

Digital Multifunctional System

BP-1360M/BP-1250M

User's Manual Appendix



A manual describing the emulation mode, direct print, web applications, troubleshooting, etc.

- This manual may not be edited, modified or copied in whole or part without the written consent of the publisher.
- Parts of this manual is subject to change without prior notice.
- The screen shots and the illustrations in this manual are used as examples. They may differ from yours depending on the model, the software, or the OS.

Refer to User's Manual - Main Unit for trademarks and manual conventions.

2 Appendix

2.1 Emulation

When using the emulation mode, you can get the print results similar to those of other companies' printers.

Overview of Emulation Feature

This machine is compatible with following emulation mode.

Emulation mode	Printer to be emulated					
PCL	HP-LJ4200					
HP-GL	7586B or DJ750C Plus					
HP-GL/2	DJ750C Plus					

Changing the print language

This machine is compatible with multi-emulation. Due to this, you can switch the corresponding print language.

Changing the command

There are commands to change the corresponding print language.

Automatic change

The machine analyzes the data received by the host interface and automatically identifies the print language.

Protocol dependence

You can fix the print language for each protocol (USB, IPP, LPD, Port9100, WSD).

Log in to Administrator Mode in Internet Services, and set Print Mode for each protocol in [USB] or [Protocols] of the [Network] tab.

Print function

Emulation mode	N Pages	Form	Barcode
PCL	-	-	Yes
HP-GL, HP-GL/2	-	-	-

N Pages

2 pages are available.

Barcode

Barcode standards available for PCL are CODE39, CODE128, CODABAR, UPC, EAN, Postal barcode of Japan and QR code.

Output of Related List

Refer

• For details, refer to "Basic Operations" in User's Manual - Operations.

Font

Available font can be confirmed by executing [Print] for [Font List] or [PCL Font List] in 🚳 > [Device Status] > [Print Reports] > [Printer Reports].

Barcode

You can confirm the method to specify commands by executing [Print] in 🚳 > [Device Status] > [Print Reports] > [PCL Font List].

Associated Device Menu

Log in to Administrator Mode.

Emulation mode	[Port Settings]	[Allocate Memory]	[Delete Form]
PCL	Yes	-	-
HP-GL, HP-GL/2	Yes	Yes	-

Port Settings

Set in 🚳 > [Device] > [Network Settings] > [Port Settings].

• Enable port (USB/LPD/IPP/Port9100/WSD) Launch the port to be used in the emulation mode.

Allocate Memory

Set in 🚳 > [Device] > [App Settings] > [Print Settings] > [Allocate Memory].

Note

• If storage is attached, the settings cannot be changed.

Delete Form

Set the mode to delete forms in 🚳 > [Device] > [App Settings] > [Print Settings] > [Delete Form].

Emulation Mode

The unique settings for each emulation modes can be changed in 0 > [Device Status] > [Print Mode].

Note

- [Retrieve Programming], [Store/Delete Programming] and [Default Programming] are displayed on HP-GL/2.
- You can set these items also with Internet Services in the same procedure.

Retrieve Programming

Retrieve settings stored in the memory.

Programming

Enter the Item Number for the function in [Item Number] to display the current setting. Enter the new value in [New Value] and tap on [Save] to change the setting.

Refer

• Refer to "Items" (P.13) for Item Number.

Store/Delete Programming

Store the current Items details in [Custom Settings] and delete stored memory.

Default Programming

Set the default values.

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HP-GL, HP-GL/2 Emulation-specific Matters

Printable area

SEF



Paper size	Paper (1/72	length 200")		Coordinate value (1/7200")						
	X direction	Y direction	Margin		Printab	ole area	Top righ	t corner	Ma	rgin
	Length	Width	Bottom left X	Bottom left Y	Long side	Short side	Top right X	Top right Y	XR	YU
A3	119052	84168	1260	1260	116532	81648	117792	82908	1260	1260
A4	84168	59508	1260	1260	81648	56988	82908	58248	1260	1260
A5	59508	41940	1260	1260	56988	39420	58248	40680	1260	1260
JIS B4	103176	72828	1260	1260	100656	70308	101916	71568	1260	1260
JIS B5	72828	51588	1260	1260	70308	49068	71568	50328	1260	1260



Paper size	Paper (1/72	length 200")			Coordinate value (1/7200")					
	X direction	Y direction	Margin		Printable area		Top right corner		Margin	
	Length	Width	Bottom left X	Bottom left Y	Long side	Short side	Top right X	Top right Y	XR	YU
A3	84168	119052	1260	1260	81648	116532	82908	117792	1260	1260
A4	59508	84168	1260	1260	56988	81648	58248	82908	1260	1260
A5	41940	59508	1260	1260	39420	56988	40680	58248	1260	1260
JIS B4	72828	103176	1260	1260	70308	100656	71568	101916	1260	1260
JIS B5	51588	72828	1260	1260	49068	70308	50328	71568	1260	1260

Hard Clip

Area determined by coordinates is called Hard Clip area. Hard Clip area is determined by the printable area or paper size.

• When the size is A3 and the starting point is the bottom left



Standard

Printable area of this machine is the Hard Clip area.

Paper

Same size as the paper is the Hard Clip area.

Auto Layout

Printed area is automatically determined based on the specified items, such as the document size and paper size.

[Original Size]

Set to [Auto Detect] when using Auto Layout.

[Auto Layout]

Reduce/enlarge the document data to fit the paper size.

[Zoom]

You can enlarge/reduce the printed area to fit the drawn object area in the paper size.

[Zoom Mode]

[Paper Size]	Document size is determined based on the drawn object area. Sizes to be determined are A sizes (6 types from A0 through A5).
[Coordinate Area]	Document size is determined based on the starting point of the drawn object area.

