from the computer for which you have specified the IP address will be printed immediately without being stored in the Printer.

See **page 212** for the printer operation when you select **Store in the Printer**.

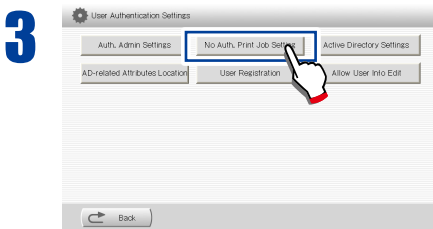
◆ No Authentication Print Job Settings (Disabling Authentication for Ports)

You can set whether or not to disable authentication for each logical port of the Printer.

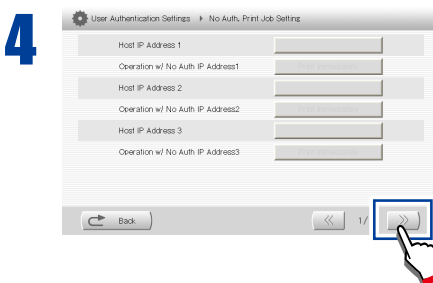
1 Press MENU.



Press User Authentication Settings.



Press No Auth. Print Job Setting



Press the >> button to display the second page.

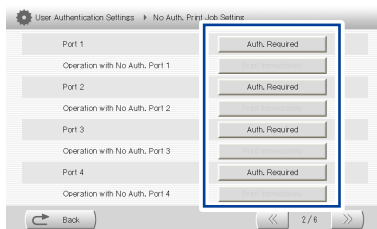
Set **Auth. Not Required** for each port for which you do not want to use authentication.

You can set **Operation with No Auth. Port** for each port that does not use authentication as follows.

- Print immediately
- Store in the Printer

If you select **Print immediately**, the print data received from the corresponding port will be printed immediately without being stored in the Printer.

See [page 212](#) for the printer operation when you select **Store in the Printer**.

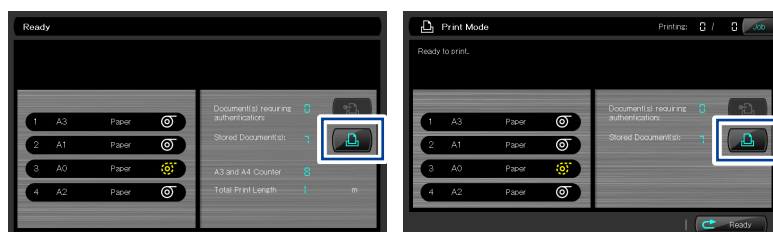


If you select **Store in the Printer**, the print jobs that do not require authentication will not be printed when received, but will be stored in the Printer until they are printed by a user operation.

This setting allows you to check and delete unnecessary jobs before printing, thus reducing printing costs.

Since the jobs that are not printed by operation of the user are automatically deleted after a given time, this setting also reduces the print queue and printouts that are left unattended.

When print jobs are stored in the Printer, the display of the Ready screen or the Print Mode top screen is as follows.



Press the Store in the Printer button to display the following print job selection screen.



You can make a selection in the list of file names of print jobs stored in the printer, and delete and print jobs.

Notes

- ◆ When storing jobs with XPT connection, the names of files are not displayed on the print job selection screen. In such a case, select the print jobs based on the reception date.
- ◆ When storing jobs with LPR or FTP connection, **Host character encoding** must be set to either **ASCII/UTF-8** or **ShiftJIS** (see [page 116](#)).
- ◆ The print jobs stored in the Printer are deleted automatically after the time set in **Print Job Auth. Time** (see [page 205](#)) has elapsed.

◆ User Authentication Procedure (Login) and Logout

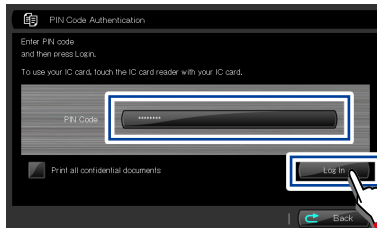
■ Authentication in copy, submission, and scan modes **MF**

1



Press **COPY**, **SUBMIT**, or **SCAN**.

2

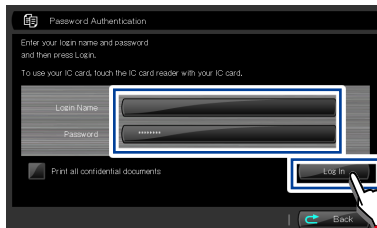


Enter a PIN code or login name and password and then press **Log In**.

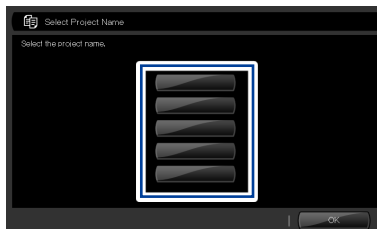


TIP

- ◇ With smart card authentication, read your smart card with the card reader while this screen is displayed.
- ◇ After authentication, the screen of the corresponding mode is displayed.



3



If a project name is registered in the user information, select a project.

The screen of the desired mode appears.

4

Perform copy, submission, or scanning operations.

5

When operation is complete, press **Log Out** at the bottom of the top screen to logout.

The standby screen appears.

■ Authentication in print mode

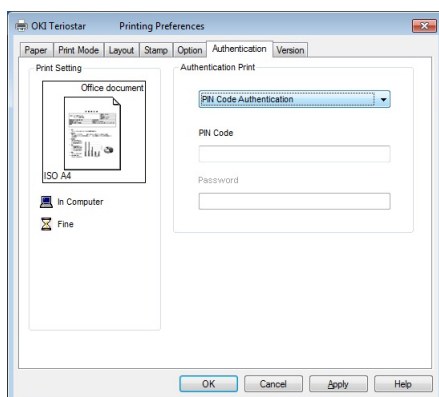
1 When using the printer driver, set the authentication code to the authentication sheet of the printer driver and print.

When the parameter used to authenticate the user during print authentication is set to the default value **Use PC Login Name**, it is not necessary to configure the printer driver Authentication sheet.

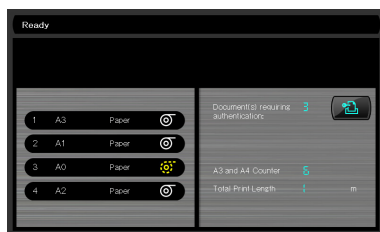
See [page 206](#) for more details on the parameter used to authenticate the user during print authentication.

When the parameter used to authenticate the user during print authentication is set **Use PrinterDriver Setting**, you need to set your own authentication code in the printer driver Authentication sheet.

Print data received by the Printer will not be printed and will remain in the Printer until the authentication code is entered.



2-a



Read the smart card with the card reader.

With smart card authentication, users are authenticated on the Ready screen when they read their smart card with the card reader.

After successful authentication, the

Authenticated Printing screen in [5](#) is displayed.

2-b



Press PRINT.

The Print mode top screen appears.

3

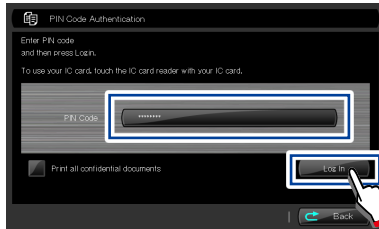


Press Authenticated Printing.

With smart card authentication, users are authenticated on the Ready screen when they read their smart card with the card reader.

After successful authentication, the **Authenticated Printing** screen in 5 is displayed.

4

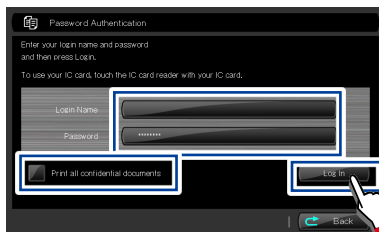


Enter a PIN code or login name and password and then press Log In.

The sent print job list is displayed in the Confidential documents print screen.



TIP ◇ When User Verification for Print Auth is set to Use PC Login Name, enter the login name you used to log in to the computer.



With the box for **Print all confidential documents** checked, the printer starts printing all documents waiting for the user's authentication as soon as he/she logs in.

The checkbox's default status is set to On or Off at the User Authentication Setting. For more details, see page 205.



TIP ◇ You can read your smart card with the card reader to authenticate while the PIN code input screen in step 4 or the login name/password input screen is displayed.

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

Chapter
5

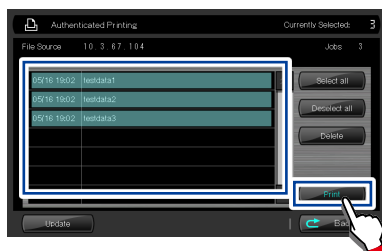
Authentication
Function

Chapter
6

Troubleshooting

Appendix

5



Select the job to be printed and press **Print**.

The selected jobs are highlighted in green.



TIP ◇ When the authenticated user is also a proxy user for another user, the jobs of both users are displayed.

See page 202 for how to register proxy users.

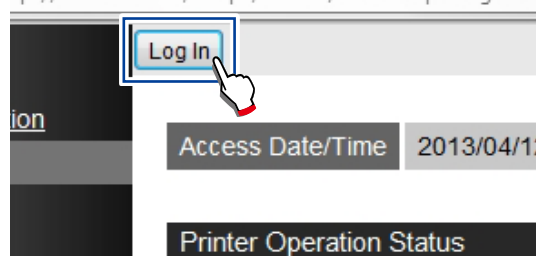
6

After all printing is complete, press **Log Out** at the Print top screen to logout.

■ Authenticating from a Web Browser

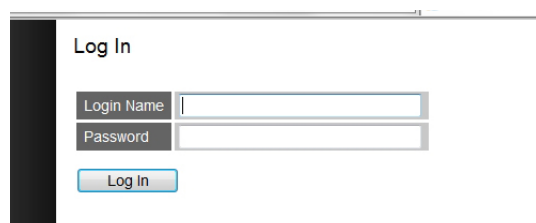
When you are performing printer administration or user authentication, to access the Printer from a Web browser press **Login** at the top of the Web browser window before using a function.

tp://128.1.1.210/script/status/index.shp?lang=0



The authentication screen appears. Enter a login name and password.

(For PIN code authentication, enter the PIN code in the login name field. Leave the password field blank.)

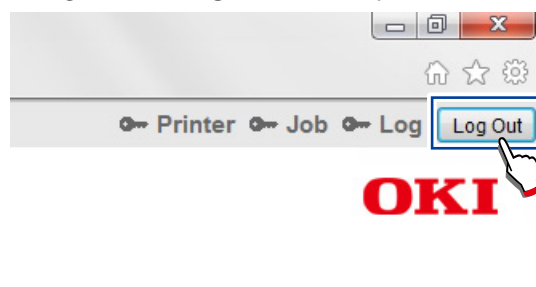


After user authentication, the Web function job screen (copy jobs, submission jobs, scan jobs, print jobs, submission box, and PDC box) appears.

On the job screen, only the jobs of authenticated users are displayed.

After logging in, the user can operate the Printer under the specified restrictions.

To logout, click **Log Out** at the top of the Web browser window.



◆ One-time Password Authentication

One-time password authentication is a print mode authentication function. When Print authentication is off, this function makes it possible to use print authentication only with print data for which a one-time password has been added with the printer driver.



One-time password authentication can be used under the following conditions.

- **Print Authentication** is set to **Off**.
- A one-time password has been added to our official printer driver.

With the one-time password specified, the Printer operates as follows:

- With print function authentication (Print Authentication) set to **Off**, any user can print. When the printer receives a print job, the jobs are printed in the order they are received.
- With such operation, the one-time password function is extremely useful when printing data you do not want another user to see. Before printing such data, set the one-time password with the authentication

sheet of the printer driver.

One-time passwords can be set freely by individual users and can also be changed for each drawing.

Note

- ◆ Set a unique one-time password so that it does not match another user's one-time password. Be aware that all the print data with that password will be printed if multiple users coincidentally set the same password.

Print jobs with one-time passwords are not immediately printed when received by the printer and printing is suspended. (Standard print jobs without one-time passwords are printed in order.)

To print the suspended print job with that one-time password, the user who has submitted the one-time password job can enter the one-time password on the operation panel at a convenient time.

Note

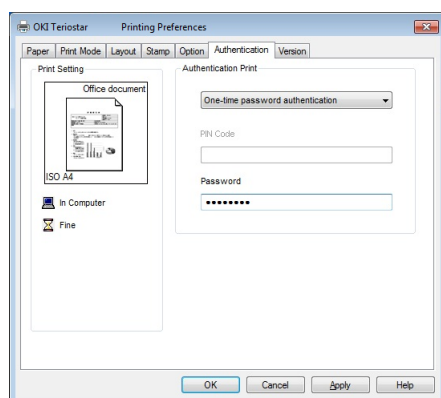
- ◆ One-time password jobs are automatically deleted when the specified Print job authentication time (📖 page 205) elapses.
- ◆ The file names of one-time password jobs are not displayed on the print job screen. Furthermore, they are not saved in completed jobs in the Printer and cannot be reprinted.



■ Setting procedure with the printer driver

When you are printing from the printer driver, specify one-time passwords with the authentication sheet.

For details, see the help section of the printer driver.



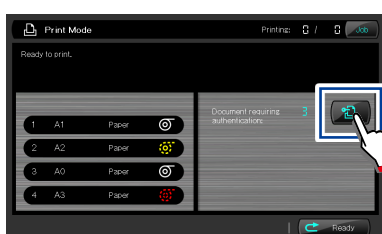
■ Operation procedure with the Printer.

1



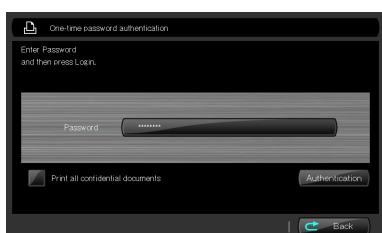
Press **PRINT**.

2



Press **Authenticated Printing**.

3

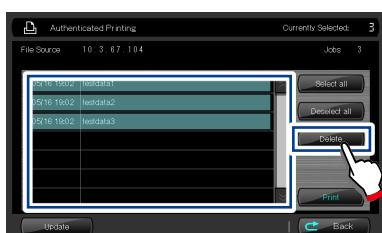


Enter the one-time password.

With the box for **Print all confidential documents** checked, the printer starts printing all documents waiting for the user's authentication as soon as he/she logs in.

The checkbox's default status is set to **On** or **Off** at the **User Authentication Setting**. For more details, see **page 205**.

4



On the authenticated printing screen, select a job to print it.

◆ AD-related Attributes Location

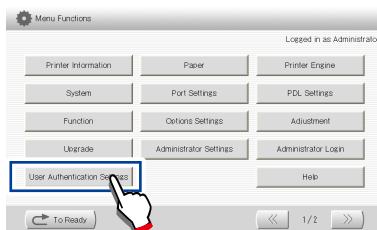
When using Active Directory, configure the attributes as follows.

Active Directory authentication is an optional function.

This menu is not displayed if the Active Directory authentication option is disabled.

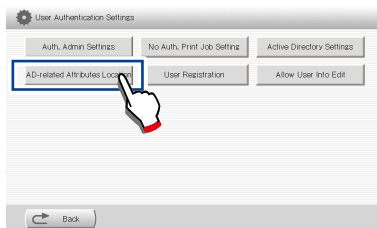
1 Press the **MENU** button.

2



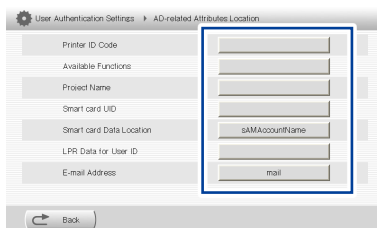
Press **User Authentication Settings**.

3



Press **AD-related Attributes Location**.

4



Smart card UID

When a smart card UID (unique identifier) is registered in Active Directory, set the name of the attribute where the UID is registered.

E-mail Address

When an e-mail address is registered in Active Directory, set the name of the attribute where the e-mail address is registered.

Note

- ◆ It is not necessary to modify the other settings.

Smart Card Registration Procedure

Chapter

1

Before Use

Chapter

2

Basic Operations

Chapter

3

Menu Functions

Chapter

4

Print Job Box Function

Chapter

5

Authentication Function

Chapter

6

Troubleshooting

Appendix

◆ Preparation 1

(1) Install the smart card reader.

See the separate smart card reader leaflet for the installation procedure.

(2) Enable the smart card option.

See  **page 156** for details on how to enter the option code.

(3) Configure the smart card settings.

See  **page 162** for details on how to configure smart card settings.

◆ Preparation 2

The two following methods are available to register smart cards.

- Registration by the administrator with the user maintenance tool
- Registration by the users with the Printer

For details on the method using the user maintenance tool, see the *User's Manual* of the software.

The following describes the procedure to register smart cards with the Printer.

(1) Configure Smart card Registration.

Set **Smart card Registration** to **Allow**.

See **Allow User Info Edit** on  **page 208** for more details.

(2) Register a user.

See  **page 202** for how to register users.

After this step, the smart card has not been registered yet.

(3) Configure User Authentication.

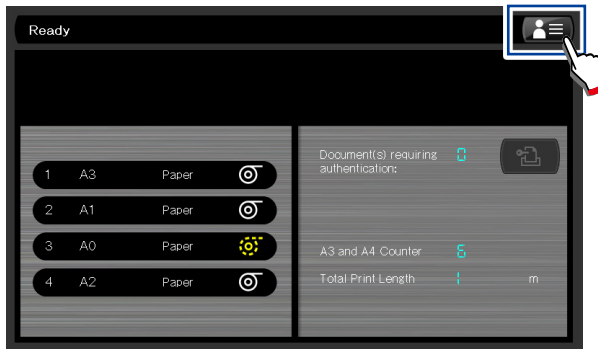
See User **Authentication Setting Procedure** on  **page 205** for more details.

After this step, PIN code authentication or password authentication can be used.

◆ Registration of Smart Cards by Users with the Printer

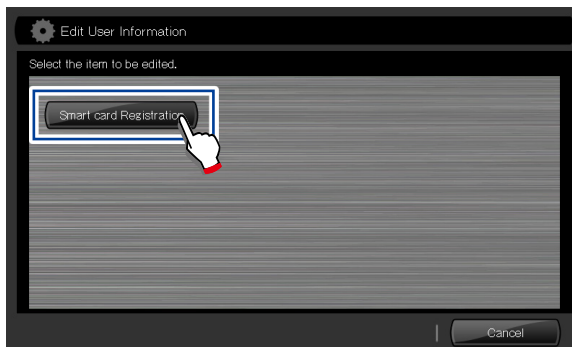
(1) Display the Ready screen.

Press the User Info Edit button at the top right corner of the screen.



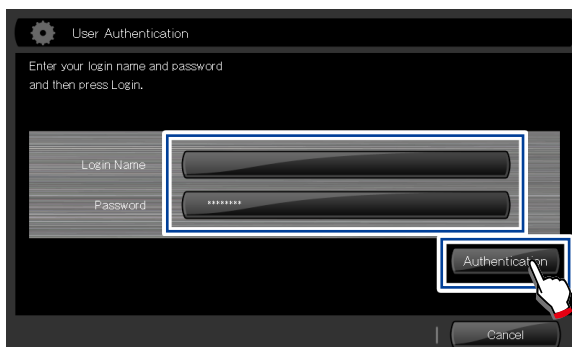
(2) Edit user information.

Press the **Smart card Registration** button on the Edit User Information screen.



(3) Authenticate the user.

