SII

MP-A40 Series
Printer Driver
User's Guide

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Introduction

This manual describes the printer driver for the MP-A40 series (hereinafter referred to as "printer driver") provided by Seiko Instruments Inc.

This manual is basically written on the basis of the following conditions:

- Screenshots and display layouts of Windows 10 (or 11)
- Operating instructions with a mouse and a keyboard

Target Printers

This section lists the printers (products) supported by the printer driver.

- MP-A40 series

Terms

This section describes terms used in this manual.

Definition	Description
Tool	Various tools which can be started by the printer driver.
Printer name	Friendly name which is displayed in the Printer folder and can be changed by users.
Driver name	Unique model name for identifying the printer driver.
SDK	Dynamic link library (DLL) for application development provided with the printer driver, designed to directly communicate with a printer to control it.
Printer command	Instruction to control the printer, described in "MP-A40 SERIES THERMAL PRINTER TECHNICAL REFERENCE".
Test Print command	Instruction to execute the test print in the printer driver. Various commands which are entered in the [Command List] of [Test Print] in the tool panel.
Memory switch	Feature for the [Function Setting] described in "MP-A40 SERIES Thermal Printer USER'S GUIDE".

Definition	Description
NV image	Image data that is registered in the NV memory (non-volatile memory) in the printer.
IPD*1 font	Generic name of the following fonts specific to the printer driver. ・ Device font ・ Barcode font ・ 2D-Barcode font ・ Control font ・ ControlA font
Special font	Generic name of the following fonts in the IPD font, which are used to output the Printer command. ・ Barcode font ・ 2D-Barcode font ・ Control font ・ ControlA font
Maintenance counter	Maintenance counter value which can be retrieved by the Printer command.
Printer status	Response retrieved by the Printer command "Automatic Status Back Enable/Disable". For details of response, see "SII Printer Setting Utility for Windows User's Guide".
Dot	A unit that configures print. Printer prints 1 mm per 8 dots.

*1: Integrated Printer Driver (hereinafter called IPD)

Notations

In this manual, the following OS-dependent contents are defined as common names.

Printer folder

The "Printer folder" described in this manual means the folder displayed by one of the following operations.

[Devices and Printers] folder displayed by selecting [Control Panel] => [Hardware and Sound]

Print Server Properties

The "Print Server Properties" described in this manual means the properties displayed by one of the following operations.

[Print Server Properties] displayed by clicking any printer icon in the Printer folder and selecting [Print Server Properties] displayed on the toolbar at the top of the Printer folder.

Root folder

The "Root folder" described in this manual means one of the following folders.

<Drive on which Windows is installed>:\Users\<User name>\Documents\<Printer name (SII MP-A40 etc.)>\

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Chapter 1 Overview

1.1 Introduction

This chapter describes the overview of the printer driver.

1.2 Operating Environment

For the operating systems and supported interfaces, see "SII Software Package for Windows Installation Guide".

1.3 Use Conditions of Memory Switch

Set the Memory switch as shown in the following settings.

The Memory switch can be changed by the tool. For details, see "SII Printer Setting Utility for Windows User's Guide".

MS	Item	Settings
MS1–2	Mark Mode Selection (Mark Mode)	0: Enable / 1: Disable*1
MS1–3 to MS1–5	Command System Selection (Command System)	000B: ESC/POS
MS2–2	Realtime Command Selection (Realtime Command)	0: Enable
MS9–1	Automatic Status Response Selection (Auto Status Back)	0: Enable / 1: Disable*2
MS9–2	Initialized Response Selection (Init. Response)	0: Enable*2 *3
MS13–1	Kanji Code System Selection (Kanji Code)	0: SJIS code (Shift-JIS Code)*4

*1: Set this setting to "Enable" when executing marked paper form feed. Otherwise, set this setting to "Disable".

*2: Use this setting with "Enable" usually. However, when [Enable bidirectional support] check box described in "4.3 Ports" is unchecked, set this setting to "Disable".

*3: Required when getting [Initialization Response] in the SDK.

*4: Required when using HTML data in the SDK.

Caution

◆ When other than the above Settings are used, it may prevent the printer driver from working properly.