[Area Determine Mode]

[Auto]	Selected automatically. The priority order is [PS] -> [IW] -> [IP] -> [Adapted].
[IW]	Area specified by the last IW command within the data is the object area.
[IP]	Area specified by all IP commands is the object area.
[Adapted]	Object area is determined automatically.
[PS]	Area including the area specified by the PS command in the beginning is the object area.

Note

• The object area is determined in [Adapted] without a command.

[Paper Margin]

You can specify the margin.

[Pen Attributes]

You can specify the setting for the pen to draw the boundary lines for the Hard Clip area. You can set 16 attributes from [Pen Attributes 0] to [Pen Attributes 15].

[Pen Width]	If reduced by the combination of [Original Size] and [Paper Size], the pen width is also reduced. Line width grows thicker from the center of the line. If the width is 0.0 mm, nothing will be drawn.
[Line End]	You can specify the end shape for the pen.
[Line Intersect]	 You can specify how pen lines are processed when connected. Note [None] has the shortest processing time and is suitable for checking. If symbols are specified by symbol mode commands, connection process is not performed. Symbol mode commands refer to HPGL commands that specify symbols. These settings are not valid for characters.
[Density]	You can specify the pen intensity.

Item combination examples in Auto Layout

■ [Zoom Mode]: [Paper Size], [Zoom]: ON

Image is reduced/enlarged within the printed area and printed.



■ [Zoom Mode]: [Paper Size], [Zoom]: OFF

Image is printed in the actual size.

Due to this, areas larger than the paper size are not printed.



[Zoom Mode]: [Coordinate Area], [Zoom]: ON

Image is reduced/enlarged within the printed area and printed.



■ [Zoom Mode]: [Coordinate Area], [Zoom]: OFF

Image is printed in the actual size.

Due to this, areas larger than the paper size are not printed.



How to determine the document size

- **1.** The largest value among the following values is added as the margin to the object area determined in [Area Determine Mode].
 - Character size specified within the page
 - Default character size
 - Half of specified pen width
- 2. "Object area determined in the area determination mode" + "added margin" "specified paper margin" will be the drawn object area.
- **3.** If [Zoom Mode] is [Paper Size], the document size is determined based on the drawn object area. If [Zoom Mode] is [Coordinate Area], the document size is determined based on the starting point of the drawn object area.

Determination method example

If [Auto Layout] = ON, [Original Size] = [Auto Detect], [Zoom Mode] = [Paper Size], [Area Determine Mode] = [IP] and [Paper Margin] = 10 mm, and [Pen Attributes] of [Pen Width] = 0.1 mm

```
IN;
IP-8399,-5938,8399,5938;
IW-8399,-5938,8399,5938;
PU;
SP1;
:
:
SP0;
```

Note

• There is no character size specification command, and area specified by [IP] and [IW] is A3.

- Determination method
- **1.** Areas "-8399, -5938, 8399, 5938" specified by IP commands are the object areas.
- 2. There is no character size specification command, and the pen width is 0.1 mm, so half of the A3 size default character size height (75 plotter unit) is added to the object area. Object area at this point: -8074,-6013,8474,6013
- **3.** Paper margin (10 mm) is removed from the object area. Object area at this point: -8474,-5613,8074,5613
- 4. Since the drawn object area (printed area) is greater than A4 and equal to or smaller than A3, the document size is A3.

How to determine the paper size

■ If [Original Size] is [Auto Detect] and [Paper Supply] is [Auto Select]

- If [Zoom Mode] is [Paper Size] and the same size paper as the document size is loaded in the tray, the paper size is the same as the document size.
- If [Zoom Mode] is [Coordinate Area], the paper size is the object area determined in the area determination mode.

Note

- If the same paper size is not available, the following size is selected.
 - Exceeding the maximum size: Maximum size
 - Under the minimum size: Minimum size
 - Between the minimum and maximum sizes: Fitting size

How to determine the reduction rate

■ If [Original Size] is [Auto Detect] and [Zoom Mode] is [Paper Size]

Reduction rate is determined by the drawn object area and [Paper Size]. Hard Clip area is [Paper].

- If Auto Layout is [Auto Layout], the document is placed at the center of the paper.
- If the starting point is the bottom left or center, the starting points of the document and paper are aligned.
- If the reduction rate is less than 22.5% (such as A0 -> A5), it will be the actual size.

■ If [Original Size] is [Auto Detect] and [Zoom Mode] is [Coordinate Area]

Reduction rate is determined by the starting point of the drawn object area and paper size. Hard Clip area is [Normal].

Paper		C	0		90°			
size	Minimu	Minimum value Maximum value		Minimu	m value	Maximum value		
	P2x - P1x	P2y - P1y	P2x - P1x	P2y - P1y	P2x - P1x	P2y - P1y	P2x - P1x	P2y - P1y
A3	7829	5485	73075	51200	5485	7829	51200	73075
A4	5485	3828	51200	35733	3828	5485	35733	51200
A5	3828	2648	35733	24720	2648	3828	24720	35733
JIS B4	6762	4723	63120	44088	4723	6762	44088	63120
JIS B5	4723	3297	44088	30773	3297	4723	30773	44088

Maximum scale value is 210.0%, and the minimum scale value is 22.5%.

Unit: Plotter unit

Items

In the table below, the item number "PCL" for PCL, and "HP" for HP-GL and HP-GL/2.