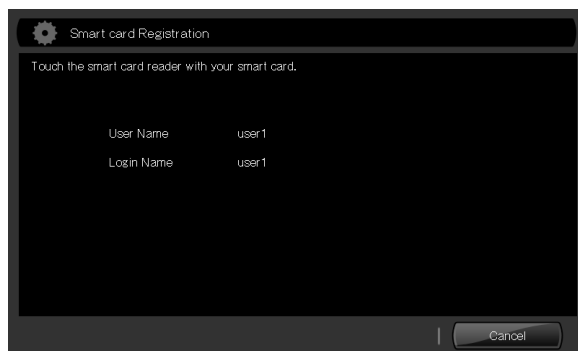
On the User authentication screen, enter your login name and password, or your PIN code, and press the **Authentication** button.



(4) Check the user name.

The Smart card Registration screen is displayed.

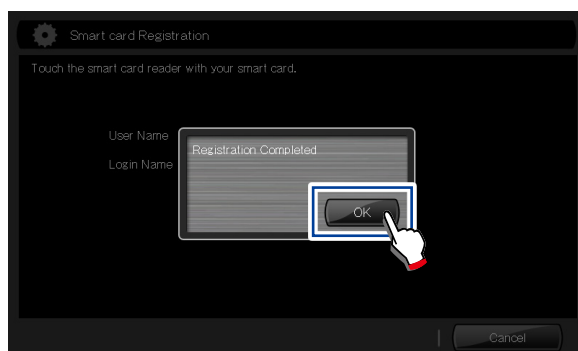
Check that your account information is displayed, and then read your smart card with the card reader.



(5) Complete the smart card registration.

The screen below is displayed when the smart card registration is completed successfully.

Press the **OK** button.



Chapter 6

Troubleshooting

This chapter describes the action to take should a Printer problem occur. If the problem persists after taking the appropriate action, contact your dealer or nearest service representative.

Chapter Contents

▼ Initial Checks	226
▼ When the Error Screen Appears	227
▼ Error Log Reference	236
▼ Ethernet Troubleshooting	247
▼ Image Quality Defects	249
▼ Unusual Sound	250
▼ When you have set the wrong language	251

Initial Checks

■ Inspection and Check Items When Problems Occur

Before diagnosing a Printer malfunction, inspect or check the following items. Take the appropriate action.

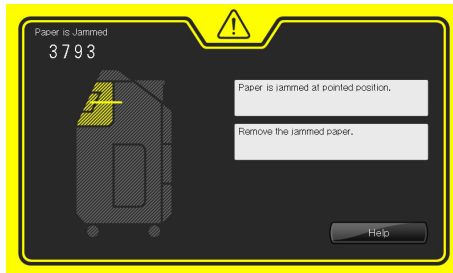
Symptom	Inspection or Check Item	Action
Power does not turn on.	Connection of the power cord	Connect the Printer's socket to the outlet correctly.
	Power supply to the outlet	Supply power to the outlet.
The Printer does not start or operate normally.	Lighting up of error lamps and panel message display	Take the action specified by the error message.  page 227
The Printer does not print.	Connection of the interface cable	Connect the interface cable correctly.
	Lighting up of error lamps and panel message display (see Note below)	Take the action specified by the error message.  page 227
Paper jams occur frequently.	Paper type	Check that the set paper matches the paper type setting. Use the OKI Data Infotech-specified paper.  page 29
	Paper setting condition	Set correctly.  page 46
	Obstructions in the paper path	Remove the obstructions.  page 227

Note

- ◆ If there may be a problem on the line connection between the Printer and the computer, transmit the data to the Printer ( [page 154](#)), check the error log, and then ensure that no communication warning is issued ( [page 236](#)).
- ◆ With PDL errors, the error message can be printed on a part of the printout. ( [page 128](#)).

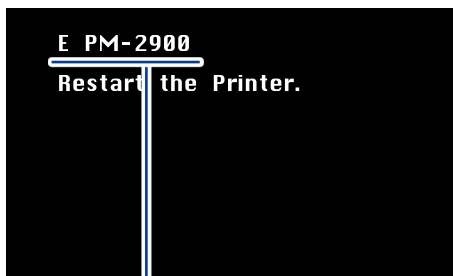
When the Error Screen Appears

When an error lamp lights up, press the mode button with its red LED lighted, and check the error message displayed on the screen.



Paper is jammed. (📖 page 227 to 168)

Door or drawer is open. (📖 page 235)



Error code

Restart the Printer.

If the screen still displays the error code, write down the error code and contact your dealer or nearest service representative.

If you cannot turn off the Printer even by pressing the **POWER** button on the operation panel, turn off the main power switch.

(📖 page 42)

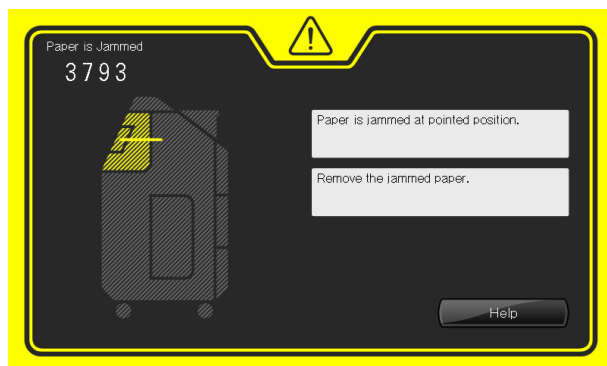
◆ Paper Jam

When a paper jam occurs, the error lamp lights up and the paper jam error is displayed on the touchpanel. The touchpanel also shows the paper jam location.

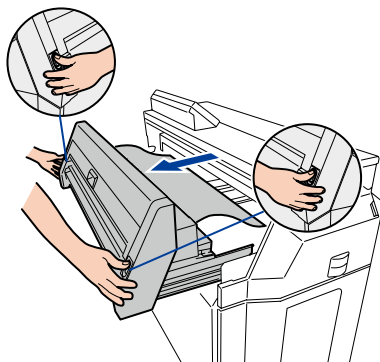
Remove the paper jam by following the procedures described next.

The method for removing the paper jam can also be viewed in the **Help** of the error screen.

■ Removing a Paper Jam from the Fuser Unit

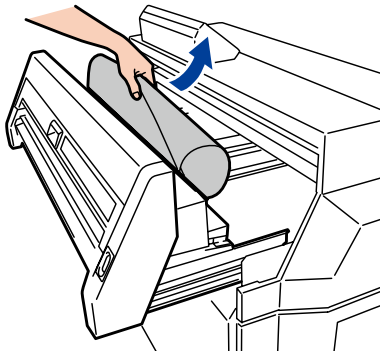


1



Press the latch button, and open the fuser unit drawer.

2



Remove the jammed paper.

If you cannot see the jammed paper, go to **step 3**.
After removing the jammed paper, go to **step 4**.



Warning

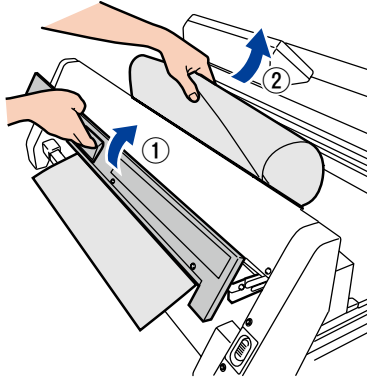
- ◆ Be careful not to touch the fuser unit.

Note that the fuser unit is very hot. To avoid burning yourself, remove the jammed paper carefully.

Note

- ◆ If you can see jammed paper to the rear of the fuser unit, be sure to pull out the paper to the rear side of the Printer. If you pull out the paper from the front, toner not yet fixed to the paper may fall, and make the Printer dirty, which may cause a Printer malfunction. Toner may also adhere to the following printouts and smear them.

3

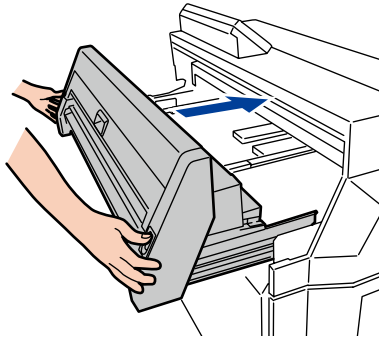


If the jammed paper cannot be pulled out from the Printer side, slightly pull the paper outlet cover to your side and lift up it. Then remove the jammed paper.

Note

- ◆ Open and close slowly the paper outlet cover. If you release your hand while holding up the cover or close it roughly, a malfunction may result.

4



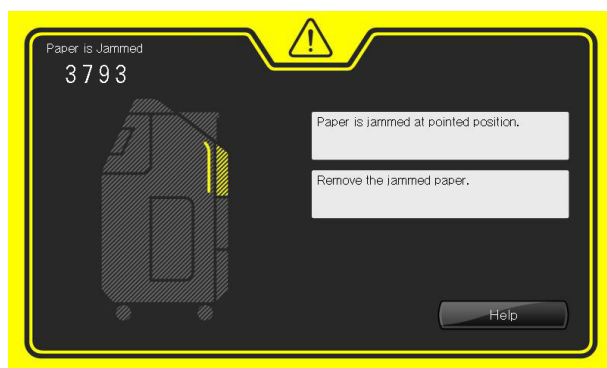
Close the paper outlet cover, and then close the fuser unit drawer.

When the fuser unit drawer is closed, the Printer restarts the print from the page at which the paper jam occurred.

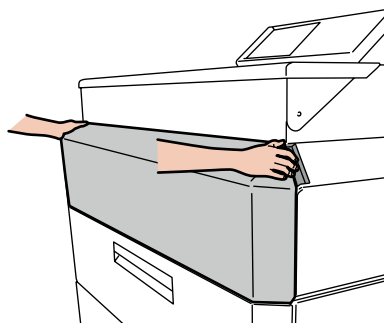
Note

- ◆ Close the fuser unit drawer by holding it near the right and left latch buttons.
The fuser unit drawer cannot be closed if the latch buttons are pressed.

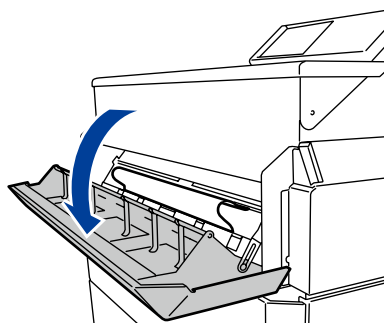
■ Removing a Paper Jam from Inside the Printer (front door)



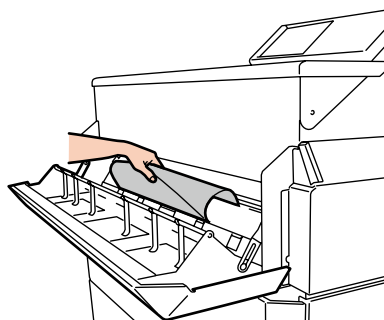
1



Open the front door.



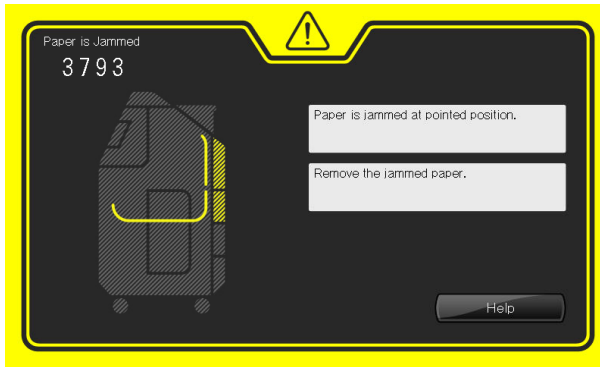
2



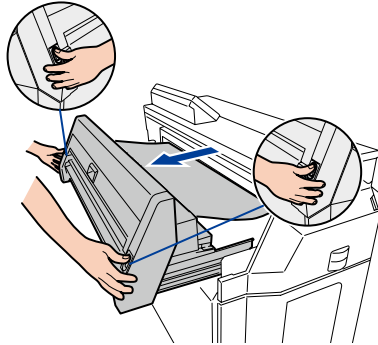
Remove the jammed paper, and then close the front door.

When the front door is closed, the Printer restarts the print from the page at which the paper jam occurred.

■ Removing a Paper Jam from the Roll Paper Drawer and the Front Door

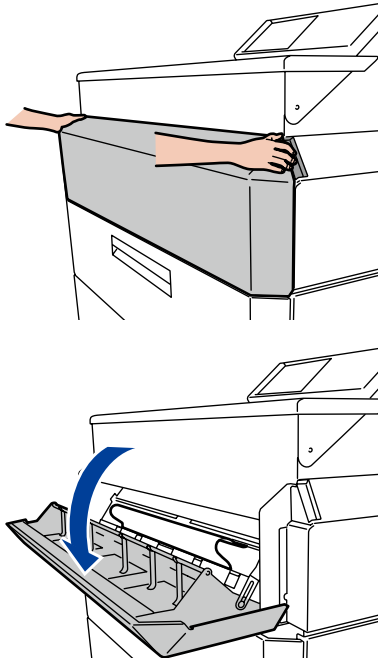


1



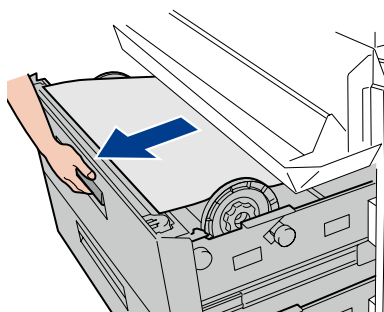
Press the latch button, and open the fuser unit drawer.

2



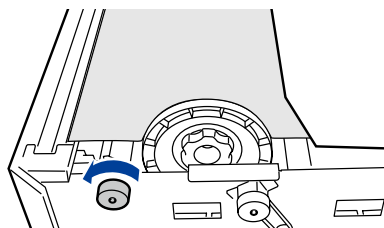
Open the front door.

3



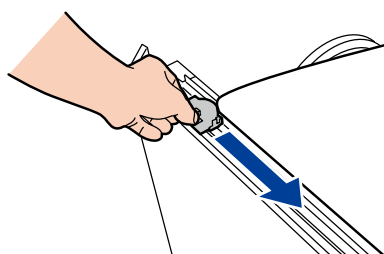
Open the roll paper drawer.

4



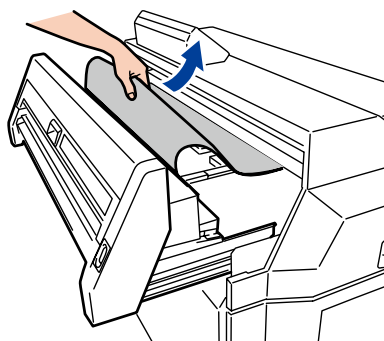
Rewind the roll paper.

5



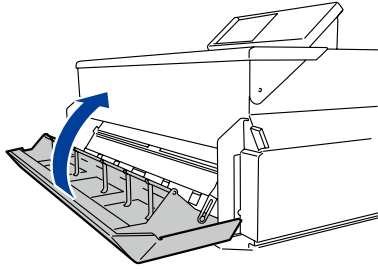
Cut the paper.

6



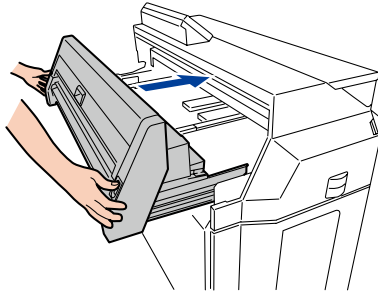
Remove the roll paper.

7



Close the front door.

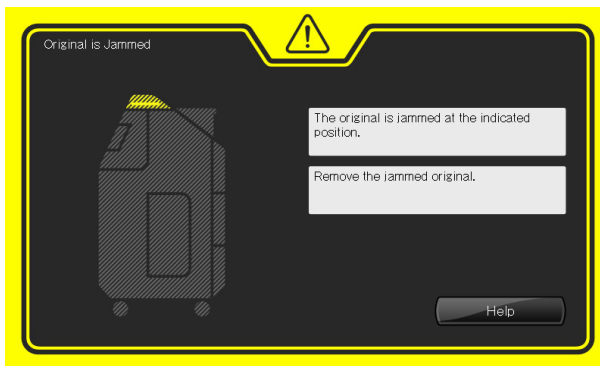
8



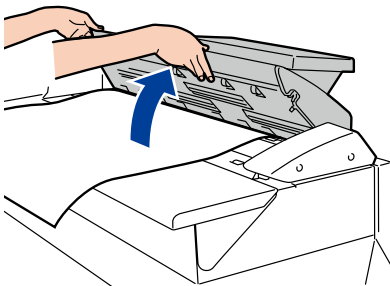
Close the fuser unit drawer.

■ Original Jam MF

When an original jam occurs, the following messages appear on the screen.

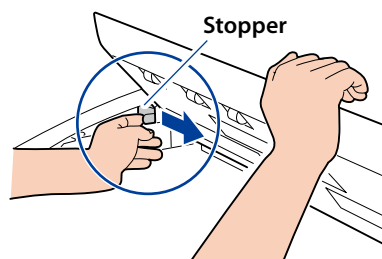


1



Open the scanner cover.

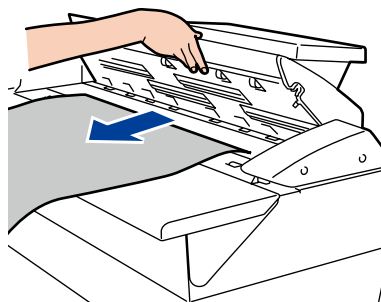
2



Support the scanner cover with the stopper.

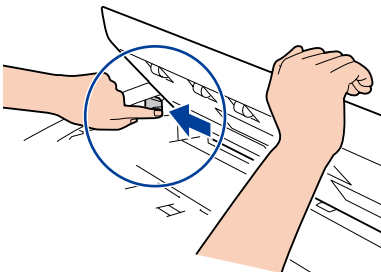
Slide the stopper to the right.

3



Remove the jammed original.

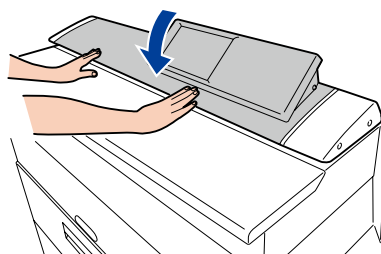
4



Release the stopper.

Slide the stopper to the left.

5



Close the scanner cover.

Be closing the scanner cover, then the Printer becomes ready.



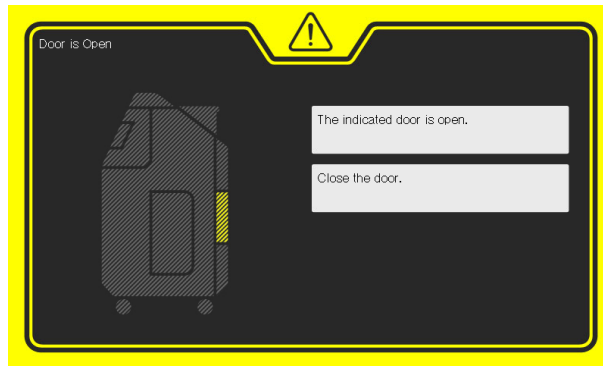
Warning

- ◆ Be careful not to catch your hand in the scanner cover. Otherwise, you may injure yourself.

◆ Door is Open

The following messages are displayed on the screen when a door or drawer is open.

Following the message, close the indicated door or drawer.



Error Log Reference

On the problems below, solve the problems by checking the Printer's error log.

- Error memo is printed.
- The Printer cannot communicate with the computer.
- Otherwise, the Printer operation is not stable.

◆ Procedure to Check the Error Log

You can check the error logs with the procedure below.

(1) Print Error Log

See **Print Error Log** in **Chapter 3 Function Menu**.

(2) Web Functions

See **Web Functions** in **Chapter 2 Basic Operations**.

With the Web function, you can check the actual log, and also in the CSV format.

Error log example:

100	2010/1/1 12:00	0	W	PD	A100	POLYGON_BFFR_ERR
Log number	Date and time	Type	Category		Error number	Message

◆ Error Log List

Solve the problem by identifying the error with referring to the Error Log List shown below.