1.4 Limitation

The printer driver has the following limitations.

- Abnormal printing in sleep mode or hibernation mode, which is a part of the Windows standard function, is not guaranteed including garbled characters.
- When the setting of dedicated print processor (SII Print Processor) including FILE output is disabled, all reduction function is disabled.
- When the printer is disabled in the Printer command "Peripheral Equipment Selection", all the functions in the printer driver cannot be used.
- When the same IP address is specified with more than 1 computer for installing the printer driver when using TCP/IP connection, the tool and the SDK are not available with more than 1 computer at 1 time.
  Also, when the printing is canceled, it may not work properly.
- When printer is in unconnected status at print suspension or in data unaccepting status, the printer resetting may not be correctly completed and garble character may occur.
- The status information of printer information structure (PRINTER_INFO) is not reflected.

Chapter 2 Installation

For the installation, see "SII Software Package for Windows Installation Guide".

Chapter 3 Printing Preferences

This chapter describes the printing preferences.

Various printing preferences can be displayed, reviewed, and changed in the [Printing Preferences] dialog.

The following setting windows are displayed in the [Printing Preferences] dialog.

- Layout : Sets the print direction, page order, and page format.
- Paper/Quality : Sets the print mode.
- Document Settings : Sets the print format.
- Font : Sets the IPD font.
- Watermark : Sets an overlapping image on the printed content.

To display the setting windows in the [Printing Preferences] dialog, follow the steps below.

1. Right-click a printer icon in the Printer folder to display the sub-menu.
2. Click [Printing Preferences] from the sub-menu.

Details of the windows are described in subsequent sections.

Caution

◆ When printing from Windows Store Apps, only a part of configurable items is displayed in [Printing Preferences] window.

3.1 Layout

Sets the print direction, page order, and page format.

3.1.1 Setting of Layout

Select the [Layout] tab to display the window below.

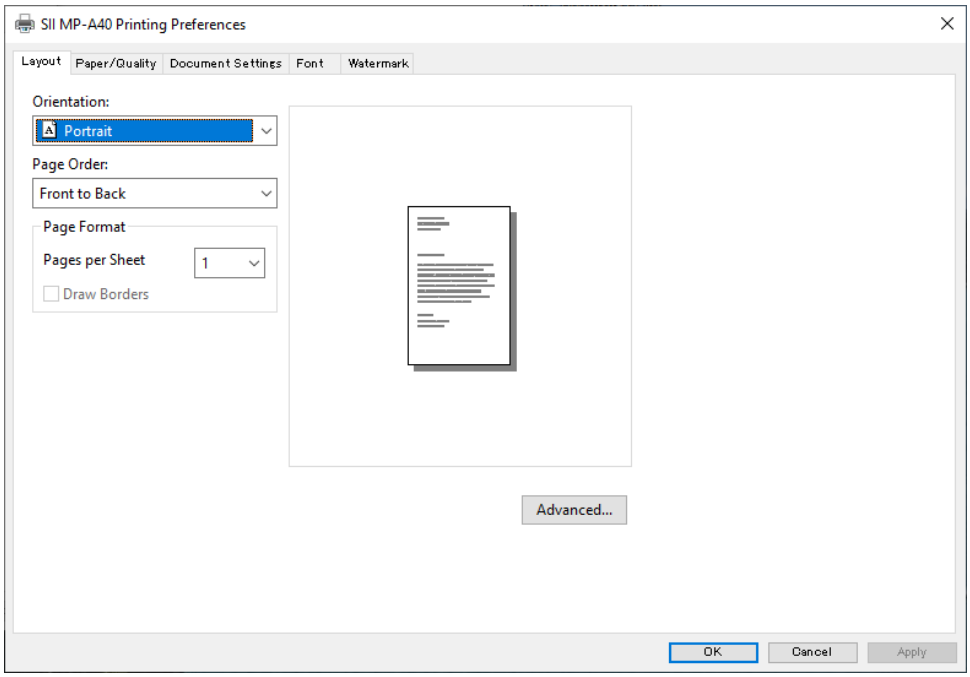


Figure 3-1 [Layout] Window

Item	Description ("____": Default)
Orientation	Select the print direction.*1 ・ Portrait ・ Landscape
Page Order	Select the order of pages to print. ・ Front to Back ・ Back to Front
Page Format	Set the number of pages per sheet.
Pages per Sheet	Select the number of pages to print per sheet. ・ 1 ・ 2 ・ 4 ・ 6 ・ 9 ・ 16
Advanced...	Displays the advanced option dialog. For details, see "3.6 Advanced Options".