Note

• You can set the items also in Internet Services.

ltems	Item N	lumber	Specification value
	PCL	HP	
Document size	-	101	[0]: A0 [1]: A1 [2]: A2 [3]: A3 [4]: A4 [5]: A5 [10]: JIS B0 [11]: JIS B1 [12]: JIS B2 [13]: JIS B3 [14]: JIS B4 [15]: JIS B5 [99]: Auto [100]: Paper size
Paper size If "Paper supply tray" is "Auto" or "Tray 5 (bypass)"	-	102	[3]: A3 [4]: A4 [5]: A5 [14]: JIS B4 [15]: JIS B5 [99]: Auto [101]: A size

Items	Item N	lumber	Specification value
	PCL	HP	
Paper size If "Paper supply tray" is "Auto"	202	-	[3]: A3 [4]: A4 [5]: A5 [14]: JIS B4 [15]: JIS B5 [21]: 8.5 x 14" [22]: 8.5 x 13" [23]: 8.5 x 11" [24]: 11 x 17" [25]: User defined paper [30]: 8K
Paper size If "Paper supply tray" is "Bypass tray"	203	-	[3]: A3 [4]: A4 [5]: A5 [14]: JIS B4 [15]: JIS B5 [21]: 8.5 x 14" [22]: 8.5 x 13" [23]: 8.5 x 11" [24]: 11 x 17" [25]: User defined paper
Paper supply tray	201	103	 [0]: Auto [1]: Tray 1 [2]: Tray 2 [3]: Tray 3 [4]: Tray 4 [5]: Tray 5 (bypass) [6]: Tray 6 (high-capacity feeder) [7]: Tray 7 (high-capacity feeder) Note When this item is set to "Auto" and the paper of the same size is loaded in multiple trays in the same orientation, the system administrator sets the tray priority in [Priority] from the setting screen of each tray in S > [Device] > [Paper Tray Settings].
Coordinate rotation	-	104	[0]: 0 ° [1]: 90 °
Depth mode	-	105	[1]: Grey scale [2]: Black pen
Auto Layout	-	106	[0]: ON [1]: OFF
Palette priority specification	-	107	[0]: Command [1]: Panel
Number of outputs	212	-	 [1] to [250]: 1 to 250 Note If the client computer specifies the number of printed copies, the value is reflected and printed. After printing, the setting on the operation panel will also be this value. However, the number of copies specified by the lpd port does not change. [1] to [999]: 1 to 999

ltems	Item N	lumber	Specification value
	PCL	HP	
Ejected to	204	109	[0]: Top output tray [68]: Stacker [69]: High capacity stacker [80]: Finisher tray [81]: Finisher top tray
2 sided	-	110	[0]: None [1]: Opened horizontally [2]: Opened vertically
	206	-	[0]: OFF [1]: ON
Binding method if 2 sided	217	-	[0]: Long side binding [1]: Short side binding
Paper direction	205	-	[0]: Vertical [1]: Horizontal
Default font	207	-	 [0]: CG Times [1]: CG Times Italic [2]: CG Times Bold [3]: CG Times Italic Bold [4]: Univers Medium [5]: Univers Medium Italic [6]: Univers Bold [7]: Univers Bold Italic [8]: Univers Medium Condensed [9]: Univers Medium Condensed Italic [10]: Univers Medium Condensed Italic [11]: Univers Bold Condensed Italic [12]: Antique Olive [13]: Antique Olive Italic [14]: Antique Olive Bold [15]: CG Omega [16]: CG Omega Bold [18]: CG Omega Bold Italic [19]: Garamond Antiqua [20]: Garamond Kursiv [21]: Garamond Kursiv Halbfett [23]: Courier [24]: Courier Italic

Items	Item Number		Specification value	
	PCL	HP		
Default font	207	-	[25]: Courier Bold	
			[26]: Courier Bold Italic	
			[27]: Letter Gothic	
			[28]: Letter Gothic Italic	
			[29]: Letter Gotnic Bold	
			[30]: Albertus Medium [21]: Albertus Extra Pold	
			[31]: Albertus Extra Dolu [32]: Clarendon Condensed	
			[33]: Coronet	
			[34]: Marigold	
			[35]: Arial	
			[36]: Arial Italic	
			[37]: Arial Bold	
			[38]: Arial Bold Italic	
			[39]: Times New	
			[40]: Times New Italic	
			[41]: Times New Bold	
			[42]: Times New Bold Italic	
			[43]: Symbol	
			[44]: Wingdings	
			[45]: Line Printer	
			[46]: Times Roman [47]: Times Italia	
			[47]. Times Rold	
			[49]: Times Bold Italic	
			[50]: Helvetica	
			[51]: Helvetica Obligue	
			[52]: Helvetica Bold	
			[53]: Helvetica Bold Oblique	
			[54]: CourierPS	
			[55]: CourierPS Oblique	
			[56]: CourierPS Bold	
			[57]: CourierPS Bold Oblique	
			[58]: SymbolPS	
			[59]: Palatino Roman	
			[60]: Palatino Italic [61]: Palatino Pold	
			[62]: Palatino Bold Italic	
			[63]: ITC Bookman Light	
			[64]: ITC Bookman Light Italic	
			[65]: ITC Bookman Demi	
			[66]: ITC Bookman Demi Italic	
			[67]: Helvetica Narrow	
			[68]: Helvetica Narrow Oblique	
			[69]: Helvetica Narrow Bold	
			[70]: Helvetica Narrow Bold Oblique	
			[[71]: New Century Schoolbook Roman	
			[[72]: New Century Schoolbook Italic	
			[[/3]: New Century Schoolbook Bold	
			[[74]: New Century Schoolbook Bold Italic	
			[[75]: IL AVANT Garde BOOK	
			[70]. ITC Avant Garde Dook Oblique	
			[77]: ITC Avant Garde Demi Oblique	
			[79]: ITC Zanf Chancery Medium Italic	
			[80]: ITC Zapf Dingbats	