If the problem persists after the corresponding troubleshooting, contact your dealer or nearest service representative.

(1)	(2)	(3)	Message	Meaning	Action
W	BT	2C00		Battery run out warning	Replace the battery. Contact your nearest service representative.
W	CI	8401		NBT name registration denied	Restart the Printer.
W	CI	8402		NBT name registration failed	
W	CI	8403		NBT session connection failed	
W	CI	8404		SMB negotiation failed	
W	CI	8405		SMB setup failed	
W	CI	8406		SMB tree connection failed	
W	CI	8407		SMB file opening/creation failed	
W	CI	8408		SMB writing failed	
W	CI	8409		SMB file closing failed	
W	CI	840A		SMB tree disconnection failed	
W	CI	840B		SMB session handle opening failed	
W	CI	840C		NBT session disconnection failed	
W	CI	840D		Parameter error	Restart the Printer.
W	HT	9101	Accept error	accept return value error	
W	HT	9102	Socket error	socket return value error	
W	HT	9103	bind error	bind return value error	
W	HT	9104	listen error	listen return value error	
W	HT	2B00	Configfile open error	httpd.cnf opening failed	Restart the Printer.
W	HT	2B01	Resource open error	Resource file opening error	
W	IN	1001	Initialize EEPDRV	Module start error (eeprom driver)	
W	IN	1002	Initialize ENIDRV	Module start error (printer image transmission driver)	
W	IN	1003	Initialize HWKEYDRV	Module start error (HW key driver)	
W	IN	1004	Initialize ENUDRV	Module start error (scanner SIO driver)	
W	IN	1005	Initialize ENVDRV	Module start error (scanner image transmission driver)	
W	IN	1006	Initialize JPGDRV	Module start error (JPEG driver)	
W	IN	1007	Initialize ENGINEDRV	Module start error (engine control related driver)	
W	IN	1011	Initialize TRACE	Module start error (trace library)	
W	IN	1012	Initialize EEPLIB	Module start error (eeprom library)	
W	IN	1013	Initialize CFGHDD	Module start error (HDD configuration library)	
W	IN	1014	Initialize SENVLIB	Module start error (system environment library)	
W	IN	1015	Initialize VPAGEDISKLIB	Module start error (virtual page disk library)	
W	IN	1016	Initialize MYKLIB	Module start error (virtual library)	
W	IN	1017	Initialize MEMLIB	Module start error (memory library)	
W	IN	1018	Initialize SPLIB	Module start error (spool library)	
W	IN	1019	Initialize VUPLIB	Module start error (upgrade library)	
W	IN	1031	Initialize TIMER	Module start error (timer task)	
W	IN	1032	Initialize OPERATION	Module start error (operation task)	
W	IN	1033	Initialize PANEL	Module start error (panel task)	

(1) Type (2) Character string (3) Error number

▼ Error Log Reference

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

Chapter
6

Troubleshooting

Appendix

(1)	(2)	(3)	Message	Meaning	Action
W	IN	1034	Initialize PM	Module start error (PM task)	Restart the Printer.
W	IN	1035	Initialize JOB	Module start error (job task)	
W	IN	1036	Initialize NETD	Module start error (network task)	
W	IN	1037	Initialize SPL	Module start error (spool task)	
W	IN	1038	Initialize OUTMAIN	Module start error (output main task)	
W	IN	1039	Initialize ENGINETASK	Module start error (engine control related task)	
W	IN	1040	Initialize VERUP	Module start error (upgrade task)	
W	IN	2300	HDD partition remake	HDD error (partition reconstruction)	
W	IN	2301	setup remake	Setup reconstruction	
W	IN	2302	errlog remake	Error log file reconstruction	
W	IN	2303	joblog remake	Job log file reconstruction	
W	IN	2310	HDD folder remake	HDD error (folder reconstruction)	
W	IN	2400	EEPROM remake All	EEPROM reconstruction (all)	
W	IN	2401	EEPROM remake RIP area	EEPROM reconstruction (RIP area only)	
W	IN	101A	Initialize CHECKSERIAL	Module start error (serial number check library)	
W	IN	101 B	Initialize STLIB	Module start error (status library)	-
W	IN	101C	Initialize ERRLOGLIB	Module start error (error log library)	
W	IN	101D	Initialize JOBLOGLIB	Module start error (job log library)	
W	IN	101E	Initialize SULIB	Module start error (setup library)	
W	IN	101F	Initialize NETCONFIG	Module start error (network settings library)	
W	IN	103A	Initialize ENSCAN	Module start error (scanner driver task)	
W	IN	103B	Initialize ENPRINT	Module start error (printer driver task)	
W	IN	103C	Initialize REMOTE	Module start error (remote task)	
W	IN	103D	Initialize SCAN	Module start error (scan task)	
W	IN	103E	Initialize PDLMAIN	Module start error (PDL main task)	
W	IN	103F	Initialize LOCPRINT	Module start error (local print task)	
W	IN	C000	Initialize F/W Ver.nnn	Initializing Process Start nnn: F/W system version	
W	JB	2300	Temporary memory alloc error	When writing the job information to the HDD, failed to acquire dynamic memory with DBdataAlloc	Restart the Printer.
W	JB	2310	Write to HDD error	Error while writing job information to HDD	
W	JB	2320	Read from HDD error	Error while reading job information to HDD	
W	JB	4200	Receive select error	MYKselect returned an error when receiving a message	
W	JB	4210	Send select error	MYKselect returned an error when sending a message	
W	JB	4300	Receive message error	MYKrcvInterface returned an error	
W	JB	4310	Send message error	MYKsndInterface returned an error	
W	JB	C000		Internal information error	

(1) Type (2) Character string (3) Error number

(1)	(2)	(3)	Message	Meaning	Action
W	JL	4200	Receive select error for jobcreate	MYKselect returned an error when receiving a jobCreate message	Restart the Printer.
W	JL	4201	Receive select error for jobgetinfo	MYKselect returned an error when receiving a jobGetInfo message	
W	JL	4202	Receive select error for jobgetinfowithpage	MYKselect returned an error when receiving a jobGetInfoWithPage message	
W	JL	4203	Receive select error for jobgettopprioists	MYKselect returned an error when receiving a jobGetTopPrioSts message	
W	JL	4204	Receive select error for jobevent	MYKselect returned an error when receiving a jobEvent message	
W	JL	4210	Send select error for jobcreate	MYKselect returned an error when sending a jobCreate message	
W	JL	4211	Send select error for jobgetinfo	MYKselect returned an error when sending a jobGetInfo message	
W	JL	4212	Send select error for jobgetinfowithpage	MYKselect returned an error when sending a jobGetInfoWithPage message	
W	JL	4213	Send select error for jobgettopprioists	MYKselect returned an error when sending a jobGetTopPrioSts message	
W	JL	4214	Send select error for jobsetinfo	MYKselect returned an error when sending a jobSetInfo message	
W	JL	4215	Send select error for jobsetinfowithpage	MYKselect returned an error when sending a jobSetInfoWithPage message	
W	JL	4216	Send select error for jobsetfinish	MYKselect returned an error when sending a jobSetFinish message	
W	JL	4217	Send select error for jobevent	MYKselect returned an error when sending a jobEvent message	
W	JL	4300	Receive message error for jobcreate	MYKrcvInterface returned an error when receiving a jobCreate message	
W	JL	4301	Receive message error for jobgetinfo	MYKrcvInterface returned an error when receiving a jobGetInfo message	
W	JL	4302	Receive message error for jobgetinfowithpage	MYKrcvInterface returned an error when receiving a jobGetInfoWithPage message	
W	JL	4303	Receive message error for jobgettopprioists	MYKrcvInterface returned an error when receiving a jobGetTopPrioSts message	
W	JL	4304	Receive message error for jobevent	MYKrcvInterface returned an error when receiving a jobEvent message	
W	JL	4310	Send message error for jobcreate	MYKsndInterface returned an error when sending a jobCreate message	
W	JL	4311	Send message error for jobgetinfo	MYKsndInterface returned an error when sending a jobGetInfo message	
W	JL	4312	Send message error for jobgetinfowithpage	MYKsndInterface returned an error when sending a jobGetInfoWithPage message	
W	JL	4313	Send message error for jobgettopprioists	MYKsndInterface returned an error when sending a jobGetTopPrioSts message	
W	JL	4314	Send message error for jobsetinfo	MYKsndInterface returned an error when sending a jobSetInfo message	
W	JL	4315	Send message error for jobsetinfowithpage	MYKsndInterface returned an error when sending a jobSetInfoWithPage message	
W	JL	4316	Send message error for jobsetfinish	MYKsndInterface returned an error when sending a jobSetFinish message	
W	JL	4317	Send message error for jobevent	MYKsndInterface returned an error when sending a jobEvent message	
W	LN	1100	alloc memory xx	Insufficient internal memory xx: Internal code (01 to 04)	Restart the Printer.

(1) Type (2) Character string (3) Error number

▼ Error Log Reference

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

Chapter
6

Troubleshooting

Appendix

(1)	(2)	(3)	Message	Meaning	Action
W	LN	8000	PPP parameter xx	Invalid protocol data sent from the host PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host and the applications.
W	LN	8001	XPT same port number	XPT port number duplication	Correct the Printer's XPT settings.
W	LN	8010	PPP connection refused xx	A connected host forcibly broke communication PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host.
W	LN	8020	PPP timeout xx	Communication timeout (application level) (Communication with the host broke during data transmission) PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	
W	LN	8030	PPP connection timeout xx	Communication timeout (TCP level) (Communication with the host broke during data transmission) PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host and the connection cables.
W	LN	8040	PPP accept(nnnn) xx	Communication connection related: accept error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8050	PPP socket(nnnn) xx	Communication connection related: socket error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8060	PPP bind(nnnn) xx	Communication connection related: bind error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8070	PPP listen(nnnn) xx	Communication connection related: listen error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8080	PPP connect(nnnn) xx	Communication connection related: connect error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8090	PPP read(nnnn) xx	Communication connection related: readout error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8100	PPP parameter xx	Invalid protocol data sent from the host PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host and the applications.
W	LN	8110	PPP connection refused xx	A connected host forcibly broke communication PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host.
W	LN	8120	PPP timeout xx	Communication timeout (application level) (Communication with the host broke during data transmission) PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host.

(1) Type (2) Character string (3) Error number

(1)	(2)	(3)	Message	Meaning	Action
W	LN	8130	PPP connection timeout xx	Communication timeout (TCP level) (Communication with the host broke during data transmission) PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host and the connection cables.
W	LN	8140	PPP accept(nnnn) xx	Communication connection related: accept error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8150	PPP socket(nnnn) xx	Communication connection related: socket error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8160	PPP bind(nnnn) xx	Communication connection related: bind error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8170	PPP listen(nnnn) xx	Communication connection related: listen error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8180	PPP connect(nnnn) xx	Communication connection related: connect error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	Check the status of the data transmission host and the applications.
W	LN	8190	PPP read(nnnn) xx	Communication connection related: readout error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8200	PPP parameter xx	Invalid protocol data sent from the host PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	
W	LN	8210	PPP connection refused xx	A connected host forcibly broke communication PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host.
W	LN	8220	PPP timeout xx	Communication timeout (application level) (Communication with the host broke during data transmission) PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	Check the status of the data transmission host and the connection cables.
W	LN	8230	PPP connection timeout xx	Communication timeout (TCP level) (Communication with the host broke during data transmission) PPP: Protocol name (FTP/LPD/XPT) xx: Internal code	
W	LN	8240	PPP accept(nnnn) xx	Communication connection related: accept error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8250	PPP socket(nnnn) xx	Communication connection related: socket error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	8260	PPP bind(nnnn) xx	Communication connection related: bind error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	

(1) Type (2) Character string (3) Error number

▼ Error Log Reference

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

Chapter
6

Troubleshooting

Appendix

(1)	(2)	(3)	Message	Meaning	Action
W	LN	8270	PPP listen(nnnn) xx	Communication connection related: listen error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	Check the status of the data transmission host and the connection cables.
W	LN	8280	PPP connect(nnnn) xx	Communication connection related: connect error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	Check the status of the data transmission host and the connection cables.
W	LN	8290	PPP read(nnnn) xx	Communication connection related: readout error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	Check the status of the data transmission host and the connection cables.
W	LN	C000	PPP nnn xxx	Communication internal error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	Restart the Printer.
W	LN	C100	PPP nnn xxx	Communication internal error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	LN	C200	PPP nnn xxx	Communication internal error PPP: Protocol name (FTP/LPD/XPT) nnnn: Supported character string xx: Internal code	
W	ML	8700	not setting server	SMTP server not set	Set the SMTP server address for the Printer.
W	ML	8701	server connection Not owner	SMTP server connection error (no permission)	Check the Printer's e-mail settings. Check the status, setting, connection and authentication labels of the SMTP server.
W	ML	8709	server connection Bad file number	SMTP server connection error (connection destination not enabled)	Check the status, setting, connection and authentication labels of the SMTP server.
W	ML	8720	server connection Address already in use	SMTP server connection error (IP address already used)	Check the IP address settings.
W	ML	8721	server connection Connection timed out	SMTP server connection error (timeout)	Check the status, setting, connection and authentication labels of the SMTP server. Also, check the network status.
W	ML	8722	server connection Connection refused	SMTP server connection error (connection denied)	Check the status, setting, connection and authentication labels of the SMTP server.
W	ML	8730	server protocol initial state	SMTP server protocol error (initial process)	Check the settings of the SMTP server, and the status, settings, connection of the SMTP server.
W	ML	8731	server protocol socket	SMTP server protocol error (socket process)	
W	ML	8732	server protocol connect	SMTP server protocol error (connect process)	
W	ML	8733	server protocol Check Greeting & HELO	SMTP server protocol error (connection permission and HELO process)	
W	ML	8734	server protocol Check HELO & MAIL From	SMTP server protocol error (HELO permission and MAIL process)	
W	ML	8735	server protocol Check MAIL & RCPT	SMTP server protocol error (MAIL permission and RCPT process)	
W	ML	8736	server protocol Check RCPT & CC or DATA	SMTP server protocol error (RCPT permission and CC or DATA process)	
W	ML	8737	server protocol Check CC & DATA	SMTP server protocol error (CC permission and DATA process)	

(1) Type (2) Character string (3) Error number

(1)	(2)	(3)	Message	Meaning	Action
W	ML	8738	server protocol Check DATA & data	SMTP server protocol error (DATA permission and data sending process)	Check the settings of the SMTP server, and the status, settings, connection of the SMTP server.
W	ML	8739	server protocol Check data end & QUIT	SMTP server protocol error (end of data sending and QUIT process)	
W	ML	8741	server protocol Check greeting & EHLO	SMTP server protocol error (connection permission and EHLO process)	
W	ML	8751	server protocol check EHLO & AUTH	SMTP server protocol error (EHLO permission and AUTH process)	
W	ML	8752	server protocol check AUTH PLAIN & plain userID and password	SMTP server protocol error (plain text authentication process)	
W	ML	8753	server protocol check userID and password & MAIL	SMTP server protocol error (authentication permission and MAIL process)	
W	ML	8761	server protocol check AUTH LOGIN & userID	SMTP server protocol error (login authentication and ID sending process)	
W	ML	8762	server protocol check userID & password	SMTP server protocol error (ID authentication and password sending process)	
W	ML	8763	server protocol check password & MAIL	SMTP server protocol error (password authentication and MAIL process)	
W	ML	8771	server protocol check AUTH CRAM-MD5 & response	SMTP server protocol error (MD5 authentication and response process)	
W	ML	8772	server protocol check response & MAIL	SMTP server protocol error (MD5 MAIL process)	
W	ML	8780	parameter string too long	Program fault (parameter number of characters overflow)	Upgrade the system.
W	ML	8781	select timeout	Program fault (select timeout)	
W	ML	8782	select error	Program fault (select error)	
W	ML	8783	read error	Program fault (read error)	
W	ML	870B	server connection No more processes	SMTP server connection error (no usable port)	Restart the Printer.
W	ML	870D	server connection Permission denied	SMTP server connection error (no permission)	Check the e-mail settings. Check the status, setting, connection and authentication labels of the SMTP server.
W	ML	873A	server protocol Check QUIT	SMTP server protocol error (QUIT permission process)	Check the settings of the SMTP server, and the status, settings, connection of the SMTP server.
W	ML	873B	server protocol Check END	SMTP server protocol error (END permission process)	
W	OM	4600	Receive select error	MYKselect returned an error when receiving a message	Restart the Printer.
W	OM	4610	Send select error	MYKselect returned an error when sending a message	
W	OM	4700	Receive message error from JOB	MYKrcvInterface returned an error when receiving a message from JOB	
W	OM	4710	Receive message error from PM	MYKrcvInterface returned an error when receiving a message from PM	
W	OM	4720	Receive message error from PRINT	MYKrcvInterface returned an error when receiving a message from a print task	
W	OM	4730	Receive message error from NPRINT	MYKrcvInterface returned an error when receiving a message from an external print task	
W	OM	4740	Receive message error from CIFS	MYKrcvInterface returned an error when receiving a message from a CIFS task	

(1) Type (2) Character string (3) Error number

▼ Error Log Reference

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

Chapter
5

Authentication
Function

Chapter
6

Troubleshooting

Appendix

(1)	(2)	(3)	Message	Meaning	Action
W	OM	4750	Receive message error from TWAIN	MYKrcvInterface returned an error when receiving a message from a TWAIN task	Restart the Printer.
W	OM	4800	Send message error	MYKsndInterface returned an error when sending a message	
W	OP	EF00		Job ID mismatch Occurs when the job status changes while the job operation screen is displayed, and the correct job control cannot be executed.	0
W	PD	A300	FORMATERROR	An error exists in the D-SCAN format.	Analyze the data dumped together with the error message, and correct the error on the computer side.
W	PD	A401	COMMAND ERROR	Received an unsupported HP-GL or HP-GL/2 command.	Correct the error on the computer side.
W	PD	A402	# OF PARAM. ERROR	The number of parameters for a HP-GL or HP-GL/2 command is incorrect.	
W	PD	A403	PARAM._RANGE_ERR	Received a drawing command outside the supported range of HP-GL or HP-GL/2 command parameters, or a drawing command using unusable parameter characters.	
W	PD	A405	UNDEFINED COMMAND	Received an unsupported HP-GL or HP-GL/2 command character set command.	
W	PD	A407	POLYGON_BFFR_ERR	An overflow error for the polygon buffer size occurred.	
W	PD	A408	DATA IGNORED	Data was disregarded because there was no valid print data in the HP-GL command.	Check on the computer side whether valid print data is being transmitted.
W	PD	A500	PATTERN OVERFLOW	Pattern memory overflowed because there were too many pattern registrations on one page.	Reduce the pattern registration data on one page.
W	PD	A501	HATCH OVERFLOW	Pattern memory overflowed because there were too many hatch registrations on one page.	Reduce the hatch registration data on one page.
W	PD	A502	KANJI OVERFLOW	External character memory overflowed because there were too many external character registrations for the D-SCAN format.	Reduce the external character registration data on one page.
W	PD	A503	CHAR_OVERFLOW	No free memory area for the HP-GL user registration characters.	Correct so that the number of registrations or the data per character is reduced.
W	PD	A504	VMS OVERFLOW	VMS memory overflowed because the data volume on one page was too large.	Reduce the data volume on one page.
W	PD	A505	SPOOL OVERFLOW	Spool memory overflowed.	When operating with Centering = On, set to Centering = Off.
W	PD	A506	POLYGON OVERFLOW	An overflow error for the polygon buffer size occurred.	Correct the error on the computer side. (Polygon buffer upper limit: 106600 points.)
W	PD	A507	PDL ERR 507	Program warning	When the error persists and there is a problem in the printout, upgrade the system.
W	PD	A508	PDL ERR 508		
W	PD	A509	PDL ERR 509		
W	PD	A50A	PDL ERR 50A		
W	PD	A50B	PDL ERR 50B		
W	PD	A50C	PDL ERR 50C		
W	PD	A50D	PDL ERR 50D		
W	PD	A50E	PDL ERR 50E		
W	PD	A50F	PDL ERR 50F		
W	PD	A510	PDL ERR 510		
W	PD	A511	PDL ERR 511		
W	PD	A512	PDL ERR 512		
W	PD	A513	PDL ERR 513		
W	PD	A514	DATA IGNORED	Data was disregarded because there was no valid print data on the paper.	Check on the computer side whether valid print data is being transmitted.