*1: When selecting "Landscape", the IPD font cannot be used.

3.2 Paper/Quality

Sets the print mode.

3.2.1 Setting of Paper/Quality

Select the [Paper/Quality] tab to display the window below.

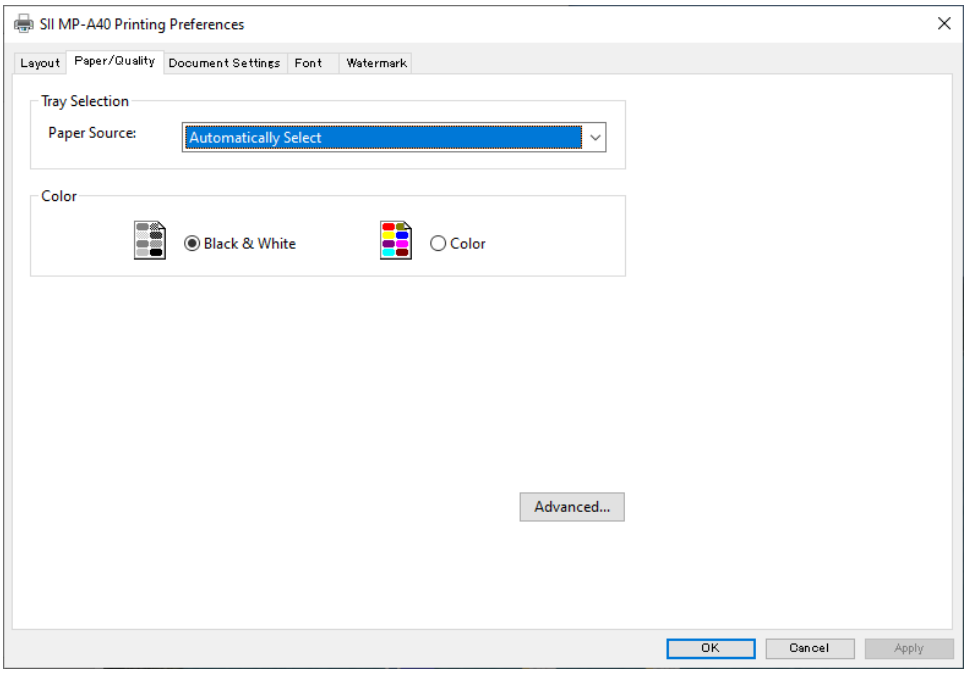


Figure 3-2 [Paper/Quality] Window

Item	Description ("____": Default)
Tray Selection	Set the paper source.
Paper Source	Fixed to "Automatically Select". ・ Automatically Select
Color	Select the print mode.*1 *2 ・ Black & White (Uses the halftone of the system standard.) ・ Color (Uses the halftone of the printer driver.)
Advanced...	Displays the advanced option dialog. For details, see "3.6 Advanced Options".

*1: When "Color" is selected, only "Auto Select" can be selected in [Halftoning] described in "3.6 Advanced Options".

*2: This setting works in conjunction with [Color Printing Mode] in "3.6 Advanced Options".

3.3 Document Settings

Sets the print format.

3.3.1 Setting of Document

Select the [Document Settings] tab to display the window below.