Items	Item Number		Specification value	
	PCL	HP		
Default symbol	208		[0]: Roman 8 [1]: ISO 8859-1 Latin 1 [2]: ISO 8859-2 Latin 2 [3]: ISO 8859-9 Latin 5 [4]: ISO 8859-9 Latin 6 [5]: PC-8 [6]: PC-8 DN [7]: PC-775 [8]: PC-850 [9]: PC-852 [10]: PC-1004 (OS/2) [11]: PC Turkish [12]: Windows 3.1 Latin 1 [13]: Windows 3.1 Latin 2 [14]: Windows 3.1 Latin 5 [15]: DeskTop [16]: PS Text [17]: MC Text [18]: Microsoft Publishing [19]: Math 8 [20]: PS Math [21]: Pi Font [22]: Legal [23]: ISO 4 United Kingdom [24]: ISO 6 ASCII [25]: ISO 11 Swedish: names [26]: ISO 15 Italian [27]: ISO 17 Spanish [28]: ISO 21 German [29]: ISO 60 Norwegian v1 [30]: ISO 69 French [31]: Windows 3.0 Latin 1 [32]: Windows Baltic [33]: Symbol [34]: Wingdings [35]: UCS-2	
Font size	209	-	[400] to [5000]: 4.00 to 50.00 points	
Font pitch size	210	-	[600] to [2400]: 6.00 to 24.00 points	
Number of font lines	211	-	[5] to [128]: 5 to 128 lines	
Vertical position calibration	-	113	[0]: None [1] to [500]: - 250 to + 250 mm	
Horizontal position calibration	-	114	Note • You can specify the print position (or Hard Clip area).	
Image enhancement	213	163	[0]: OFF [1]: ON	
HP-GL mode	-	150	 [0]: HP-GL [1]: HP-GL/2 Note This affects IW, OW, and UC commands. If printing HP-GL/2 commands not including BP commands, specify "HPGL/2". 	

ltems	Item N	lumber	Specification value	
	PCL	HP		
Hard Clip	-	151	[0]: Standard [2]: Paper	
Ejection command	-	152 (SP)	[0]: OFF [1]: ON	
	-	153 (SP0)	Note • You can specify the command to indicate the end of	
	-	154 (NR)	drawing.Drawing is ended when the command specified here is	
	-	155 (FR)	 received, and paper is ejected. If multiple commands are specified, drawing is ended and paper is ejected when any of the commands is 	
	-	156 (PG)	received.	
	-	157 (AF)		
	-	158 (AH)		
Scale	-	159	[0]: OFF [1]: ON	
Scale mode	-	160	[0]: Paper size [1]: Object area	
Area determination mode	-	161	[0]: Auto [1]: PS [2]: IW [3]: IP [4]: Adapted	
Paper margin	-	162	[0] to [99]: 0 to 99 mm	
Stapling	-	164	 [0]: None [1]: 1 location on top left [2]: 2 locations on top [3]: 1 location on top right [4]: 2 locations on left [5]: 2 locations on right [6]: 1 location at bottom left [7]: 2 locations at bottom [8]: 1 location at bottom right 	
Bypass paper supply pause	-	165	[0]: None [1]: Yes	
Punch	-	166	[0]: None [1]: Top [2]: Bottom [3]: Left [4]: Right	
Number of punched holes	-	167	[0]: 2 holes [1]: 3 holes [2]: 4 holes	

Items	Item Number		Specification value	
	PCL	HP		
Folding/original rotation	-	168	 [0]: None [1]: Z fold (right stitch/upper stitch) [2]: Z fold (left stitch/bottom stitch) [3]: Without Z fold (180° rotation) [4]: Z fold (right stitch/upper stitch/180° rotation) [5]: Z fold (left stitch/bottom stitch/180° rotation) 	
HexDump	214	-	[0]: OFF [1]: ON	
Grey print	215	-	[0]: OFF [1]: ON	
Line end process	218	-	 [0]: OFF [1]: Add LF at the end [2]: Add CR at the beginning [3]: CR-xx Note With "CR-xx", add LF at the end when CR and add CR at the beginning when LF/FF. 	
Default value for user defined paper size	219 (Short side)	-	[0] to [9999]: 0 to 999.9 mm	
	220 (Long side)	-	[0] to [9999]: 0 to 999.9 mm	
Effective number of outputs	221	115	[0]: Protocol specification [1]: Panel [2]: Command	
Applicable product	-	169	[0]: HP750C [1]: FX4036	
Pen width	-	800 to 815	Item Number for No.00 is 800. [0] to [255]: 0 to 25.5 mm	
Pen end shape	-	850 to 865	Item Number for No.00 is 850. [0]: Cut [1]: Round [2]: Rectangle	

Items	Item Number		Specification value
	PCL	HP	
Pen connection shape	-	900 to 915	Item Number for No.00 is 900. [0]: None [1]: Cross [2]: Round [3]: Cut
Pen intensity	-	950 to 965	Item Number for No.00 is 950. [0] to [100]: 0 to 100 (intensity)

2.2 Direct Print

This function is used to print files directly by using lpr commands, etc. instead of a printer driver. The machine supports PDF direct print.

Note

- In order to use Adobe genuine PDF direct print, you need the Adobe[®] PostScript[®] 3TM kit.
- When using lpr commands, set <a>[Device] [Network Settings]
 [Port Settings]
 [LPD] [Port Status]

Direct Print Mode Setting

The unique settings for each direct print modes can be changed in 0 > [Device Status] > [Print Mode].

Note

• You can follow the same procedure for the PDF emulation mode with Internet Services.

Programming

Enter the Item Number for the function in [Item Number] to display the current setting. Enter the new value in [New Value] and tap on [Save] to change the setting.

Refer

• Refer to "Items" (P.21) for Item Number.

Password

If you set up a password, you can print PDF files secured with a password.

Note

- The password should be 32 or fewer alphanumerics or symbols.
- Depending on the PDF file security setting, the file may not be printable.