(1) Type (2) Character string (3) Error number

(1)	(2)	(3)	Message	Meaning	Action
W	PD	A600	RASTER_DECODE_ERR	An error exists in the format of the compression raster data.	Check on the computer side for an error in the format of the compression raster data.
W	PD	A601	RASTER_FORMAT_ERR	No raster data of the size specified in the data.	Check on the computer side for an error in the data.
W	PD	A700	PDL ERR 700	A controller internal format error occurred.	When the error persists and there is a problem in the printout, upgrade the system.
W	PD	A701	PDL ERR 701		
W	PD	A702	PDL ERR 702		
W	PD	A703	PDL ERR 703		
W	PD	A704	PDL ERR 704		
W	PD	A705	PDL ERR 705		
W	PD	A800	FORMATERROR	An error exists in the TIFF data. Alternatively, cannot print because a required tag is missing.	Correct the error on the computer side.
W	PD	A801	# OF PARAM. ERROR	The number of parameters for the TIFF data tags is incorrect.	
W	PD	A802	PARAM._RANGE_ERR	The parameter value for the TIFF data tags is outside the supported range.	
W	PD	A803	DATA IGNORED	Data was disregarded because there was no valid print data in the TIFF data.	Check on the computer side whether valid print data is being transmitted.
W	PD	A900	FORMATERROR	Cannot print because the required CALS format record is missing.	Correct the error on the computer side.
W	PM	2300		HDD format execution	Restart the Printer, and when the error persists, upgrade the system.
W	PM	7E01		Factory default setting execution	
W	PM	7E02		Printer initialization execution	
W	PM	B800		Login unauthenticated	
W	PM	C100		Internal communication parameter error	
W	PM	C200		Statuses do not match	
W	PM	C300		Internal process parameter error	
W	PN	2600		Panel unit not connected Occurs when a response cannot be received for the panel initialization command. (Occurs in a panel task)	Restart the Printer.
W	PN	2610		Undefined command received Occurs when an undefined command is received from the panel unit. (Occurs in a panel task)	
W	PN	2620	Cmd Retry	Command resent because there was no response for the command from the panel for a certain time. (Occurs in a panel driver)	
W	PN	2630	Cmd Timeout	Disposed of the command because the command from the panel was interrupted partway. (Occurs in a panel driver)	
W	PN	2640	Pipe Overflow	Disposed of the command from the panel because of an upper pipe overflow. (Occurs in a panel driver)	
W	RM	2B01	Resource open error	Resource file opening error	Restart the Printer.
W	SC	2300	Image Over Run	Image disk writing too late	Restart the Printer, and when the error persists, upgrade the system.
W	SN	6000		Setup access error	-
W	SN	C000		MIB information construction error	-
W	SN	C010		MIB information access error	-
W	SN	C020		Internal communication error	-
W	SP	A000	Cannot Parse PJI	PJI analysis failed * Details may be divided into multiple items	Check the print data.

(1) Type (2) Character string (3) Error number

▼ Error Log Reference

(1)	(2)	(3)	Message	Meaning	Action
W	SP	A100	Cannot Determine Data Fomat	Format automatic identification failed	Check the print data.
W	SP	A110	No PDL Choice(Port %d)	Not even 1 valid PDL at port %d	Change the Printer's port settings, and restart the Printer.
W	SP	C000	Spool Mng File Not Found	No spool management file Previous shutdown may not have been performed correctly	-
W	SP	C010	Spool Mng File Broken	Spool management file error	-
W	SP	C020	Spool Data Restore Fail	Deleted the corresponding data item because of spool data restore failure	-
W	SP	C030	Unknown File Removed	Deleted unknown files not matching the management data in the spool partition	-
W	SP	C100	Spool Data Removed - Job Unmatch	Deleted the spool data not compatible with the job list	-
W	SP	C200	Spool area overflow XX	Entered the spool area overflow status XX: Area number	-
W	SP	C210	Recover spool overflowl XX	Recovered from the spool area overflow status XX: Area number	-
W	TW	4000	Twain : error taskIF	Fatal error occurred during communication initialization between tasks	Contact your nearest service representative.
W	TW	6000	Twain : warn setup	Cannot read the setup correctly	Restart the Printer.
W	TW	8300	Twain : use socket	Socket general error	
W	TW	8301	Twain : proc socket	Socket process error	
W	TW	8302	Twain : undefine command	Socket command error	
W	TW	8303	Twain : read socket	Socket read error	
W	TW	8304	Twain : write socket	Socket write error	• Check the communication status with the ping command. • Check the network cable connection and disconnection. • Check that the computer power is on. • Check that the router/switch power is on. • Check the Printer's network settings. • Check the computer's network settings. • Check the other network settings. If the error persists, replace the ARC substrate.
W	TW	8320	Twain : broken pipe	Network error	
W	TW	8331	Twain : addr not avail	Network error	
W	TW	8333	Twain : net unreachable	Network error	
W	TW	8336	Twain : connect reset		
W	TW	8337	Twain : no buffer		
W	TW	8339	Twain : not connect		
W	TW	8341	Twain : host unreachable		
W	TW	8343	Twain : host down		
W	TW	833C	Twain : time out		
W	TW	833D	Twain : connect refused		
W	TW	83FF	Twain : others (net)	Network errors other than above	

(1) Type (2) Character string (3) Error number

Ethernet Troubleshooting

■ When communication is not possible

Cause	Check	Action
The power is not on.	- Is the power switch turned on? - Is the power cord connected correctly?	- Turn on the power switch. - Connect the power cord correctly.
The LAN cable is not connected correctly.	Is the cable connected correctly to the jack?	- Connect fully and correctly. - If connected, remove and insert again.
The LAN cable is broken.	- Can a connection be made to another host device or peripheral device, such as a printer? - Is the ping command to the device enabled?	Use another LAN cable.
Network system error	Check that LP-2060 operation is being performed with the ping command from the host device.	Contact the system administrator.
The IP address is not set correctly.	Are the device settings and the IP address received from the system administrator the same?	Set the correct IP address.
The subnet mask is not set correctly.	Are the device settings and the subnet mask received from the system administrator the same?	Set the correct subnet mask.
The routing table is not set correctly.	- Are the device settings and the IP router address received from the system administrator the same? - Is the address of the network system at the connection destination correct?	- Set the correct router IP address. - Set the correct connection destination network address. (If unknown, set 0.0.0.0 and the default router value.)
The connections exceed the maximum number of device connections usable at the same time. (Max. 20 users)	Are devices connected at the same time on multiple host devices?	Adjust the number of users operating at the same time.
The set IP address is being used on another device (multiple use of an address).	Check with the system administrator.	Use the correct IP address.
The set IP address was previously used on another device.	Check with the system administrator.	The address of the original device is cached on the host device or a relay device such as a switch. Clear the corresponding cache table.
For settings using the DNS server, the DNS server is not set up, or the IP address setting of the DNS server on the Printer is incorrect.	Contact and check with the system administrator.	Contact the system administrator.

Cause	Check	Action
The protocol (XPT, FTP, and LPR) is not set.	Are the settings on the device side of the used protocols (XPT, FTP, LPR) enabled?	Enable the settings of the used protocols.
The lpr printer name is incorrect (when using the LPR protocol).	Do the printer names on the host side and device side match?	Set the correct printer name. (The setting method differs between UNIX and Windows. Check with the system administrator.)
The ftp user name is incorrect (when using the FTP protocol).	Does the user name specified from the host side match the user name set on the device?	Use the correct user name, or change the user name setting of the device.
The ftp password is incorrect (when using the FTP protocol).	Does the password specified from the host side match the user name set on the device (the user name is the password on the device)?	Use the correct password, or change the user name setting of the device.
The TCP port setting is incorrect.	Do the TCP port addresses on the host side and device side match?	Set the correct XPT port address.
The network settings such as TCP protocol, on the host side are incorrect.	Check with the system administrator.	Set the host side correctly. (The setting method differs between host devices. Check with the system administrator.)

■ When there are output result errors

Cause	Check	Action
Binary is not specified (during FTP connection).	Is data sent after issuing the FTP command (bin)?	Issue the bin command before sending the data to the device. (However, with some host devices, bin is not issued even after setting the bin specification. In such a case, set the setting on the device side to bin fixed.)

Image Quality Defects

This section describes the action to solve printing quality problems. Take action as appropriate for the symptom.

■ Action for Image Quality Defects

Symptom	Cause	Action
Printing is too dark or light	-----	Try adjusting the print density. 📖 page 91
Printing is partially missing	The installed paper type and the touchpanel setting's paper type do not match.	Replace the paper or change the touchpanel setting. 📖 page 46 or page 87
	The paper is moist.	Cut off the top of the roll paper installed in the Printer. 📖 page 230 Set the heater to On. 📖 page 42
	The installed paper is not OKI Data Infotech-specified.	Install the OKI Data Infotech-specified paper. 📖 page 29
Black lines appear partially on the printout.	The service life of the process cartridge is coming to an end.	Replace the process cartridge. 📖 page 66



TIP

◇ The Printer can be set to cut the top of the roll paper automatically before the next printing operation if the Printer does not print for the prescribed time or more between the current printing and the next printing. (📖 [page 89](#), [Top Cut Timer \(Roll 1 to 4\)](#))

Unusual Sound

If the Printer issues an unusual sound, contact your dealer or nearest service representative.

Chapter

1

Before Use

Chapter

2

Basic Operations

Chapter

3

Menu Functions

Chapter

4

Print Job Box Function

Chapter

5

Authentication Function

Chapter

6

Troubleshooting

Appendix

When you have set the wrong language

If you have specified the wrong language setting and you cannot operate the Printer, perform the following solution.

- 1** Restart the Printer.
- 2** The Printer starts normally and the standby screen appears. Press the following buttons consecutively.
Cancel --> . --> Enter --> Cancel
- 3** The language selection screen appears. Select a language.

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

Chapter
5

Authentication
Function

Chapter
6

Troubleshooting

Appendix

Appendix

The Appendix contains information such as the Printer's basic specifications, components, menu structure, and command lists.

Chapter Contents

- ▼ **Basic Specifications..... 254**
- ▼ **Menu Structure 256**
- ▼ **Command Lists274**

Basic Specifications

◆ Printer Specifications

(1/2)

Item	Specification/Function	
	LP-2060	LP-2060-MF
Printing system	Electrophotographic technology (LED exposure)	
Developing system	single-component type dry developing	
Photoconductor type	OPC	
Fuser system	Heat rollers	
Resolution	600 dpi	
Feed mechanism, output direction	2-stage 4-roll, front inlet or rear output	
Paper type	Plain paper, recycled paper, tracing paper, matte film	
Paper size	Roll paper (width) A0/A1/A2/A3, 36"/24"/18"/12"	
Maximum print length	15 m (49 feet)	
Warming up time	180 seconds or less	
First printing	A0 printing within 27 seconds	
Guaranteed print area (roll paper only)	Full area excluding blank spaces below: - 5 mm on front end - 5 mm on rear end - 5 mm on both sides	
Data format	D-SCAN, HP-GL, HP-GL/2, HPRTL, TIFF, CALS	
HDD	500 GB	
Interface	Ethernet (10Base-T/100Base-Tx/1000Base-T)	
Network protocol	TCP/IP (ftp, lpr, xpt (socket))	

(2/2)

Item	Specification/Function	
	LP-2060	LP-2060-MF
Noise	During operation (continuous sound): 61 dB (A) or less During operation (discontinuous sound): 66 dB (A) or less During standby: 53 dB (A) or less	
Calorific value	7020 kJ or less	
Power voltage	AC120V±10% (U.S.A version) AC230V±10% (European version)	
Frequency	50 / 60 Hz ± 1 Hz	
Power consumption	During operation: 1950 W or less	
External dimensions	1200mm (47.24 inches) (W) × 640mm (25.20 inches) (D) × 1150mm (45.28 inches) (H)	1200mm (47.24 inches) (W) × 640mm (25.20 inches) (D) × 1200mm (47.24 inches) (H)
Weight	230 kg (507.06 lb) or less	255 kg (562.18 lb) or less
Operation temperature and humidity range	15 to 35°C (59 to 95°F) / 20 to 80% RH (no condensation) At the temperature 35°C (95°F), keep the humidity at 48% RH or less. At the humidity 80% RH, keep the temperature at 28°C (82.4°F) or less.	
Standby temperature and humidity range	-5 to 40°C (23 to 104°F) / 10 to 90% RH or less (no condensation)	
Installation space	2100 mm (82.68 inches) (W) × 2740 mm (107.87 inches) (D) × 2000 mm (78.74 inches) (H)	
Maintenance space	3200 mm (125.98 inches) (W) × 3540 mm (139.37 inches) (D) × 2000 mm (78.74 inches) (H)	

Menu Structure



TIP

◇ The menu structure in this section was created based on the Printer's factory default settings.



page 113

page 117



page 162

◆ Printer Engine Menu

Printer Engine	Power Save Time	15 minutes
		30 minutes
		■ 60 minutes
		90 minutes
		235 minutes
	Top Cut Timer (Roll 1 to 4)	■ Off
		30 minutes
		1 hour
		2 hours
		4 hours
		1 minute
		5 minutes
		10 minutes
	Top Cut at Door Open	■ Off
		On
	Print Density	Low
		Slightly Low
		■ Normal
		Slightly High
		High
	Humidity for Tracing Paper	■ Normal
		High Humidity
	Power Saving in Standby	■ Off
		Medium
		High
	Output Report to Tray	Off
		■ A3 Tray
	Print Reports with Other Paper	■ On
		Off