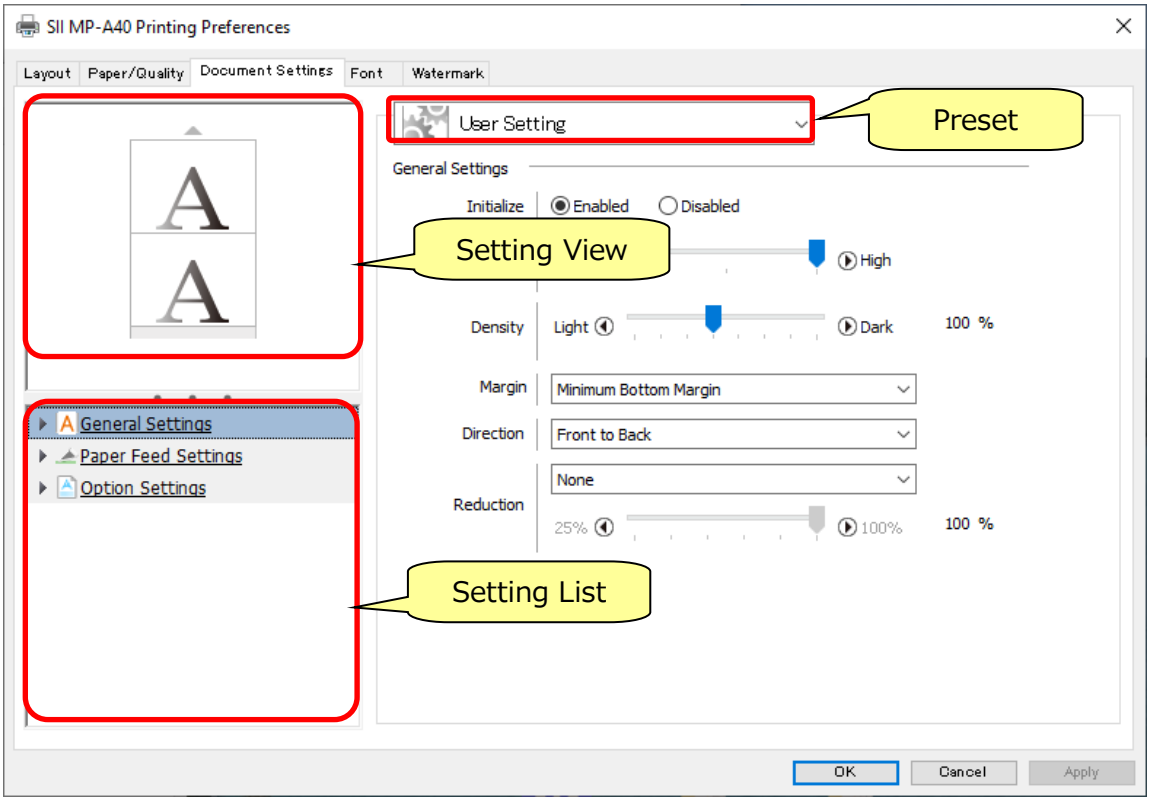


Figure 3-3 [Document Settings] Window

Item	Description ("____": Default)
Setting View	Displays the setting state of main functions with marks. For details of marks, see "3.3.2 Mark List of [Setting View]".
Setting List	Displays all the document setting functions by category. When selecting a category name, the corresponding setting window is displayed. For details of the displayed categories, see "3.3.3 Categories of [Setting List]". Click ▶ at the left of a category to display the items in the category. An item whose setting is changed is displayed in red until the change is confirmed.

Item	Description ("____": Default)
Preset	Set previously registered settings at a time for a specific usage. ・ 112 mm Receipt Setting ・ 105 mm Receipt Setting ・ 100 mm Receipt Setting ・ 80 mm Receipt Setting ・ 112 mm Marked Paper Setting ・ 105 mm Marked Paper Setting ・ 100 mm Marked Paper Setting ・ 80 mm Marked Paper Setting ・ A4->112 mm Reduction Setting ・ A4->105 mm Reduction Setting ・ A4->100 mm Reduction Setting ・ A4-> 80 mm Reduction Setting ・ User Setting For details of the settings of each preset, see "3.3.4 Use of Preset".

3.3.2 Mark List of [Setting View]

The following table describes the marks displayed in the [Setting View] in the [Document Settings] window.

Item	Mark	
Orientation	 Portrait*1	 Landscape*1
Density	 Light	 Dark
Margin	 Minimum Margin	 Minimum Top Margin
	 Minimum Bottom Margin	 Maximum Margin
Direction	 Front to Back*2	 Back to Front*2

*1: Mark displayed when [Direction] is selected to "Front to Back".