Items

Items	Item Number	Specification value
Number of outputs	401	 [1] to [999]: 1 to 999 Note If printing using lpr commands, the specification of the number of outputs is made with lpr commands. Due to this, this setting will be invalid.
2 sided	402	[0]: None[1]: Long side binding[2]: Short side binding
Print mode	403	[0]: Standard [1]: High speed [2]: High resolution
Sort	404	Sort multiple copies by copy (1, 2, 3 1, 2, 3). [0]: None [1]: Yes
Layout Note • Setting of this item is enabled only if "PDF Bridge" is specified in "Print process mode".	405	 [0]: Auto scale [1]: Catalog (bookbinding) [2]: 2 pages [3]: 4 pages [4]: 100% (scale) Note "Catalog (bookbinding)" is enabled for PDF direct print. Catalog (bookbinding) print is not valid with some page structures. In this case, it is printed in "Auto scale".
Paper size	406	[0]: Auto [1]: A4
Print process mode Note • This is displayed when Adobe [®] PostScript [®] 3 TM kit is equipped.	408	 [0]: PDF Bridge [1]: PS Note "Layout" setting becomes invalid if "PS" is specified.

2.3 Web Applications

This function allows you to access Web servers via networks from the browser included with this machine in order to store or display data.

- Access an external service and display an external service screen linked with this machine
- Store a scanned document in a folder on a Web application linked with this machine
- Print a file stored in an external server



Server Setup

- **1.** Log in to Administrator Mode.

2	Web Applications Setup		
Log Out	Server Setup	>	
Interrupt	Other Settings	>	
鐐 〉			
dobs			
Pause			

3. Select the server number to register.

ß	✓ Server Setup	
Log Out	Web Application Server 1 (Not Set)	
Interrupt	Web Application Server 2 (Not Set)	
錄 〉	Web Application Server 3 (Not Set)	
۲(I)	Web Application Server 4 (Not Set)	
Jobs	Web Application Server 5 (Not Set)	
Pause	Web Application Server 6 (Not Set)	

4. Enter the server URL and tap on [OK].

Note

• When connecting by specifying the Web browser version for Web Applications, specify the version between the protocol type (http, https, etc.) and the colon. For example, when connecting with V5, enter as the following.

"http-v5://www.example.com"

• If you connect by specifying URL as the Web browser version, the setting for [Web Applications Version] will be invalid.

5. Specify the following items as necessary.

2	X Web Application Server 1	
Log Out	Server Name Web server test	Delete Settings
Interrupt	URL https://www.example.com	
錄 〉	Description (Not Set)	
ננן	Use User ID Yes	
Jobs	User ID (Not Set)	
Pause	Password (Not Set)	

Item	Description
[Server Name]	Specify the displayed name for the connection destination.
[URL]	Server URL is displayed.
[Description]	Specify the description for the connection destination.
[Use User ID]	 Specify whether or not to use user ID to access external services. Note Even if you specify [No], user ID and password may be required at the time of access.
	 If [Remote] is set to > [Device] > [Authentication/Accounting] > [Authentication/Security Settings] > [Authentication] > [Authentication/Accounting Settings], the machine accesses to external services using user information authenticated with the machine after selecting [No]. You can specify whether or not to display authentication screen when accessing an external service in [Device] > [App Settings] > [Web
	Applications Setup] > [Other Settings] > [When Sending User Details].

ltem	Description
[User ID]	 Specify the user ID for authentication in external services. Note Depending on the external service, the setting may be invalid even if you specify [User ID]. Check the setting for the used external service.
[Password]	Specify the password for authentication.
[Notify Device/ Authentication Info]	You can specify whether or not to notify the information to identify this machine and the certificate information of the user to the connection destination every time you connect to an external service. Note • Whether or not such information will be used is determined by the connecting external service, so you normally would not perform the setting on the operation panel.
[Notify Permission Information]	You can specify whether or not to notify the authorization information of the user to the connection destination every time you connect to an external service.
[Functional Code]	You can specify this as necessary when using the linked service with another device.

Server Certificate Verification

Configure the settings to verify the server certificate when connecting with an external server (ASP) in the same manner as the Windows web browser to prevent phishing attacks.

To verify a server certificate, the root certificate (CA certificate) for the root certificate agency issuing the server certificate is used.

Note

- CA certificate files are compatible with the following formats.
 - DER encoded binary X.509 format (.CER)
 - Base64 encoded X.509 format (.CER)
 - Cryptographic Message Syntax Standard PKCS #7 certificate format (.P7B)

2.4 Encryption and Signature Function

Certificate

A certificate is required to use the encryption and signature functions. To create/delete, import/export, or enable a certificate, use Internet Services.

Refer

• For details, refer to Internet Services help.

2.5 Folding Position Adjustment

Confirm the printed sample, measure the misalignment between the folding and staple. Enter the misalignment value by referring to the image on the screen and the folding position is adjusted.

How to Enter the Misalignment

Fold Position

• If the page with the line is longer



Select [Long at Left] and enter the amount of misalignment.

Staple Position

• If the page with the line has staples on it



Select [Left Staple] and enter the amount of misalignment.

• If the page without the line ----- is longer



Select [Long at Right] and enter the amount of misalignment.

• If the page without the line ----- has staples on it



Select [Right Staple] and enter the amount of misalignment.

Crease Position When the Crease/Two-Sided Trimmer is installed

For a saddle stitch/bi-fold job, make a crease on paper sheets prior to folding them to mitigate cracking of toner that can occur along the crease.

• If the page with the line **.....** has a crease on it



Select [Long at Left] and enter the amount of misalignment.

 If the page without the line ----- has a crease on it



Select [Long at Right] and enter the amount of misalignment.

How to Fold the Paper

Fold the paper along each crease.

Pinch the center of the crease and fold it, then apply force evenly to the left and right to fold it.



Note

- Fold the paper so that the creases are even.
 - If the crease is folded in an uneven position to the left or right, the folds are misaligned.
 - The folds are more misaligned for thinner paper.
 - It is recommended to use uncoated paper of 200 g/m² or more to prevent the folds from slipping, such as for the accordion fold. Coated paper and uncoated paper of less than 200 g/m² are more likely to cause misalignment of the fold stacks.

When you fold the paper inclined to the right or left



How to Measure the Misalignment

Fold the printed sample.