■: Default value

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

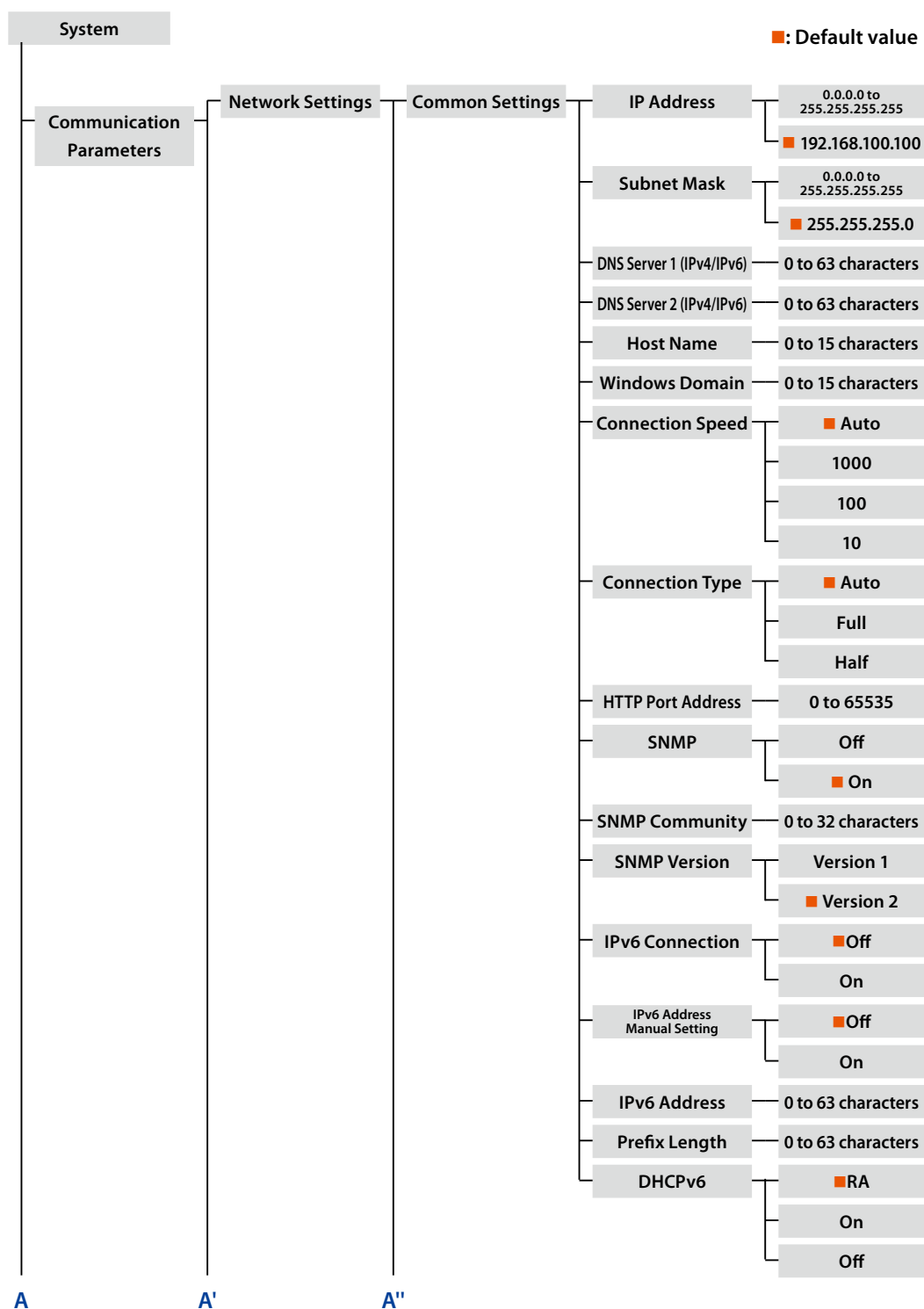
Authentication Function

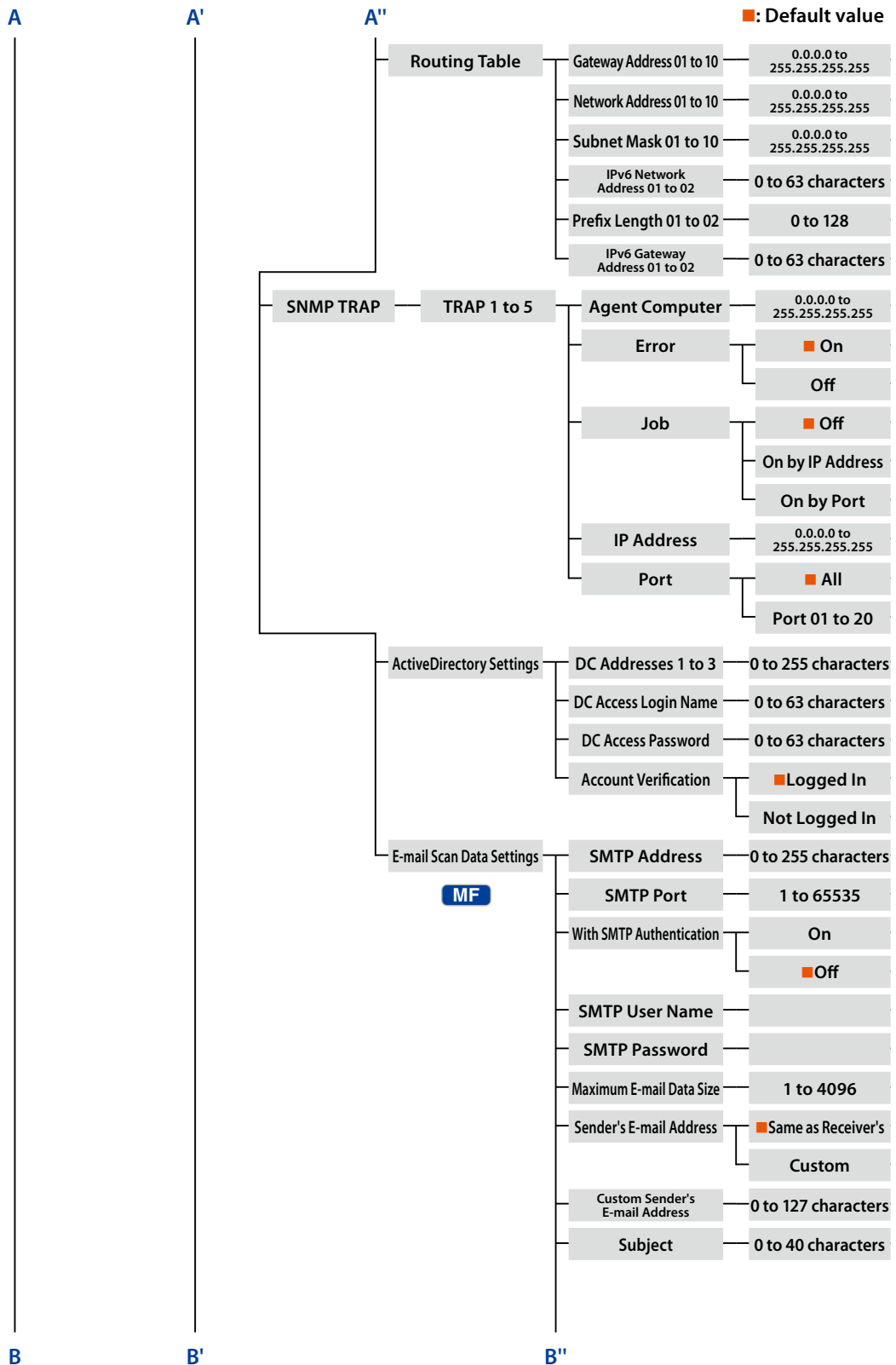
Chapter
6

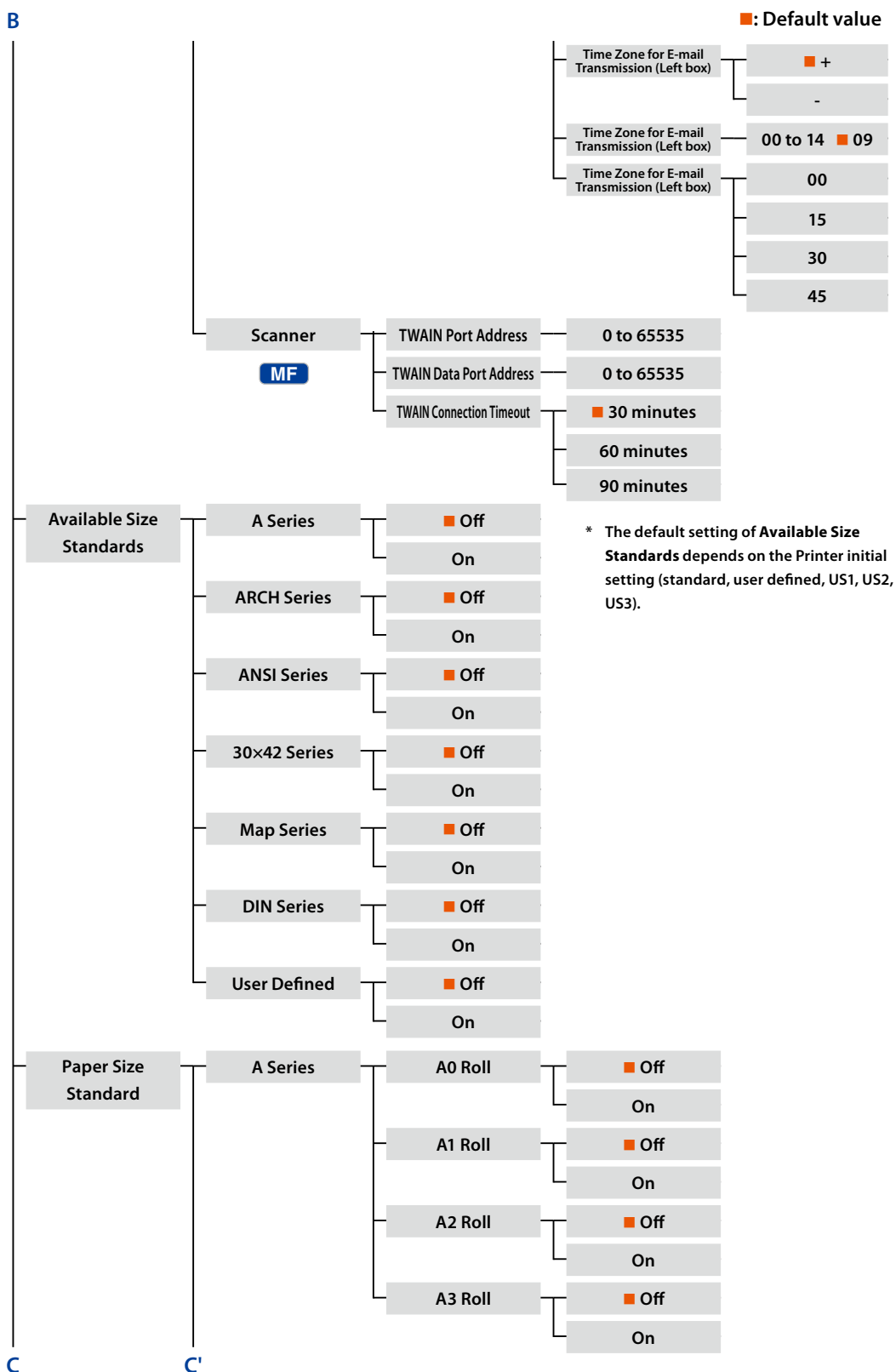
Troubleshooting

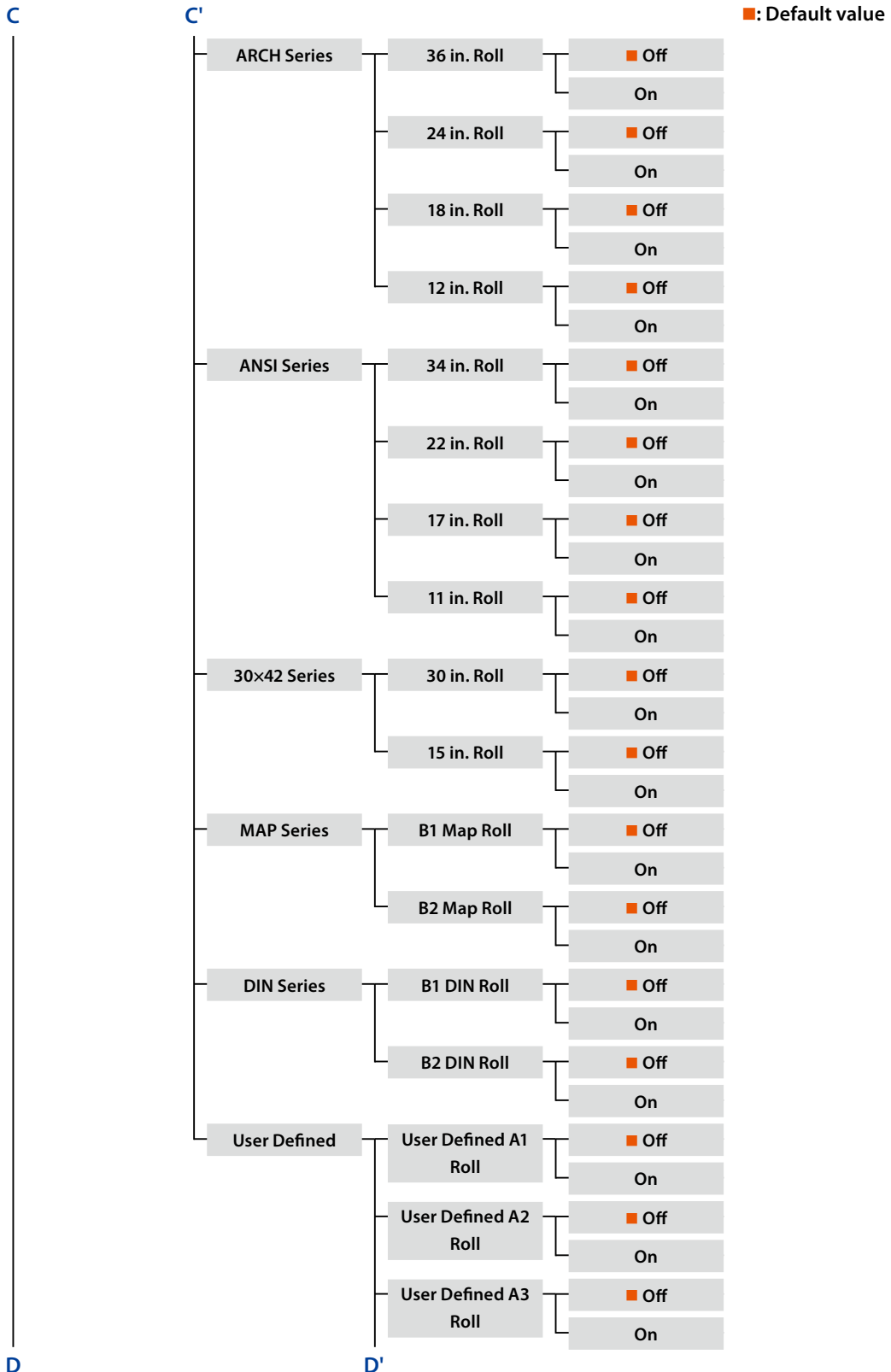
Appendix

◆ System Menu

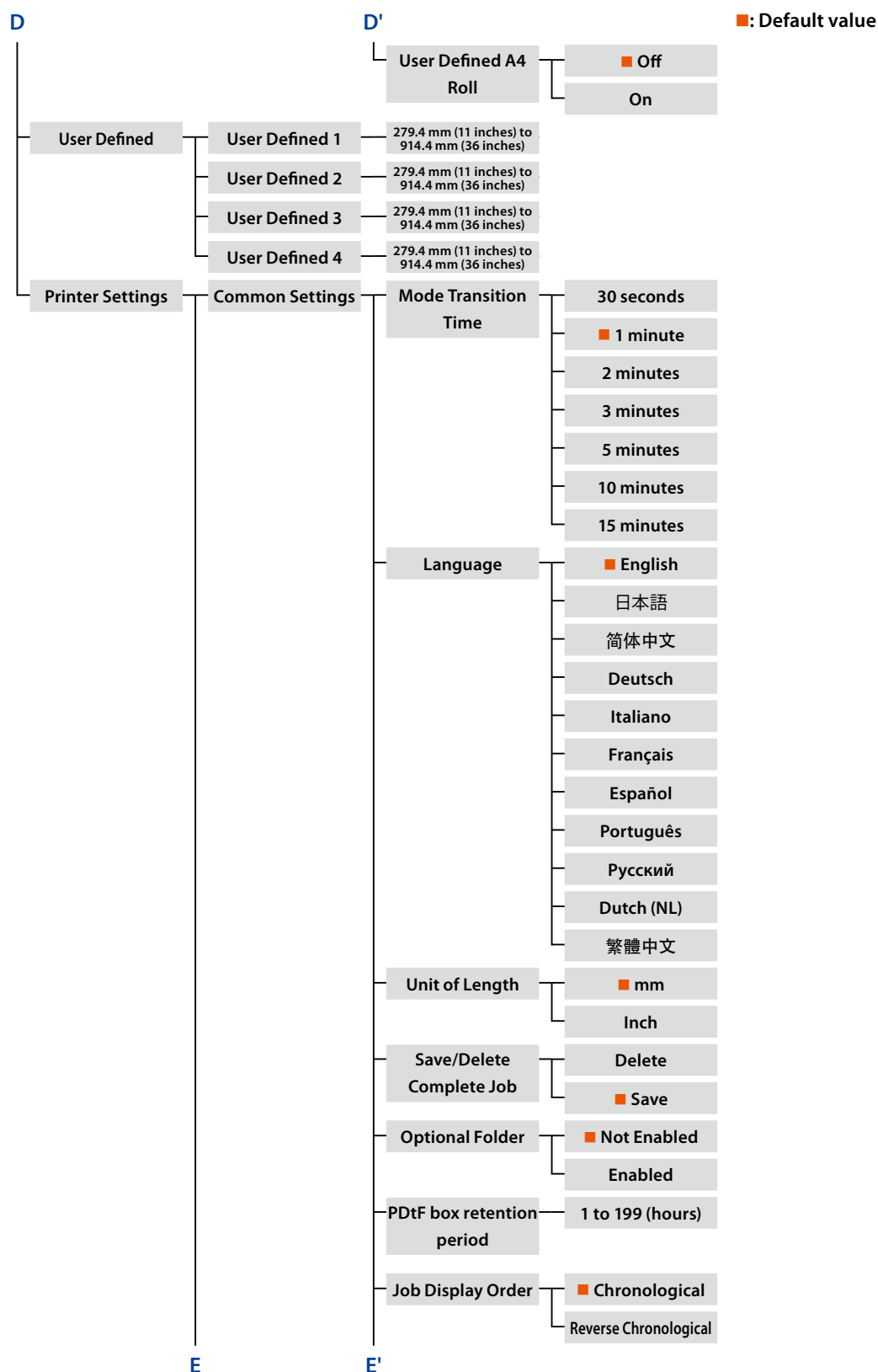


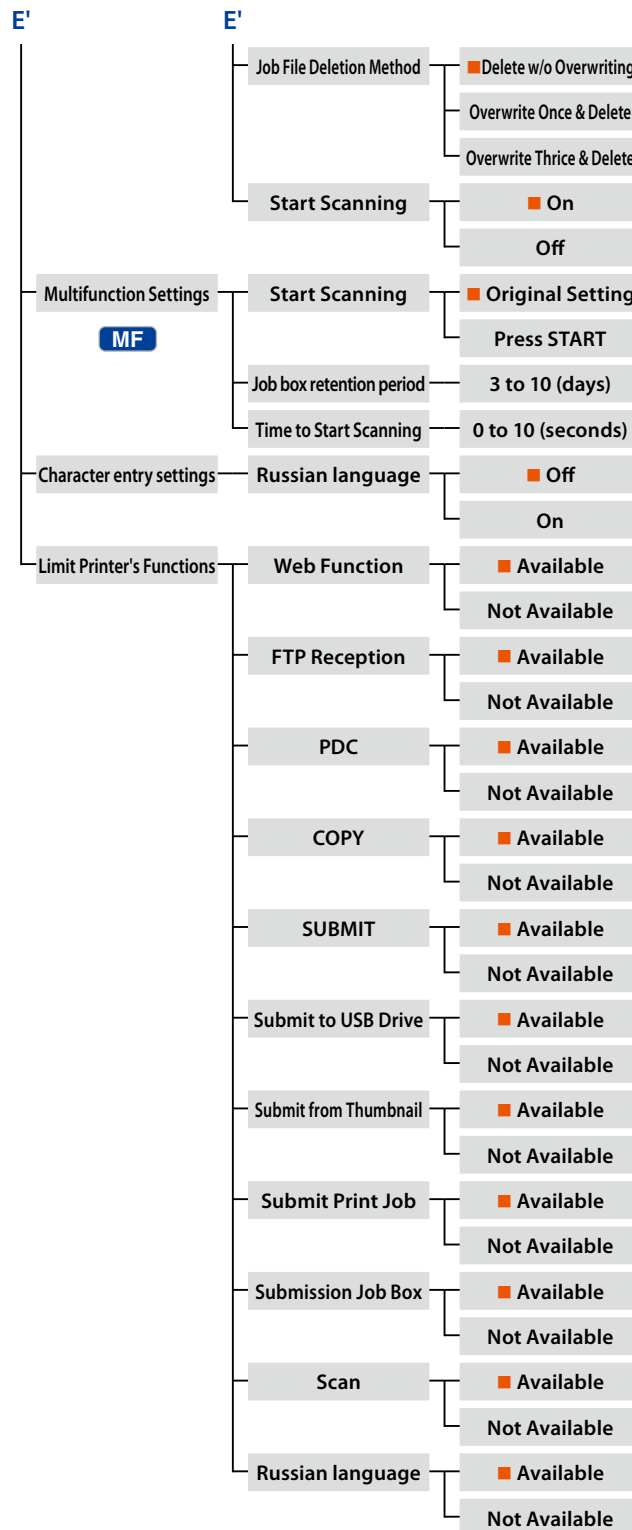




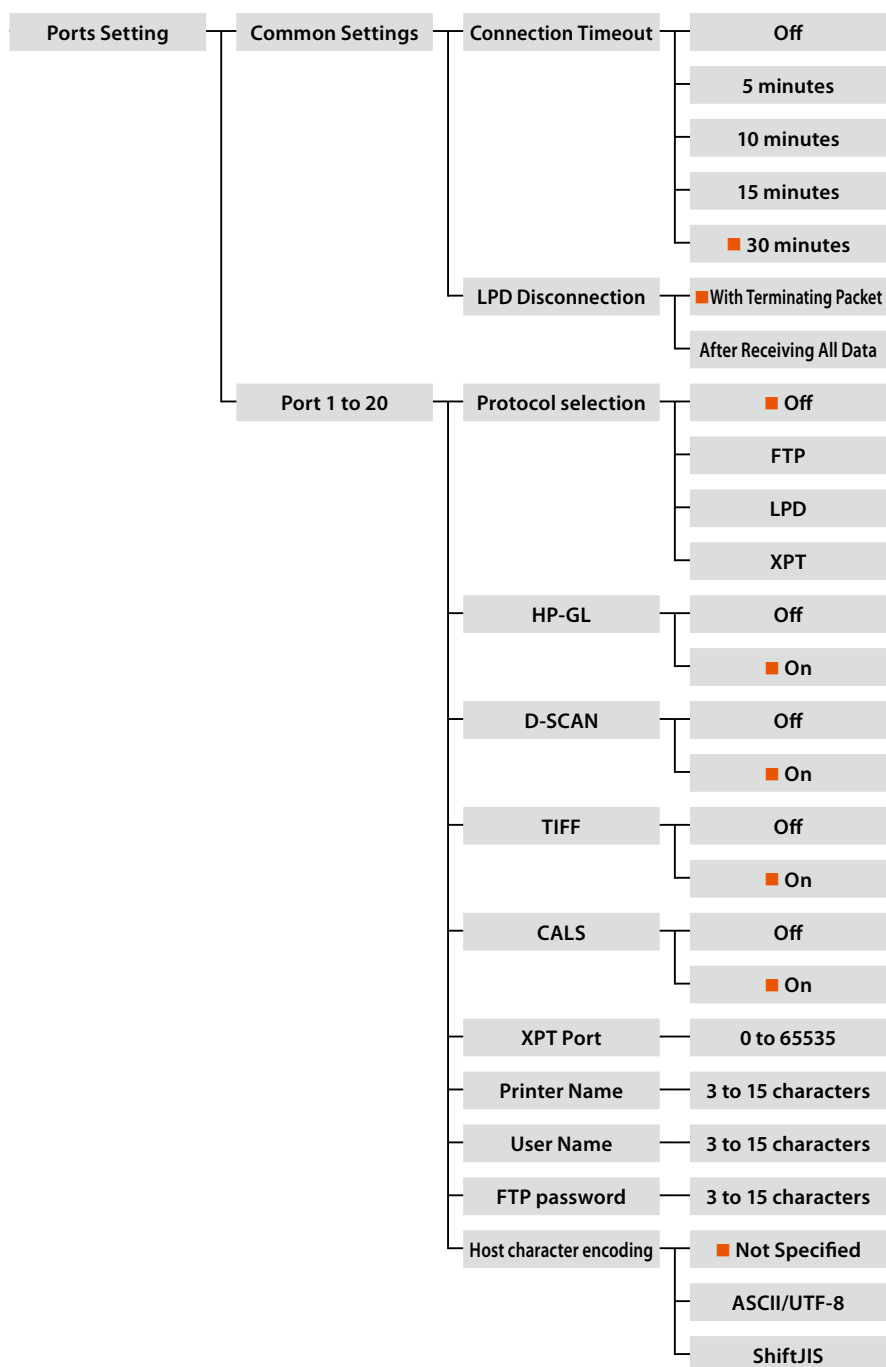


▼ Menu Structure



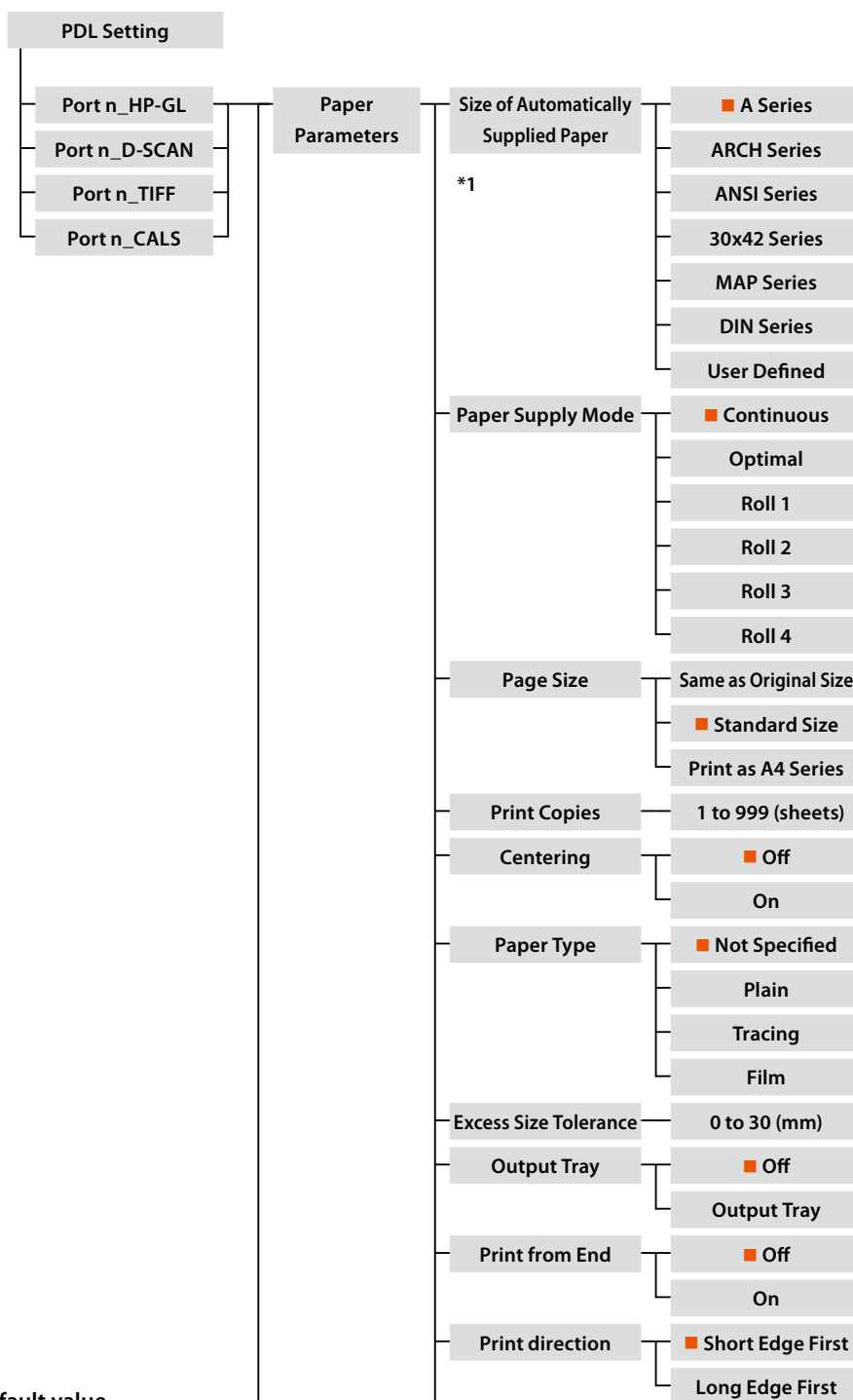


◆ Ports Setting Menu



■: Default value

◆ PDL Setting Menu



■: Default value

*1: HP-GL, TIFF, CALS only.

F

F'