*2: Mark displayed when [Orientation] is selected to "Portrait".

3.3.3 Categories of [Setting List]

The following table describes the functional categories displayed in the [Setting List].

Category	Description
General Settings	Set basic items such as initialization and print speed.
Paper Feed Settings	Set paper feed to cut position or parameters about the black mark detection when using marked paper.
Option Settings	Set the operations at specific print timings.

Setting items for each category are described in subsequent sections.

3.3.4 Use of Preset

[Preset] enables to set predefined parameters at a time for a specific usage.
When changing any setting item in [preset], [Preset] is released at that point and then becomes "User Setting".
When switch presets, all the setting items except for the document setting are also switched according to the newly specified preset. Note that a message about the changed settings is not displayed.

The following table describes the available preset types and their settings.

Preset Type	Item		Description
112 mm Receipt Setting 105 mm Receipt Setting 100 mm Receipt Setting 80 mm Receipt Setting	Advanced Options		
		Paper Size	112 x 297 mm 105 x 297 mm 100 x 297 mm 80 x 297 mm
	Document Settings		
		General Settings	
		Reduction	None
		Paper Feed Settings	
		Paper Feed to Cut Position	Enabled
		Marked Paper Form Feed	Disabled
		Form Feed Position Correct	0 dots
112 mm Marked Paper Setting 105 mm Marked Paper Setting 100 mm Marked Paper Setting 80 mm Marked Paper Setting	Advanced Options		
		Paper Size	112 x 297 mm 105 x 297 mm 100 x 297 mm 80 x 297 mm
	Document Settings		
		General Settings	
		Reduction	None
		Paper Feed Settings	
		Paper Feed to Cut Position	Disabled
		Marked Paper Form Feed	Each Page
		Form Feed Position Correct	0 dots

Preset Type	Item	Description
A4->112 mm Reduction Setting A4->105 mm Reduction Setting A4->100 mm Reduction Setting A4-> 80 mm Reduction Setting	Advanced Options	
	Paper Size	A4
	Document Settings	
	General Settings	
	Reduction	Fit 112 mm Width Fit 105 mm Width Fit 100 mm Width Fit 80 mm Width
	Paper Feed Settings	
	Paper Feed to Cut Position	Enabled
	Marked Paper Form Feed	Disabled
	Form Feed Position Correct	0 dots

The following table describes the common preset settings.

Type	Item	Description
Common Settings	Layout	
	Orientation	Portrait
	Document Settings	
	General Settings	
	Initialize	Enabled
	Speed	Standard
	Density	100%
	Margin	Minimum Bottom Margin
	Direction	Front to Back
	Option Settings	
	(Common to all timings)	
	Enable/disable logo	Disabled
	Feed	0 dots
	Send Command	(Blank)
	Watermark	
	Watermark Settings	
	Image	None

3.3.5 General Settings

Select [General Settings] in the [Setting List] to display the window below.