Note

- The sample is different depending on the type of folding.
- Fold the sample and align the positions of printed line ----- and the counter part of the image ----on the screen, and measure the misalignment value among front edge, mountain part and the
 rear edge of the folded paper.

2. Enter the misalignment value of "+" and "-" (depending on the misalignment direction) by referring to the image on the screen and the mountain folding position is adjusted.

Enter a "+" measurement value.



Enter a "-" measurement value.

A	When shorter than the edge of the crease 2 (same as the image on the screen): enter "+" value When longer than the edge of the crease 2 (reverse to the image on the screen): enter "-" value
В	When longer than the edge of the crease 3 (same as the image on the screen): enter "+" value When shorter than the edge of the crease 3 (reverse to the image on the screen): enter "-" value
С	When shorter than the edge of the crease 2 (same as the image on the screen): enter "+" value When longer than the edge of the crease 2 (reverse to the image on the screen): enter "-" value
D	When shorter than the edge of the crease 3 (same as the image on the screen): enter "+" value When longer than the edge of the crease 3 (reverse to the image on the screen): enter "-" value
E	When shorter than the edge of the crease 4 (same as the image on the screen): enter "+" value When longer than the edge of the crease 4 (reverse to the image on the screen): enter "-" value

How to Adjust the Folding Position

Here is the description using Z fold as an example.

If you follow the procedure, the folding position is adjusted to the finish shown following. (for A3)

- A=210 mm

B=0 mm



Standard Z fold ("A" Length: 210 mm, "B" Length: 0 mm)

When Adjusting the Fold to the Any Length

You need to enter the value calculated based on measured value and the target value.

The calculating method is the following.

Value to enter (A) = 210 + ("measured value" - "target value")

Value to enter (B) = "measured value" - "target value"

For example, when adjusting as the shown below, calculate as the following.

Target value ("A" Length: 206 mm, "B" Length: 2 mm)





Measured value ("A" Length: 214 mm, "B" Length: 6 mm)





Calculation formula

Value to enter (A) = 210 + ("214 (measured value)" - "206 (target value)") = "218" Value to enter (B) = "6 (measured value)" - "2 (target value)" = "4"

Note

• The target value A&B can be set within the following range.

Target value	C Fold	Z Fold	Z Fold Half Sheet
A	0 to 2 mm	0 to 2 mm	(Paper length/2 - 5) mm to (Paper length/2) mm
В	0 to 8 mm	0 to 2 mm	0 to 2 mm

2.6 Troubleshooting

Machine Trouble

Symptom	Cause/Remedy
The machine is not powered on.	The power cord may have been unplugged or may not be firmly plugged in. Switch the machine power off, and then reconnect the power cord to the power outlet and the machine. Then switch the machine power on.
	Connect the machine to a power outlet that supplies the proper rated voltage or current.
The display is blank.	The machine may be in the Power Saver Mode. Press the <power <br="">Power Saver> button on the Control Panel to exit Power Saver Mode.</power>
The printer makes an odd	Install the printer on a level, sturdy surface.
noise.	Push the trays firmly into the machine.
	There may be a foreign object inside the machine. Switch the machine power off, and then remove the foreign object inside the machine. If the object cannot be removed without dismantling the machine, call for service.
Condensation has formed in the machine.	On the control panel, set the Sleep Mode trigger time to more than 60 minutes, and let the machine stand with its power on for 60 minutes. Before using the machine, make sure that no water droplets remain inside the machine (rollers, metal parts, etc.).
The machine does not switch to the Power Saver Mode.	 The machine does not enter the Low Power Mode or the Sleep Mode in the following cases to inform users on what is happening to the machine and provide its performance. When the user is operating the Control Panel When a message indicating to replace any one of the consumables is displayed When the machine requires user operation for paper jams or open covers When an error occurs due to machine failure

Image Quality Trouble

Symptom	Cause/Remedy	
Output is too light (faded or unclear).	The paper is not appropriate for the machine. Confirm the paper tray setting and load appropriate paper.	
	The paper is damp. Replace the paper.	
	Change the paper type setting and try printing again.	
Printer	No toner may be left in the toner cartridge. Confirm the remaining toner quantity, and replace the toner cartridge with a new one.	
	Execute calibration in the print server if printing from it.	
	• For calibration, refer to the manual that came with the print server.	
	A drum cartridge or the fusing unit is damaged or has deteriorated. Depending on its condition, the drum cartridge or fusing unit may need replacement. Call for service.	
	A developing unit has deteriorated. Log in to Administrator Mode and	
	perform 🔯 > [Device] > [Maintenance] > [Clean Toner]. If it is not improved, replace a developing unit with new one. Call for service.	
	 Refer For logging in to Administrator Mode, refer to "Logging in to Authentication Mode" in User's Manual - Operations. 	
Black spots or black lines	The paper path may not be clean. Print a couple of sheets or so.	
appear on output. Equally spaced smears appear on output.	The fusing unit may not be clean. Clean the dirt on the fusing unit in 🚳 > [Device] > [Maintenance] > [Clean Fusing Unit].	
Printer	A drum cartridge or the fusing unit is damaged or has deteriorated. Depending on its condition, the drum cartridge or fusing unit may need replacement. Call for service.	
Frinter		
Printer		

Symptom	Cause/Remedy	
Printing can be rubbed off with your finger.	The paper type of the selected paper tray is not appropriate. Change the paper type setting and try printing again.	
Poner is not fused to the paper. Output is smudged with	Some special types of paper cannot be fused. Replace with the appropriate paper.	
toner.	The paper is damp. Replace the paper.	
Printer	The fusing unit is damaged or has deteriorated. Depending on its condition, the fusing unit may need replacement. Call for service.	
The whole page is printed black.	A drum cartridge is damaged or has deteriorated. Depending on its condition, the drum cartridge may need replacement. Call for service.	
	There may be something wrong with the high-voltage power supply. Call for service.	
Output is blank.	Multiple sheets were fed at once. Fan the paper well and reload it in the tray.	
	A drum cartridge is damaged or has deteriorated. Depending on its condition, the drum cartridge may need replacement. Call for service.	
	There may be something wrong with the high-voltage power supply. Call for service.	