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

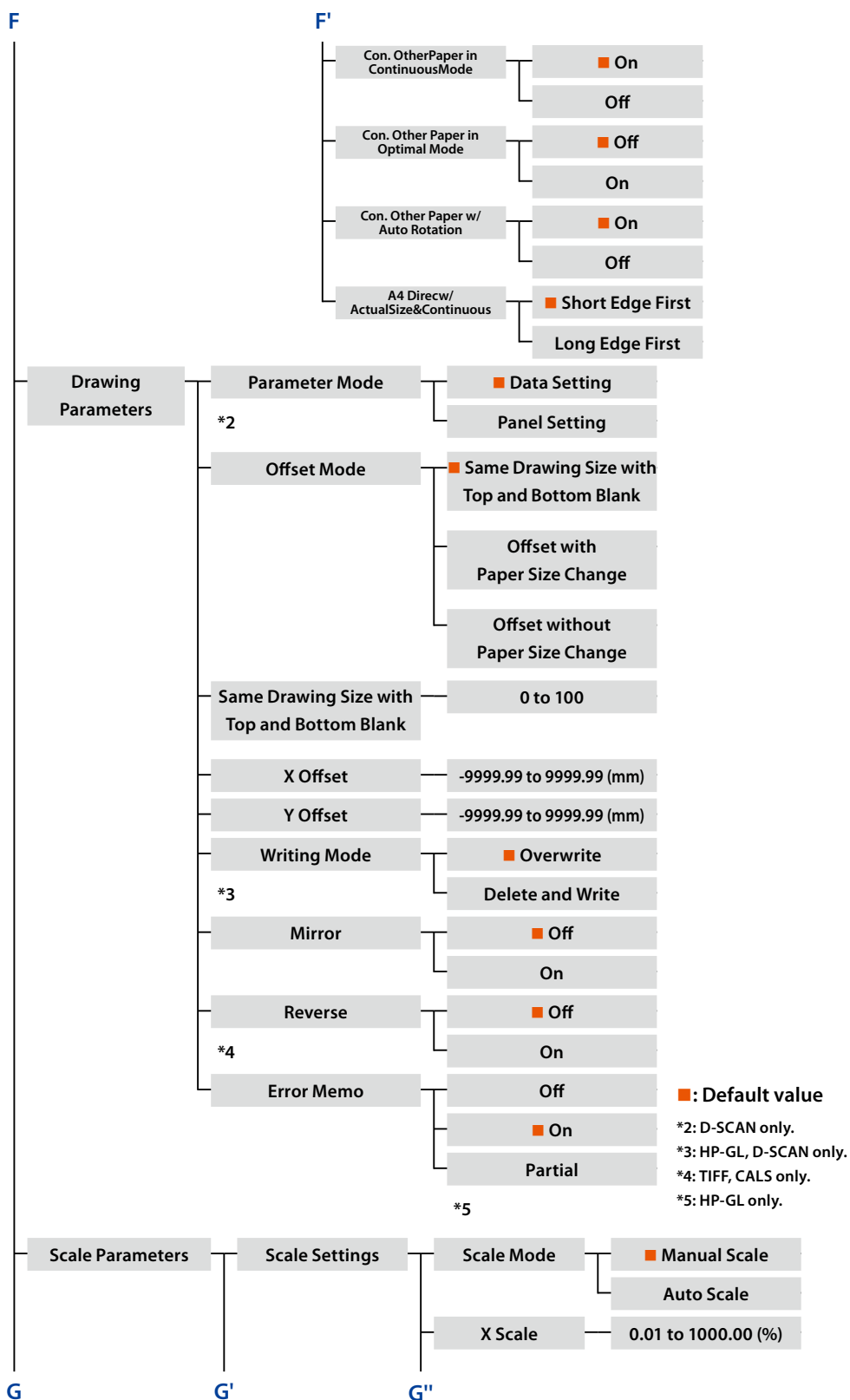
Chapter
5

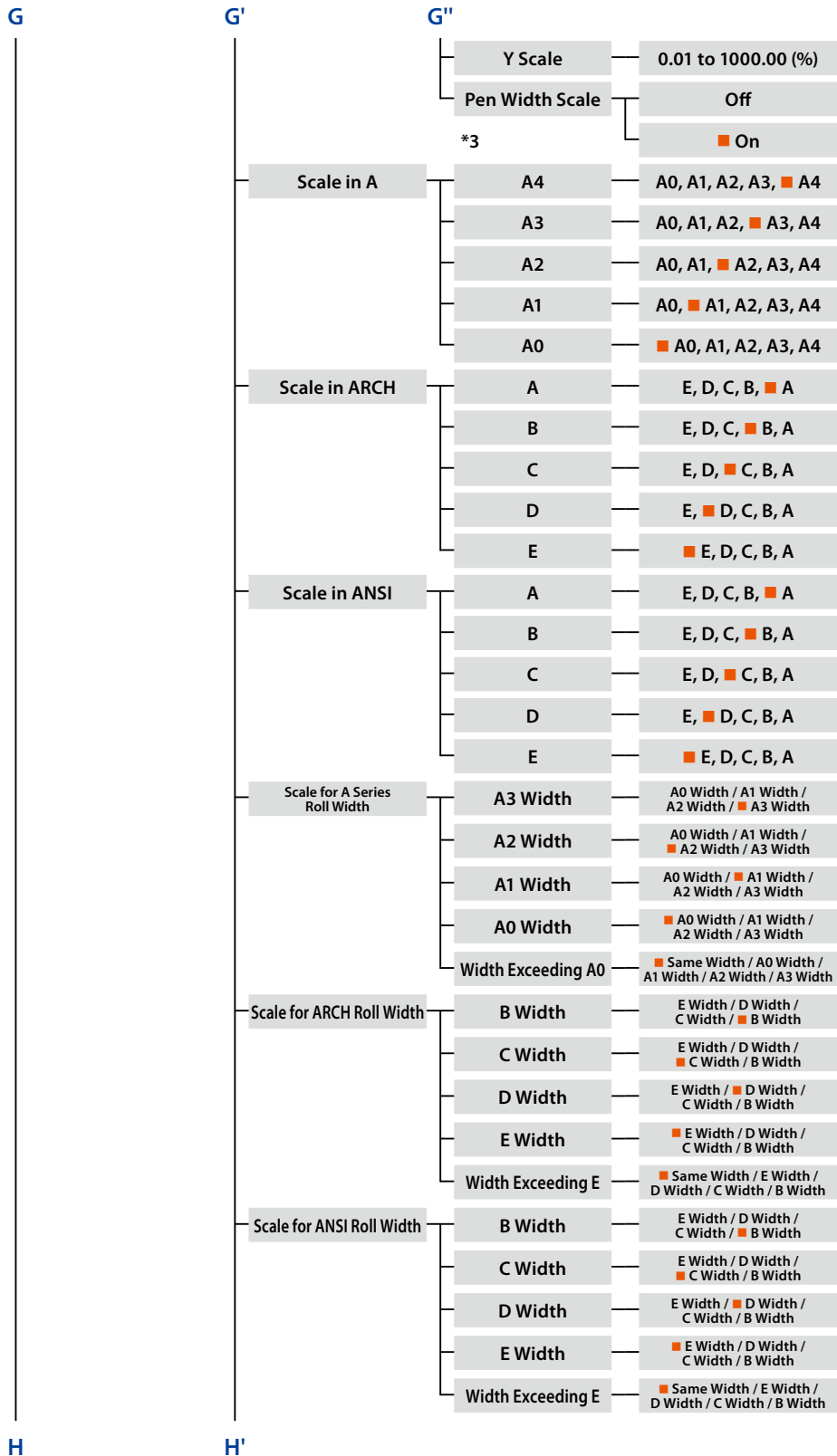
Authentication
Function

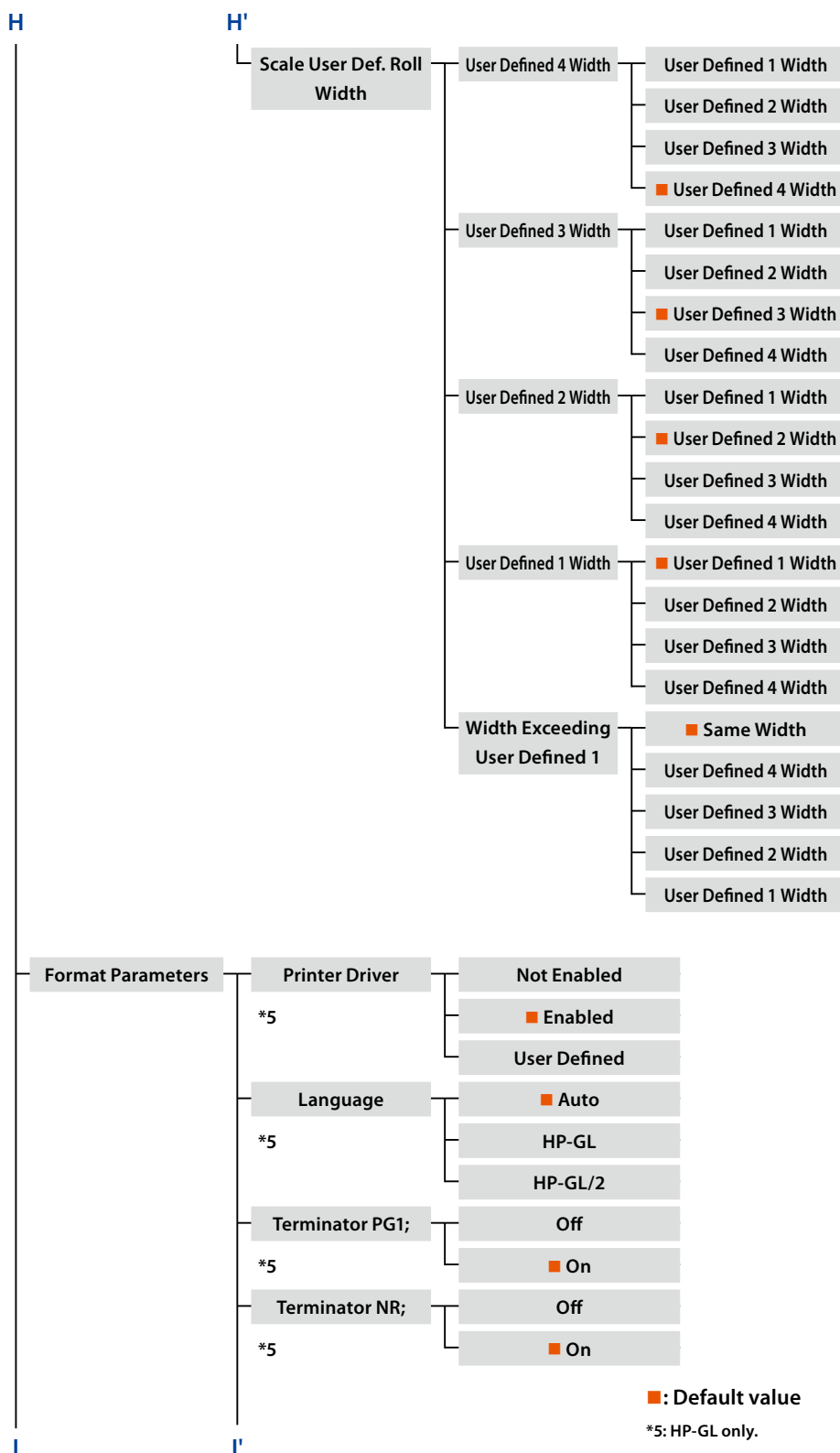
Chapter
6

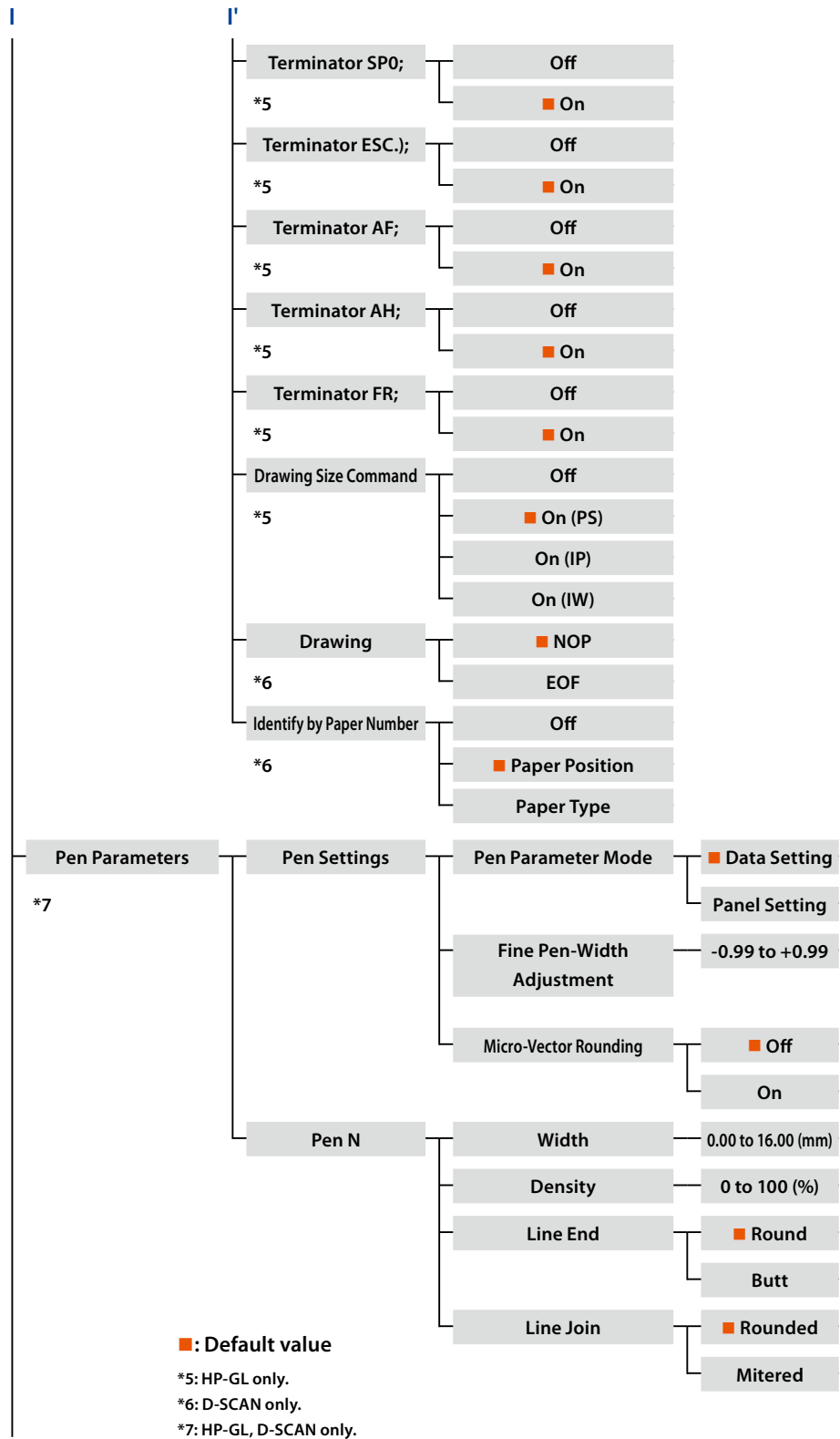
Troubleshooting

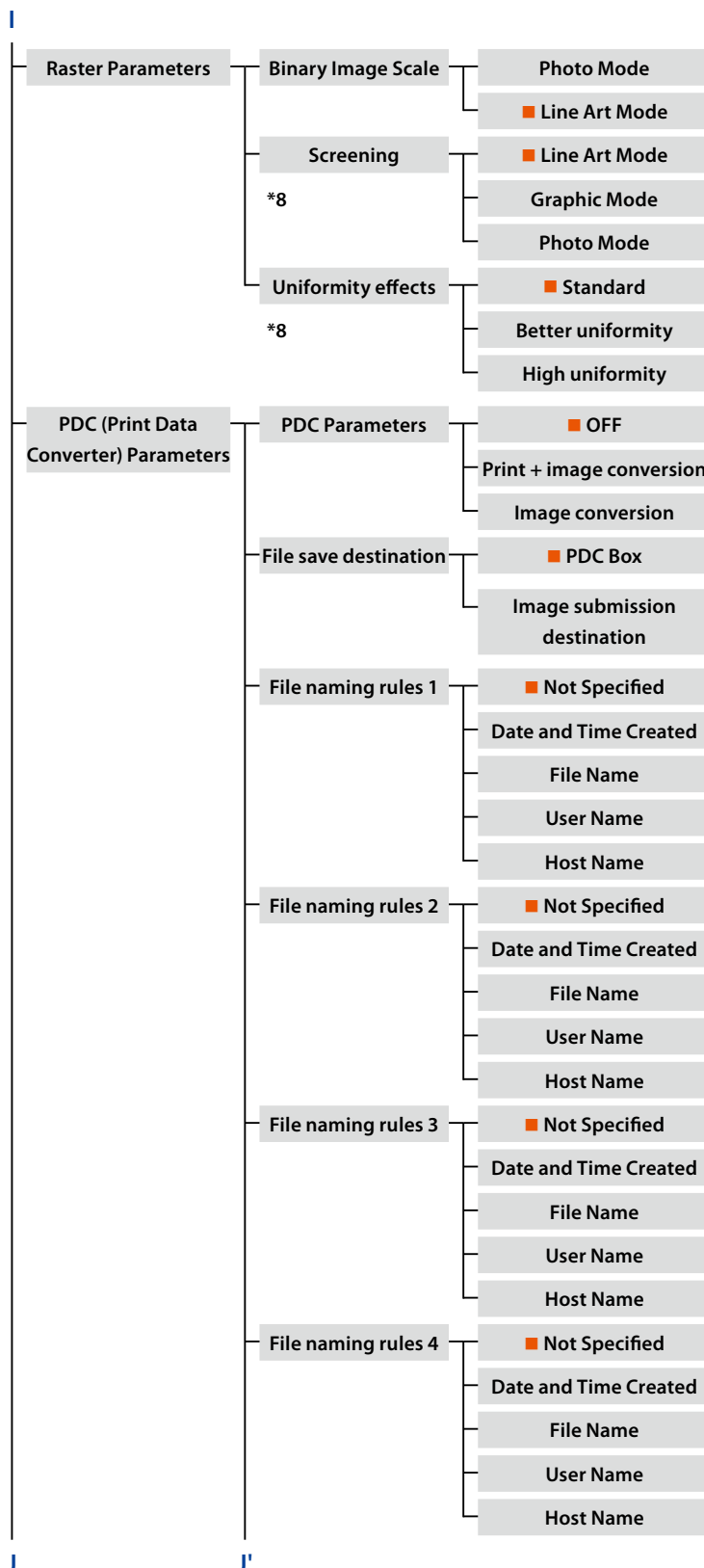
Appendix





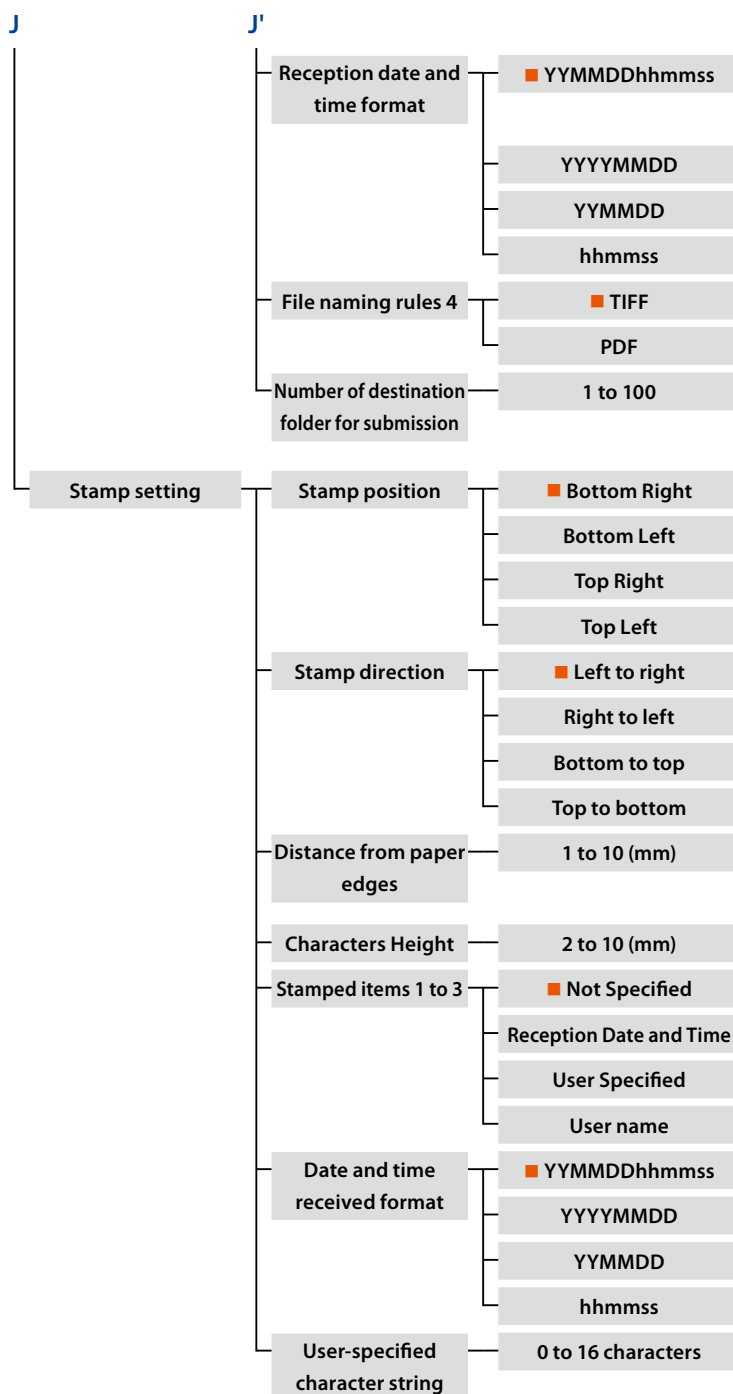






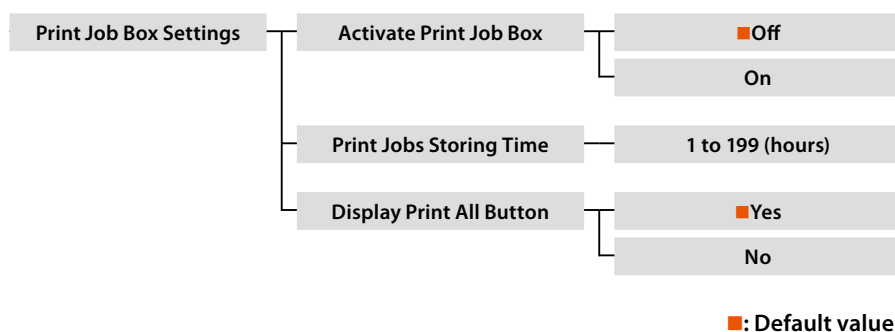
■: Default value

*8: HP-GL, D-SCAN, TIFF only.

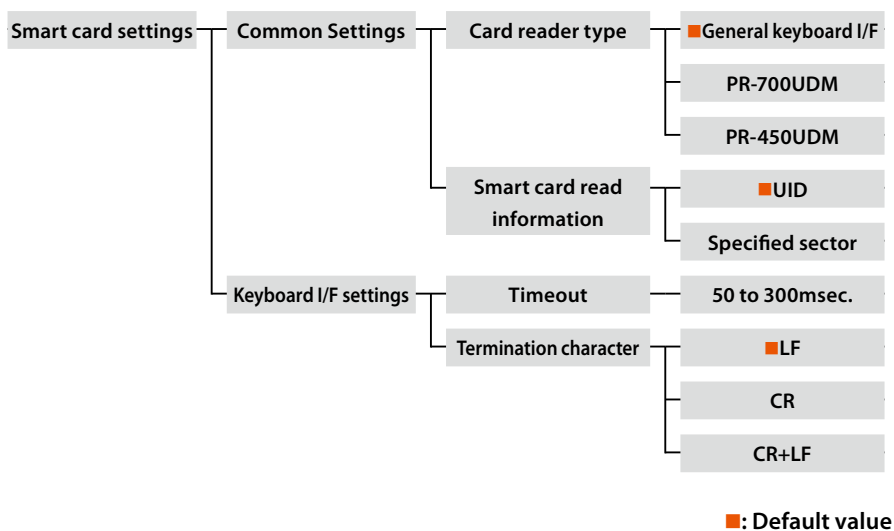


■: Default value

◆ Print Job Box Settings Menu



◆ Smart card settings Menu



Command Lists

◆ List of HP-GL and HP-GL/2 Printer Engine Control Commands

The meaning of the symbols in the table is as follows.

Yes : Indicates commands supported by the Printer.

Partially : Indicates commands whose functions are partially supported by the Printer.

No : Indicates commands not supported by the Printer.

If the Printer receives any non-supported commands, it ignores them. If a command not in the table is received, a command error results.

Command	Function	Supported
ESC.(ESC.Y	Printer on command	Yes
ESC.) ESC.Z	Printer off command	Yes
ESC.@	Printer configuration setting command	No ⁽¹⁾
ESC.A	Printer model number output command	No ⁽¹⁾
ESC.B	Buffer space output command	No ⁽¹⁾
ESC.E	Enlargement error number output command	No ⁽¹⁾
ESC.H	Handshake mode 1 setting command	No ⁽¹⁾
ESC.I	Handshake mode 2 setting command	No ⁽¹⁾
ESC.J	Printer engine control command aboard command	No ⁽¹⁾
ESC.K	Printing aboard command	No ⁽¹⁾
ESC.L	Logical I/O buffer size output command	No ⁽¹⁾
ESC.M	Output setting command	No ⁽¹⁾
ESC.N	Output mode, handshake mode enlargement setting command	No ⁽¹⁾
ESC.O	Enlargement status output command	No ⁽¹⁾
ESC.P	Handshake mode standard setting command	No ⁽¹⁾
ESC.Q	Monitor mode setting command	No ⁽¹⁾
ESC.R	Reset command	No ⁽¹⁾
ESC.S	Buffer size output command	No ⁽¹⁾
ESC T	Buffer size setting command	No ⁽¹⁾
ESC.U	Flash buffer end	No ⁽¹⁾

⁽¹⁾ Because serial communication is not supported.

⁽²⁾ Enabled only for binary raster data. For vector data and variable raster data, only color overlap mode is enabled.

⁽³⁾ The fonts of the font numbers specified with the AD and SD commands are printed with the fonts of the font numbers indicated in the CS command table below.

⁽⁴⁾ Recognized as EOF.

◆ List of HP-GL and HP-GL/2 Printer Engine Printing Commands

The meaning of the symbols in the table is as follows.

Yes : Indicates commands supported by the Printer.

Partially : Indicates commands whose functions are partially supported by the Printer.

No : Indicates commands not supported by the Printer.

If the Printer receives any non-supported commands, it ignores them. If a command that is not in the table is received, it results in a command error.

(1/3)

Category	Command	Function	Supported
Page Information	DF	Standard setting command	Yes
	IN	Default setting command	Yes
	IP	Scaling point setting command	Yes
	SC	Scale command	Yes
	RO	Coordinate system rotation command	Yes
	IW	Window setting command	Yes
	PS	Page size setting command	Yes
	IR	Relative scaling point setting command	Yes
	BP	Page information setting command	Yes
	QL	Page quality setting command	Yes
Pen Attributes	RP	Reprint command	No
	SP	Pen number selection command	Yes
	PC	Pen color setting command	Yes
	PW	Pen width setting command	Yes
	WU	Pen width mode setting command	Yes
	LT	Line type selection command	Yes
	UL	Line type user definition	Yes
	LA	Line end/connection type selection command	Yes
	NP	Number of pens setting command	Yes
	CR	Color range setting command	Yes
Vector Commands	GP	Pen group specification command	No
	SG	Pen group selection command	No
	PA	Absolute coordinates movement command	Yes
	PR	Relative coordinates movement command	Yes
	PD	Pen down command	Yes
	PU	Pen up command	Yes
	EA	Absolute coordinates rectangle printing command	Yes
	ER	Relative coordinates rectangle printing command	Yes
	AA	Absolute coordinates arc printing command	Yes
	AR	Relative coordinates arc printing command	Yes
	CI	Circle printing command	Yes
	EW	Fan-shaped printing command	Yes
	AT	Absolute coordinates 3-point arc printing command	Yes
	RT	Relative coordinates 3-point arc printing command	Yes
	CT	Arc resolution mode selection command	Yes
	TL	Graduation length setting command	Yes
	XT	X axis graduation printing command	Yes
	YT	Y axis graduation printing command	Yes
	PE	Encryption printing command	Yes
	BZ	Absolute coordinates Bezier printing command	Yes
	BR	Relative coordinates Bezier printing command	Yes

▼ Command Lists

(2/3)

Category	Command	Function	Supported
Coating Attributes	FT	Painting style setting command	Yes
	PT	Hatch interval setting command	No