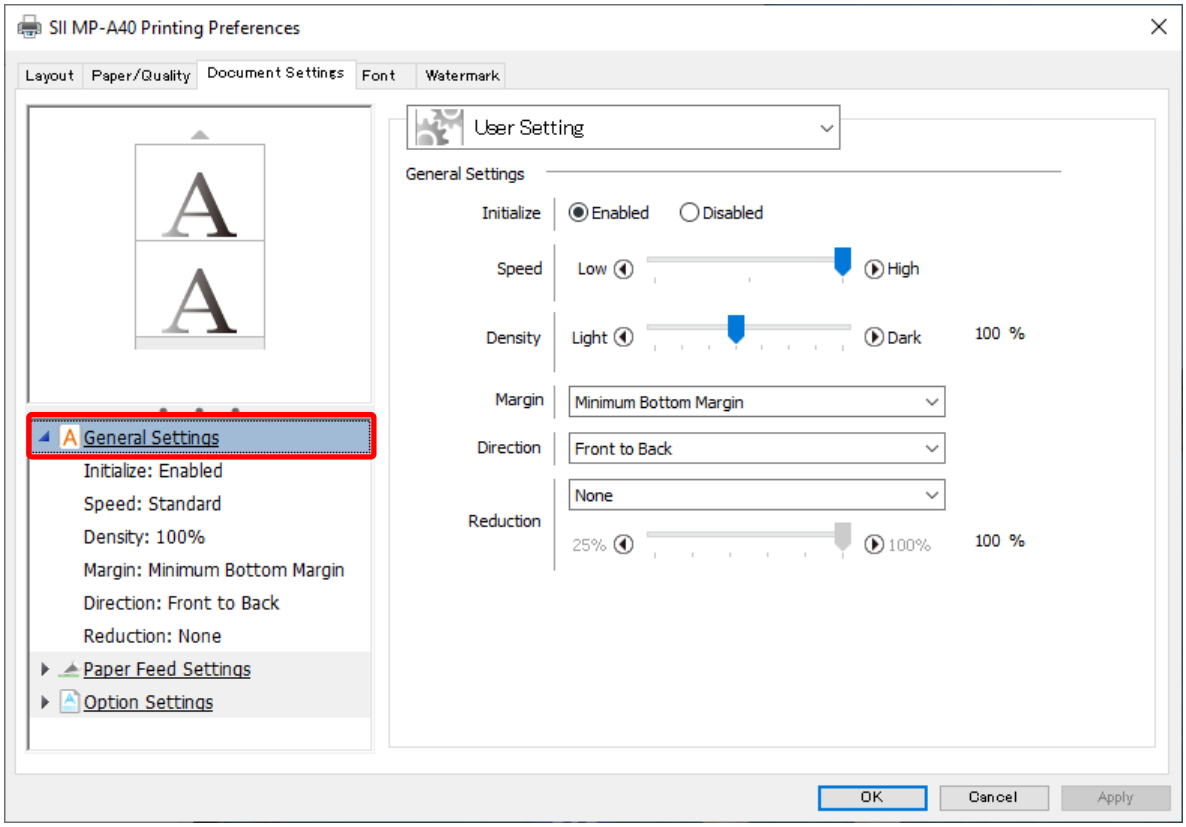


Figure 3-4 [General Settings] Window

Item	Description ("____": Default)
General Settings	Set basic items such as initialization and print speed.
Initialize	Select to initialize the printer before printing or not. ・ Enabled ・ Disabled
Speed*1	Select the print speed. ・ Standard ・ Quality 1 ・ Quality 2
Density	Set the print density (Unit: %). ・ 70 to 140*2 (100)
Margin	Select the margin.*3 ・ Minimum Margin ・ Minimum Top Margin ・ Minimum Bottom Margin ・ Maximum Margin

Item		Description ("____": Default)
	Direction	Select the paper feed direction.*4 ・ Front to Back ・ Back to Front
	Reduction	Set the reduction print.*5 ・ None ・ Fit 112 mm Width ・ Fit 105 mm Width ・ Fit 100 mm Width ・ Fit 80 mm Width ・ Scale [25 to 100] (Unit: %)

*1: Standard: The printing speed is highest out of all three options.
Quality 1: The printing speed is lower than "Standard", but the printing quality is appropriate for printing an image or barcode.
Quality 2: The printing speed is lowest, but the printing quality is highest out of all three options.

*2: The print density can be set up to 140% when the firmware version of the printer is Ver 2.03.00 or later. The print density should be set not to exceed 130% when the firmware version of the printer is earlier than Ver 2.03.00.
The firmware version of the printer can be confirmed by test printing. See the "MP-A40 SERIES THERMAL PRINTER USER'S GUIDE" for the procedure of the test printing.

*3: When the print size is less than 30 mm, paper is fed to be 30 mm.

*4: When selecting "Back to Front", the IPD font cannot be used.

*5: When selecting other than "None", the IPD font cannot be used.

Reference

- Direction

  When setting [Direction] to "Back to Front", available to rotate the print data by 180°.

- Saving margins

  Available to save paper by setting [Margin] to shorten the margin length.

	To save the margin from the print start to the first print data	To save the margin from the last print data to the print end
Minimum Margin	✓	✓
Minimum Top Margin	✓	-
Minimum Bottom Margin	-	✓
Maximum Margin	-	-

For more information on margin, refer to "6.3 Margin".