Symptom	Cause/Remedy
Output is partially	The paper is not appropriate for the machine. Load appropriate paper.
blanked-out. White streaks appear on output.	The paper is damp. Replace the paper.
	The LED printheads inside the machine may be dirty. Clean the LED printheads.
Printer	No toner may be left in the toner cartridge. Confirm the remaining toner quantity, and replace the toner cartridge with a new one.
Finter	A drum cartridge is not installed correctly. Install the drum cartridge correctly.
	A drum cartridge or the fusing unit is damaged or has deteriorated. Depending on its condition, the drum cartridge or fusing unit may need replacement. Call for service.
	A developing unit has deteriorated. Log in to Administrator Mode and
	perform 🔯 > [Device] > [Maintenance] > [Clean Toner]. If it is not improved, replace a developing unit with new one. Call for service.
	Refer
	 For logging in to Administrator Mode, refer to "Logging in to Authentication Mode" in User's Manual - Operations.
White patches appear on output. Images are partially blanked-out. Toner is scattered around images. Images are bluish.	Change the paper type setting and try printing again.
Text is smeared.	The paper is not appropriate for the machine. Load appropriate paper.
Printer Printer Printer Printer	The paper is damp. Replace the paper.

Symptom	Cause/Remedy
Text is garbled. Printed output is not the same as the original data displayed on the screen. $\begin{split} & \mu \hat{E} \hat{A}^{\mu} \hat{I} \hat{B} W^{\mu} \\ & \hat{E}^{\mu} \hat{A} \hat{O} U \\ & \dot{P}^{\mu} \gg^{\mu} \hat{O}_{1} \hat{E} \\ ,^{a} \tilde{S} - \Box^{2}, \ddot{U}, \cdot \\ & i i i i i i \pi^{3} \mu \hat{I} \cdot 1_{2} \cdot \ddot{U} \end{split}$	The machine is set to substitute TrueType fonts with the printer fonts. Set the printing method of TrueType fonts to [Always Use TrueType Fonts] under [Specify Font] on the [Advanced] tab of your printer driver.
Images are skewed.	The paper guides are not adjusted to the correct positions. Adjust the paper guides to the correct positions.
There is vertical uneven density against paper feed direction. Printer Printer Printer Printer	 Log in to Administrator Mode and adjust the uneven density in 2 > [Device] > [Maintenance] > [Image Quality] > [Density Uniformity Adjustment]. Refer For logging in to Administrator Mode, refer to "Logging in to Authentication Mode" in User's Manual - Operations.
Print quality on postcards or envelopes is poor.	Unsupported postcards or envelopes are loaded in the machine. Load appropriate paper.
	Check whether the paper type setting on the printer driver properties screen or Control Panel is configured correctly.

Tray and Paper Feed Problems

Symptom	Cause/Remedy
Paper does not feed properly. Paper jams occur. Multiple sheets feed at once. Paper feeds skewed. Output is wrinkled.	Load the paper correctly. Before loading heavy media, such as labels or postcards, or envelopes, fan them well to allow air to enter between each sheet.
	The paper is damp. Replace the paper.
	Load appropriate paper. Paper may still wrinkle depending on its type and condition.
	Push the trays firmly into the machine.
	Install the printer on a level, sturdy surface.
	Adjust the paper guides to the correct positions.
	Do not add paper to a paper tray that still contains paper. Fan the paper loaded in the tray well and reload it into the tray. Add paper to the tray only when the tray is out of paper.
The machine does not correctly select a paper tray.	If the paper guides are not positioned correctly, the machine may not correctly detect the size of the paper loaded. Adjust the paper guides to the correct positions.
	Check whether the tray, paper size and paper type settings on the printer driver properties screen and Control Panel are configured correctly.
The paper is dogeared.	 The paper is dog-eared if it is warped (curled). If the following does not solve the problem, replace the paper. Flatten the paper to correct the warped page. Turn the paper over. If Tray 1, 2, 3 or 4 has been used, use the Bypass Tray instead of it.
The machine does not feed paper from the Bypass Tray.	[Automatically Select] is selected for the [Paper Tray] setting on the [Tray / Output] tab of the printer driver. Select [Tray 5 (Bypass)] or set the Bypass Tray for auto tray selection when [Automatically Select] is specified.
Lead edge of paper is folded over when the paper is fed from the Bypass Tray.	The paper is damp. Replace the paper. Reduce the paper loaded in the Bypass Tray to 30 sheets or less. Change the paper loading orientation. Feed paper from Paper Tray 1, 2, 3 or 4.

Trouble during Copying

Symptom	Cause/Remedy
The document is not correctly fed from the Document Feeder.	Check the minimum size of document that can be loaded on the Document Feeder and load appropriately sized documents.
	Do not feed irregularly sized documents, business cards, transparencies, or thin documents from the Document Feeder. In addition, do not feed documents with sticky tags, paper clips, adhesive tape, or staples.
	Adjust the document guides correctly to the document.
	When loading documents of mixed sizes, configure settings in [Mixed Size Originals]. Otherwise, a paper jam will occur. Set [Mixed Size Originals] to [On].
The copy is dirty.	Clean the document cover, document glass, film, or scanner glass.
	If the document is highly transparent, such as transparencies, place a white sheet of paper on top of the document when scanning.
	If the document is colored, rough, or a blueprint, the paper's background color is copied. Adjust the density or image quality, or specify to suppress the background when copying.
	Glossy printing paper easily sticks to the document glass, and shadows are sometimes copied, soiling the image. Place a transparent film such as a transparency, under the document when copying.
The copy is too dark or too light.	Copy black text. If you feel the printout is too light, select [Text] for [Original Type].
Part of the image is	If the paper is damp, replace the paper.
missing on the copy.	Remove folded or wrinkled paper from the tray or replace the paper.
	If the document is pasted or folded, the pasted or folded section may not be laying flat on the document glass. Place a stack of white sheets on top of the document to flatten the document against the document glass.
The copy has a stripe pattern.	Stripes may be printed on the enlarged copies depending on the ratio. Adjust the copy magnification ratio.
The image is not copied to	Clean the document cover or document glass.
the desired size.	If the document is highly transparent, such as transparencies, place a white sheet of paper on top of the document when scanning.
	Load the document correctly.
	The document is a non-standard size Enter the document size before copying.