	AC	Coating pattern reference point setting command	Yes
	RF	Coating pattern definition command	Yes
	MC	Color overlap control command	Partially (†)
	TR	Transparent mode selection command	Yes
	UF	Hatch Painting pattern definition command	No
Coating Commands	SV	Vector Painting style setting command	No
	RA	Absolute coordinates rectangle Painting command	Yes
	RR	Relative coordinates rectangle Painting command	Yes
Polygon Commands	WG	Fan-shaped Painting command	Yes
	PM	Polygon mode setting command	Yes
	EP	Polygon frame printing command	Yes
	FP	Polygon coating command	Yes
Character Attributes	SI	Absolute character size setting command	Yes
	SR	Relative character size setting command	Yes
	DI	Absolute character direction setting command	Yes
	DR	Relative character direction setting command	Yes
	DV	Character writing direction setting command	Yes
	ES	Character interval setting command	Yes
	SL	Italic character setting command	Yes
	LO	Character string origin point setting command	Yes
	DT	Character string terminator setting command	Yes
	CA	Supplementary character set setting command	Yes
	CS	Standard character set setting command	Yes
	SA	Supplementary character set selection command	Yes
	SS	Standard character set selection command	Yes
	AD	Supplementary character font setting command	Partially (†)
	SD	Standard character font setting command	Partially (†)
	LM	Character code selection command	Yes
	TD	Control character printing setting command	No
	CM	Character code, undefined character setting command	No
	DS	Character slot setting command	No
	IV	Character slot assignment command	No
	CC	Arc character resolution setting command	No
	CF	Font coating style setting command	No
	FI	Standard font ID setting command	No
	FN	Supplementary font ID setting command	No
	SB	Bitmap font setting command	No
Character Commands	LB	Character string printing command	Yes
	BL	Character string storage command	Yes
	PB	Stored character string printing command	Yes
	CP	Number of characters movement command	Yes
	SM	Symbol mode setting command	Yes
	DL	User character registration command	Yes
	UC	User character printing command	Yes

(3/3)

Category	Command	Function	Supported
Enlargement Commands	NR	Not ready command	Yes
	AF	1 page paper feed command	Partially
	AH	Half page paper feed command	Partially (†)
	FR	1 frame paper feed command	Partially (†)
	PG	Printing end command	Yes
	MG	Message display command	No
	IM	Error mask command	Yes
	EC	Cutter control command	Yes
	AP	Automatic pen status setting command	No
	AS	Pen acceleration setting command	No
	FS	Pen pressure setting command	No
	VS	Pen speed setting command	No
	MT	Paper type setting command	No
	ST	Sorting setting command	No
Digitize Commands	PP	Pixel position selection command	No
	DC	Digitize mode cancellation command	No
Output Commands	DP	Digitize mode transition command	No
	OA	Pen position, status output command (Printer unit)	No (‡)
	OC	Pen position, status output command (user unit)	No (‡)
	OD	Digitize position, status output command	No (‡)
	OE	Error output command	No (‡)
	OF	Printer unit output command	No (‡)
	OH	Hard clip limit output command	No (‡)
	OI	Model ID number output command	No (‡)
	OL	Stored character string information output command	No (‡)
	OO	Option output command	No (‡)
	OP	Scaling point output command	No (‡)
	OS	Status output command	No (‡)
	OT	Carousel type error command	No (‡)
	OW	Window output command	No (‡)

(‡) Because serial communication is not supported.

(†) Enabled only for binary raster data. For vector data and variable raster data, only color overlap mode is enabled.

(‡) The fonts of the font numbers specified with the AD and SD commands are printed with the fonts of the font numbers indicated in the CS command table below.

(†) Recognized as EOF.

AD, SD Specification Font No.	Corresponding CS Font No.	AD, SD Specification Font No.	Corresponding CS Font No.	AD, SD Specification Font No.	Corresponding CS Font No.	AD, SD Specification Font No.	Corresponding CS Font No.
0	0	19	31	83	37	563	99
4	32	21	0	85	35	595	5
5	7	36	32	115	30	1611 (Kanji)	101 (Kanji)
6	34	37	35	147	38	1643 (Kanji)	101 (Kanji)
9	36	38	34	267	8		
11	6	39	33	277	0		
14	0	43	8	531	(Note 1)		

(Note 1) Character set 531 is handled as user defined characters.

◆ List of HP RTL Printing Commands

The meaning of the symbols in the table is as follows.

Yes: Indicates commands supported by the Printer.

Partially: Indicates commands whose functions are partially supported by the Printer.

No: Indicates commands not supported by the Printer.

If the Printer receives any non-supported commands, it ignores them. If a command that is not in the table is received, it results in a command error.