3.3.6 Setting of Paper Feed

Select [Paper Feed Settings] in the [Setting List] to display the window below.

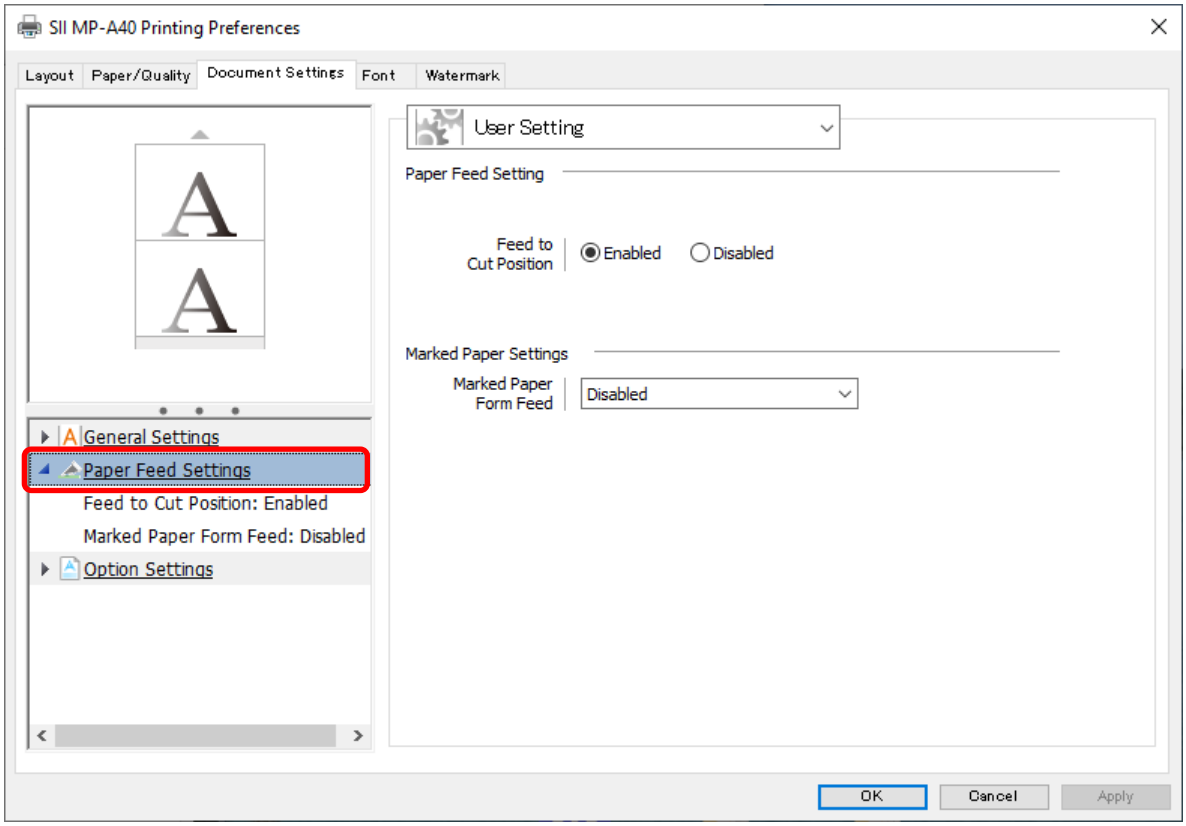


Figure 3-5 [Paper Feed Settings] Window

Item	Description ("____": Default)
Paper Feed Settings	Set parameters of paper feed to the paper cut position.
Paper Feed to Cut Position	Select to feed the paper to the cut position or not. ・ Enabled ・ Disabled
Marked Paper Settings	Set parameters about the black mark detection when using marked paper.
Marked Paper Form Feed	Set the detection of the black mark. ・ Disabled ・ Each Page ・ Each Job
Form Feed Position Correct	Set the form feed position correction (Unit: dot). ・ -48 to 255 (0)

3.3.7 Setting of Option

Select [Option Settings] in the [Setting List] to display the window below.