Trouble during Printing

Symptom	Cause/Remedy
The Note on status display lamp is blinking.	Check the error message displayed in the Control Panel and take action to resolve the error.
Unable to print.	Check whether the machine's IP address is set correctly.
	Check the data-reception control setting.
	The print data size transmitted at one time may have exceeded the upper limit of the receivable size of the machine. This can occur when the receiving buffer size setting is configured to [Spool to Memory]. Divide the print data into the size smaller than the maximum receivable size of the machine. If there are multiple pieces of print data, reduce the number of files to print at one time before printing.
Printing takes too much time.	The receiving buffer capacity may be insufficient. When printing high resolution documents, reduce the memory size of unused items in [Allocate Memory] on the Control Panel to increase the receiving buffer capacity. Increasing the receiving buffer capacity may improve the print processing speed. Adjust the receiving buffer capacity according to the print data capacity. Also, disabling an unused port and assigning the memory for other uses is recommended.
	The printing time may be shortened by changing the [Image Quality] setting on the [Image Options] tab of your printer driver to [Standard].
	Printing may take time depending on the printing method of TrueType fonts. Set the printing method of TrueType fonts under [Specify Font] on the [Advanced] tab of your printer driver.
	The printing speed might be lower depending on the paper type such as Heavyweight Paper or Coated Paper. Also, if the machine internal temperature exceeds a certain level during continuous operation, the machine lowers the print speed. If operation is still continued or the internal temperature rises further, the machine stops operation due to the error. In that case, switch the machine power off, wait for a while until the printer's internal temperature drops, and then switch the power on again.
[Printing.] is displayed even though no print job is directed (when using the USB interface).	If you have switched on the computer power after switching on the machine power, cancel printing.
Top section of printed	Adjust the paper guides to the correct positions.
document is missing. Images are not printed at desired positions.	Check whether the paper margin setting is correct with your printer driver.
	Adjust the print position in 🔯 > [Device] > [Maintenance] > [Image Quality] > [Adjust Alignment].

Trouble during Scanning

Symptom	Cause/Remedy
Operation terminates during scanning.	The file is too large in size. Lower the resolution, and import it again.
A Transmission Report - Job Undelivered is output.	Check the "Transmission Results" in the Transmission Report - Job Undelivered and take an appropriate action. If an error code is displayed, refer to <i>Information for error codes</i> to take action to resolve the error.
Unable to open the multi- page TIFF files or only the first page is displayed.	Multi-page TIFF files are formed by scanning multiple page documents. Install a TIFF Viewer compatible with multi-page TIFF.
Unable to open files though color documents have been scanned.	If the files are saved in TIFF format, they can be opened using TIFF Viewer. If you can view PDF in your environment, save the files in PDF format.
	Since files retrieved from Internet Services are converted into TIFF format, they can be opened using TIFF Viewer. If you can view PDF in your environment, save the files in PDF format.
Unable to send data over	Specify [Server] correctly.
the network.	Specify [Save Location] correctly.
	When [SMB] is selected, correctly specify [Share Name].
	The login name is not entered correctly. Check the login name you enter.
	The password is not entered correctly. Check the password you enter.
	The time set on the machine does not agree with that of Windows, when transmission is performed to Windows OS. Synchronize the time settings of the machine and Windows.
	On Windows OS, SMB transmission is attempted by users who do not set a password. Follow the steps below to change the settings of network access.
	 Start Windows, and click [Control Panel] > [System and Security] > [Administrative Tools], then double-click [Local Security Policy].
	2. Click [Security Settings] > [Local Policies], then double-click [Security Options]
	 Change [Account: Limit local account use of blank passwords to console logon only] to [Disabled].
	The root of the DFS name space specified for SMB transmission is comprised of more than three characters. Specify a DFS name space with a root comprised of less than four characters.
	The access right to the specified storage location is not set correctly. Set the access right to the specified storage location correctly so that you can read and write the files and folders.
	The SMB port number is blocked. Check the destination server, the router between the MFD and the server, virus scanning software on the destination server, and firewall software to confirm whether the SMB port is blocked or not.
Black-and-white gradation is not reproduced as desired.	Set [Color Scanning] to [Grayscale] instead of [Black & White].

2.7 Setting Restore Tool

This function is used to backup setting data, etc. in computers connected through networks in case data is lost due to the machine's storage malfunction.

Download the setting restore tool from our official website.

https://global.sharp/restricted/products/copier/downloads/select_us_driver.html

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2.9 Job History

- The page count obtained in the job history and the meters and counters on the machine may not match. Use the acquired data as a guide.
- The job history may be lost due to troubles of the machine or due to storage replacement or initialization. The lost job history cannot be restored.
- If the number of job histories exceeds the default number, old histories will be deleted. To prevent job history from being missed, shorten the collection interval.





SIQA_sheet_A3_simplex

SIQA_sheet_A3_simplex





SIQA_sheet_A3_duplex



SIQA_sheet_A3_duplex



SIQA_sheet_11x17_simplex

SIQA_sheet_11x17_simplex



SIQA_sheet_11x17_duplex



SIQA_sheet_11x17_duplex



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