(1/2)

Command		Function	Supported
Name	Code		
Enter HP-GL/2 Mode	ESC % # B	Transitions to HP-GL/2 mode.	Partially (i)
Enter PCL Mode	ESC % # A	Transitions to PCL mode.	Partially (i)
Reset	ESC E	Resets.	Partially (i)
Universal Exit Language/Start of PCL	ESC % # X	Starts PCL.	No
Apple Talk Configuration	ESC & b # W [bin data]	Communicates with the Apple Talk driver.	No
Configure Image Data	ESC * v # W [data]	Configures the image data.	Partially (i)
Set Red Parameter	ESC * v # a A	Sets the red parameter.	Yes
Set Green Parameter	ESC * v # b B	Sets the green parameter.	Yes
Set Blue Parameter	ESC * v # c C	Sets the blue parameter.	Yes
Assign Color Index	ESC * v # i i	Assigns the color index number.	Partially (i)
Push/Pop palette	ESC * p # P	Pushes or pops the palette.	Partially (i)
Source Raster Width	ESC * r # s S	Sets the source raster width.	Yes
Source Raster Height	ESC * r # t T	Sets the source raster height.	Yes
Move CAP Horizontal (Decipoints)	ESC & a # h H	Performs CAP horizontal movement (decipoints).	Yes
Move CAP Horizontal	ESC * p # x X	Performs CAP horizontal movement.	Yes
Move CAP Vertical	ESC * p # y Y	Performs CAP vertical movement.	Yes
Y Offset	ESC * b # y Y	Sets the Y direction offset.	Yes
Destination Raster Width	ESC * t # h H	Sets the destination raster width.	Yes
Destination Raster Height	ESC * t # v V	Sets the destination raster height.	Yes
Raster Line Path	ESC * b # l L	Sets the raster line path.	Yes
Negative Motion	ESC & a # n N	Specifies a negative movement.	Yes
Set Graphics Resolution	ESC * t # r R	Sets the graphics resolution.	Yes
Start Raster Graphics	ESC * r # a A	Indicates the start of raster graphics.	Yes
End Raster Graphics	ESC * r C	Indicates the end of raster graphics.	Yes
Transfer Raster Data by Plane	ESC * b # V [data]	Transmits the raster data in plane units.	Yes
Transfer Raster Data by Row/Block	ESC * b # W [data]	Transmits the raster data in row/block units.	Yes
Set Compression Method	ESC * b # m M	Sets the compression method.	Yes
Foreground Color	ESC * v # s S	Sets the RGB value of the specified index number as the lower limit for raster printing.	No
Render Algorithm	ESC * t # j J	Specifies the algorithm for expressing neutral color data.	Partially (i)

(2/2)

Command		Function	Supported
Name	Code		
Simple Color	ESC * r # u U	Sets the color mode.	Yes
Current Pattern	ESC * v # t T	Sets the pattern type for the raster.	No
Download Pattern	ESC * c # W [pattern data]	Loads a user defined pattern.	No
Pattern Control	ESC * c # q Q	Specifies the deletion of a user defined pattern.	No
Pattern ID	ESC * c # g G	Sets the ID of a user defined pattern.	No
Pattern Reference	ESC * p # r R	Defines the paste position for the pattern.	No
Logical Operation	ESC * l # o O	Specifies the logical calculation mode for the raster data.	Partially ^(f)
Pattern Transparency Mode	ESC * v # o O	Specifies transparency mode on/off for the pattern.	No
Source Transparency Mode	ESC * v # n N	Specifies transparency mode on/off for the source raster.	No

- (¹) Parameter value **-1** is handled as **0**.
 Parameter values **-1** to **3** have no effect on palette information.
- (²) Parameter values **0** to **3** have no effect on palette information.
- (³) Partial pages in the received data are not printed.
- (⁴) Parameter **4** in Set Pixel Encoding Mode is not supported.
 The specifiable range in Set Number of Bit per Index is 1 to 8.
 The specifiable range in Set Number of Bit per Primary is 0 to 8.
- (⁵) The specifiable parameter range is **0** to **31** (2**5-1).
- (⁶) Pushing and popping are not performed for the pen width.
- (⁷) The only parameter value enabled for ESC*t#J is **0**.
- (⁸) ESC*l#O is enabled only in some logical calculations for monochrome binary raster.

Commands not included in the table result in command errors or are disregarded.

◆ List of D-SCAN Format Commands

The meaning of the symbols in the table is as follows.

Yes: Indicates commands supported by the Printer.

No: Indicates commands not supported by the Printer (ignored by the Printer).

(1/6)

Category	Command		Function	Supported
	Name	Hexadecimal		
Basic Functions	DUMMY DATA	0000	Indicates the end of the data for each block.	Yes
	DIMTAB	01	Initializes.	No
	MESSAGE	02	Outputs a message.	No
	PEN	03	Specifies a pen number.	Yes
	PAUSE	04	Pauses printing.	No
	EOD	05	Indicates the end of drawing.	Yes
	INITIAL LOCATION	06	Indicates the initial coordinate location for block 1.	Yes
	PARABOLA	07	Draws a parabola.	Yes
	PAPER FEED	08	Shifts the subsequent data in the X axis direction.	Yes
	SPACING	09	Sets the symbol interval.	Yes
	KANJI	10	Writes kanji.	Yes
	H SPACE	0E	Sets the horizontal space for horizontal kanji writing.	Yes
	V SPACE	0F	Sets the vertical space for vertical kanji writing.	Yes
	DUMMY VERB	1F	Ignores 1 byte of own data.	No
	ARC	21 to 3F	Draws an arc or circle.	Yes
	SYMBOL	40 to 7F	Writes a symbol.	Yes
	PLOT	80 to FF	Prints a line segment or moves a coordinate.	Yes
	PTN SET	0001	Registers a fill pattern.	Yes
	PATRN	0002	Fills the inside of closed polygons.	Yes

Category	Command		Function	Supported
	Name	Hexadecimal		
Basic Functions	FILECONTROL BLOCK	0003	Sets the drawing conditions for the file information block.	Yes
	IEOD	-	Specifies the drawing control (whether to set the page unit as a file or a drawing).	Partially *
	IFSZX, IFSZY	-	Specifies the page size for the file.	Yes
	IDSZX, IDSZY	-	Specifies the page size for the drawing.	Yes
	OFFXX, OFFYY	-	Specifies the offset amount for the page.	Yes
	ISCLX, ISCLY	-	Sets the scaling value for the page.	Yes
	IROTE	-	Specifies the page rotation in units of 90°.	Yes
	IPEN1 8	-	Assigns a pen.	Yes
	ICUT	-	Performs cutting.	No
	NEST	-	Performs nesting.	No
	ICOPY	-	Specifies the number of page copies to print.	Yes
	IASIZ	-	Specifies the page size identification.	Yes
	IPSIZ	-	Specifies the increase amount for the page size. (X axis)	Yes
	PEN1W PEN8W	-	Specifies the pen width.	Yes
	PEN1C PEN8C	-	Specifies the pen color.	Yes
	MIRR	-	Specifies whether or not to perform mirror reverse.	Yes
	RASTR	-	Specifies the enabling or disabling of vector and raster data.	Yes
	REVRS	-	Specifies whether or not to perform white on black reverse.	Yes
	MODEC	-	Specifies the color mode.	Yes
	BINNO	-	Specifies the output bin number for the sorter.	No
	STOCK	-	Specifies the stock of the sorter.	No
	PAPER	-	Specifies the paper type number.	Partially *
	USERN	-	Specifies the user name (EBCDIC).	No

* On hold. Not supported yet.

Category	Command		Function	Supported
	Name	Hexadecimal		
Basic Functions	DRAWING CONTROL BLOCK	0004	Sets the drawing conditions for the drawing information block.	Yes
	IEOD	-	Specifies the drawing control (whether to set the page unit as a file or a drawing).	Partially *
	IFSZX, IFSZY	-	Specifies the page size for the file.	Yes
	IDSZX, IDSZY	-	Specifies the page size for the drawing.	Yes
	OFFXX, OFFYY	-	Specifies the offset amount for the page.	Yes
	ISCLX, ISCLY	-	Sets the scaling value for the page.	Yes
	IROTE	-	Specifies the page rotation in units of 90°.	Yes
	IPEN1 8	-	Assigns a pen.	Yes
	ICUT	-	Performs cutting.	No
	NEST	-	Performs nesting.	No
	ICOPY	-	Specifies the number of page copies to print.	Yes
	IASIZ	-	Specifies the page size identification.	Yes
	IPSIZ	-	Specifies the increase amount for the page size. (X axis)	Yes
	PEN1W PEN8W	-	Specifies the pen width.	Yes
	PEN1C PEN8C	-	Specifies the pen color.	Yes
	MIRR	-	Specifies whether or not to perform mirror reverse.	Yes
	RASTR	-	Specifies the enabling or disabling of vector and raster data.	Yes
	REVRS	-	Specifies whether or not to perform white on black reverse.	Yes
	MODEC	-	Specifies the color mode.	Yes
	BINNO	-	Specifies the output bin number for the sorter.	No
	STOCK	-	Specifies the stock of the sorter.	No
	PAPER	-	Specifies the paper type number.	Partially *
	USERN	-	Specifies the user name (EBCDIC).	No

* On hold. Not supported yet.

Category	Command		Function	Supported
	Name	Hexadecimal		
Advanced Functions	LINE WIDTH	1101	Sets the pen line width.	Yes
	LINE TYPE	1102	Sets the pen line type.	Yes
	LINE COLOR	1103	Sets the pen line color.	Yes
	LINE PATTERN	1104	Registers a line type pattern.	Yes
	COLOR	1105	Sets the color component.*	Yes
	CHARACTER HEIGHT	1110	Sets the height of characters (in mm units).	Yes
	CHARACTER WIDTH	1111	Sets the width of characters (ratio to the character height).	Yes
	CHARACTER SPACING	1112	Sets the interval between characters (ratio to the character height).	Yes
	CHARACTER SLANT	1113	Sets the character direction.	Yes
	TEXT PATH	1114	Sets the character string direction (up-down or left-right).	Yes
	TEXT ALIGNMENT	1115	Sets the alignment standard for character strings (with horizontal direction and vertical direction).	Yes
	CHARACTER SET	1116	Selects the character set.	Yes
	KANJI HEIGHT	1120	Sets the height of kanji (in mm units).	Yes
	KANJI WIDTH	1121	Sets the width of kanji (ratio to the kanji height).	Yes
	KANJI SPACING	1122	Sets the interval between kanji (ratio to the kanji height).	Yes
	KANJI SLANT	1123	Sets the slant of kanji.	Yes
	KANJI PATH	1124	Sets the kanji string direction (up-down or left-right).	Yes
	KANJI ALIGNMENT	1125	Sets the alignment standard for kanji strings (with horizontal direction and vertical direction).	Yes
	CIRCLE	1140	Draws a complete circle.	Yes
	ARC	1141	Draws an arc.	Yes
	TEXT	1142	Draws a character string.	Yes
	KANJI	1143	Draws kanji.	Yes
	FILL AREA CIRCLE	1150	Fills complete circles.	Yes
	FILL AREA FAN	1151	Fills fan shapes.	Yes
	FILL AREA BOW	1152	Fills bow shapes.	Yes

* The maximum values of the 4 parameters (0 to 255) indicating the proportion of yellow, magenta, cyan, and black are used to determine the gradation in 16 levels. This is expressed as the density of black.

Category	Command		Function	Supported
	Name	Hexadecimal		
Advanced Functions	WINDOW	1160	Sets the window.	Yes
	VIEWPORT	1161	Sets the viewport.	Yes
	FILL AREA STYLE	1162	Sets the internal style of polygons.	Yes
	FILL AREA BASE POINT	1163	Sets the pattern and hatch reference point.	Yes
	WRITE MODE	1164	Sets delete and write priority or overwrite.	Yes
	MARKER MODE	1170	Sets the marker attributes (height, coordinate conversion on/off).	Yes
	LINE MODE	1171	Sets the line type attributes (continuous/security).	Yes
	RASTER ALIGNMENT	1180	Sets the alignment standard and alignment direction for the raster.	Yes
	RASTER SCALE	1181	Sets the raster scale.	Yes
	RASTER BYTE MIRROR	1182	Sets the alignment direction (LSB or MSB) for the first bit.	Yes
	PIXEL ALIGNMENT	1183	Sets the alignment standard and alignment direction for the pixels.	Yes
	RASTER GROUP START	1184	Specifies the start of a raster group.	Yes
	RASTER GROUP END	1185	Specifies the end of a raster group.	Yes
	RASTER SCALE 2	1186	Sets the raster input resolution.	Yes
	DIRECT RASTER	1190	Sets the information for direct raster.	Yes
	PACKING RASTER	1191	Sets the information for packing raster.	Yes
	PIXEL	1192	Pixels	Yes
	AREA CLEAR	1193	Sets the white coating range.	Yes
	RASTER CLIP	1194	Sets the raster clip range.	Yes
	DIRECT RASTER 2	1195	Sets the information for direct raster (2).	Yes
	PACKING RASTER 2	1196	Sets the information for packing raster (2).	Yes
	PIXEL 2	1197	Pixels 2	Yes

* On hold. Not supported yet.

Category	Command		Function	Supported
	Name	Hexadecimal		
Advanced Functions	RASTER (MH)	1198	Sets the information for compression raster (MH).	Yes
	RASTER (MR)	1199	Sets the information for compression raster (MR).	Yes
	RASTER (MMR)	119A	Sets the information for compression raster (MMR).	Yes
	DIRECT RASTER 3	119B	Sets the information for direct raster (3) (reference point (mm series)).	Yes
	PACKING RASTER 3	119C	Sets the information for packing raster (3) (reference point (mm series)).	Yes
	RASTER (MH-2)	119D	Sets the information for compression raster (MH-2) (reference point (mm series)).	Yes
	RASTER (MR-2)	119E	Sets the information for compression raster (MR-2) (reference point (mm series)).	Yes
	RASTER (MMR-2)	119F	Sets the information for compression raster (MMR-2) (reference point (mm series)).	Yes
	KANJI DEFINE	11A0	Registers kanji.	No
	KANJI DELETE	11A1	Deletes kanji.	No
	SET PATTERN	1201	Registers a pattern.*	Yes
	SET HATCH	1202	Registers a hatch.	Yes
	POLYLINE	1210	Polyline	Yes
	POLYMAKER	1211	Polymaker	Yes
	POLYGON SET	1212	Polygon set	Yes
	CELL ARRAY	1213	Cell array	Yes
	DIRECT RASTER DATA	1220	Sets the direct raster data.	Yes
	PACKING RASTER DATA	1221	Sets the packing raster data.	Yes
	PIXEL DATA	1222	Pixel data	Yes
	CONTINUATION DATA	12FF	Data continued from the previous block.	Yes

* Even yellow, magenta, and cyan pattern arrays are registered as black pattern arrays. The registered dots are all expressed in black.

◆ TIFF Tags

The meaning of the symbols in the table is as follows.

Yes: Indicates commands supported by the Printer.

Partially: Indicates the corresponding functions are partially supported by the Printer.

No: Indicates tags not supported by the Printer.



TIP

- ◇ The tags supported by the Printer are equivalent to TIFF Revision 4.0.
- ◇ When data larger than the spool buffer size is received, an error message is displayed on the panel. The data is disregarded.
- ◇ If the Printer receives any non-supported tags, it ignores them.

Command		Function	Supported
Name	Hexadecimal		
NewSubfileType	00FE	Specifies the type of image data.	Partially
SubfileType	00FF	Specifies the type of image data.	Partially
ImageWidth	0100	Specifies the number of pixels for each image line.	Yes
ImageLength	0101	Specifies the number of image lines.	Yes
BitsPerSample	0102	Specifies the number of bits for each sample.	Yes
Compression	0103	Specifies the compression format.	Yes
PhotometricInterpretation	0106	Specifies the interpretation method for the values in the bitmap.	Yes
FillOrder	010A	Specifies the format for storing pixel data in bytes.	Yes
StripOffsets	0111	Specifies the offset value for each strip.	Yes
Orientation	0112	Specifies the position of the image origin point, the pixel forward direction, and the line forward direction.	Yes
SamplesPerPixel	0115	Specifies the number of samples for each pixel.	Yes
RowsPerStrip	0116	Specifies the number of lines before each strip is compressed.	Yes
StripByteCounts	0117	Specifies the number of bytes after each strip is compressed.	Yes
MinSampleValue	0118	Specifies the minimum sample value.	Yes
MaxSampleValue	0119	Specifies the maximum sample value.	Yes
XResolution	011A	Specifies the number of pixels in each resolution unit in the line direction.	Yes
YResolution	011B	Specifies the number of pixels in each resolution unit in the row direction.	Yes
PlanerConfiguration	011C	Specifies the format for storing each pixel element.	Yes
XPosition	011E	Specifies the offset value for the image X direction.	Yes
YPosition	011F	Specifies the offset value for the image Y direction.	Yes
T4Options	0124	Specifies the option information for T4 compression.	Partially
ResolutionUnit	0128	Specifies the physical unit of resolution units in the X Resolution and Y Resolution tags.	Yes
Color Map	0140	Specifies the palette color table (RGB).	Yes

◆ CALS Format Record

The meaning of the symbols in the table is as follows.

Yes: Indicates records supported by the Printer.

No: Indicates records not supported by the Printer.



TIP

- ◇ Only the TYPE I format type is supported by the Printer. When TYPE II data is received, the data is disregarded.
- ◇ If the Printer receives any non-supported records, it ignores them.

Record	Function	Supported
rtype	Specifies the data type.	Yes
rorient	Specifies the rotation direction for the page.	Yes
rpelcnt	Specifies the number of dots in 1 line and the number of lines.	Yes
rdensty	Specifies the number of dots in each inch.	Yes

▼ Command Lists

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box Function

Chapter
5

Authentication Function

Chapter
6

Troubleshooting

Appendix

Command	Function	Default	Notes
ascii	Sets the file transfer type to ASCII.	—	
binary	Sets the file transfer type to binary. Be sure to set this binary command when transferring files.	Image	
bye	Ends the execution of the ftp command.	—	
cd	Changes the working directory.	—	Supported in anonymous ftp.
cdup	Moves the working directory to the parent directory.	—	
close	Cancels the connection with the Printer, and displays the ftp prompt.	—	
disconnect		—	
delete (file name)	Deletes unprocessed files already transferred to the Printer.	—	Not supported in anonymous ftp.
mdelete (file n)	Deletes multiple unprocessed files already transferred to the Printer.	—	
dir	Deletes spooled file information already transferred to the Printer.	—	
mdir		—	
ls		—	
mls		—	
get	Copies 1 file from the Printer to the local host.	—	Supported in anonymous ftp.
mget	Copies multiple files from the Printer to the local host.	—	
mode (mode name)	Sets the file transfer mode.	stream	
open (remote device)	Connects with the Printer. After executing the open command, enter the user name and password.	—	
put (file name)	Copies 1 file from the computer to the Printer.	—	Not supported in anonymous ftp.
mput (file name)	Copies 1 file or multiple files from the computer to the Printer.	—	
pwd	Displays the path name of the current directory. The directory path is always <i>/</i> .	—	
quit	Ends the execution of the ftp command.	—	
recv	Copies 1 file from the Printer to the local host.	—	Supported in anonymous ftp.
remotehelp (internal command)	Displays the help information for internal commands supported by the Printer's ftp server on the screen. (When internal commands are omitted, displays the internal command list.)	—	
send (file name)	Copies 1 file from the computer to the Printer.	—	Not supported in anonymous ftp.
struct (struct name)	Sets the file transfer structure.	file	
sunique	If a file with the same name as the transferred file already exists, it is stored in the Printer's spool with a different name.	—	Not supported in anonymous ftp.
type (type name)	Sets the file transfer type.	Image	
user (user name)	Logs in to the Printer's ftp server. After executing the user command, enter the user name and password.	—	



TIP

◇ Up to 10 users can be connected in 3 protocols: ftp (for data transfer), lpr (lpq, lprm), and xpt.

◆ Commands Supported by lpd

Up to 10 users can be connected at the same time with lpr, lpq, and lprm.

Command	Function
lpr	Copies a file from the computer to the Printer.
lpq	Outputs the Printer's spool data status to the computer.
lprm	Deletes an unprocessed file already transferred to the Printer.



TIP

◆ Up to 20 users can be connected in 3 protocols: ftp (for data transfer), lpr (lpq, lprm), and xpt.

◆ xpt (socket I/F)

With LP-2060 xpt, data from up to 20 users can be transferred.



TIP

◆ Up to 20 users can be connected in 3 protocols: ftp (for data transfer), lpr (lpq, lprm), and xpt.

▼ Command Lists

Chapter
1

Before Use

Chapter
2

Basic Operations

Chapter
3

Menu Functions

Chapter
4

Print Job Box
Function

Chapter
5

Authentication
Function

Chapter
6

Troubleshooting

Appendix