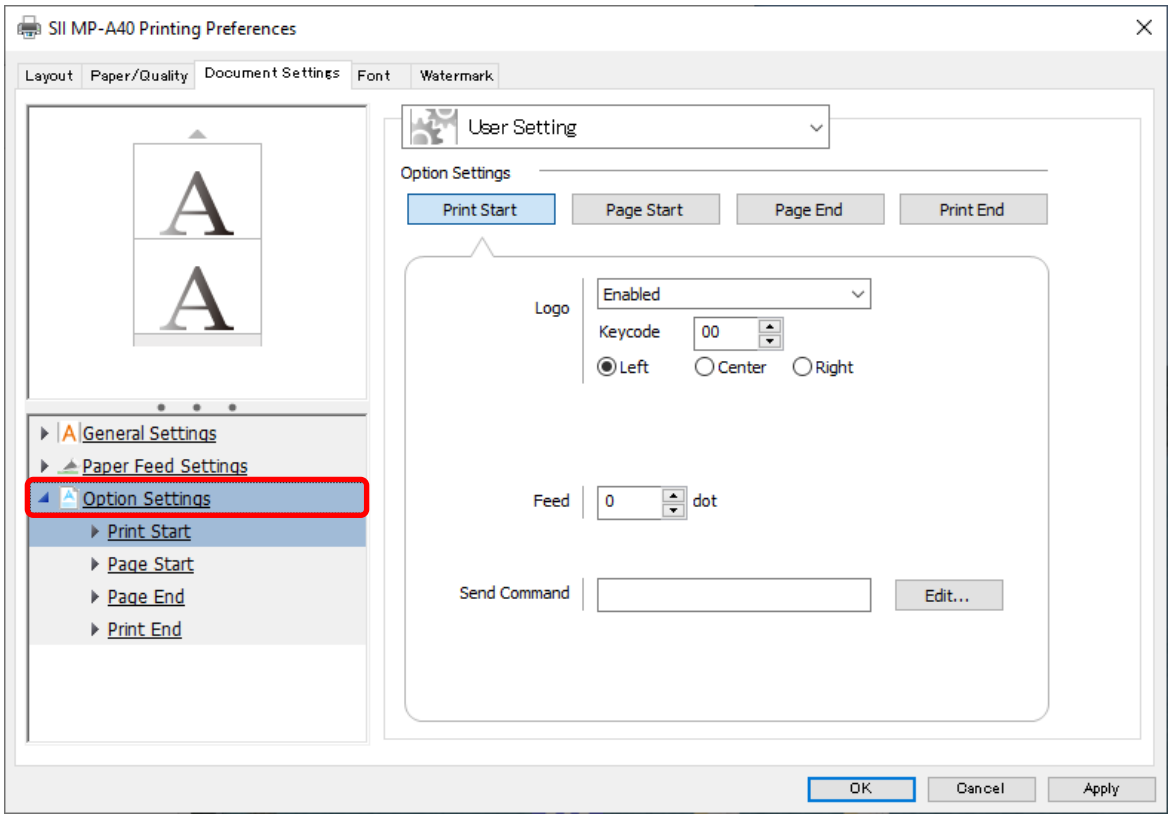


Figure 3-6 [Option Settings] Window

Item	Description ("____": Default)
Option Settings	Set parameters about the Logo, Feed, and Send command.
Print Start Page Start Page End Print End	Set the operations at specific timings.
Logo	Set parameters about the logo.
Enable/disable logo	Select to show the logo or not. ・ Disabled ・ Enabled
Keycode	Set the keycode of the logo. ・ 00 to 99
Logo Position	Select the position to print the logo. ・ Left ・ Center ・ Right
Feed	Set the feed (Unit: dot). ・ -48 to 255 (0)

Item		Description ("____": Default)
Send Command		Set the Printer command to send.
	Command data	Displays the Printer command to send.*1 To enter data, use the binary editor which is displayed by clicking the [Edit...] button.
	Edit...	Enter the Printer command by the binary editor. The Printer command entered is displayed in [Command data]. Up to 128 bytes can be specified. For details of the binary editor, see "3.3.8 How to Use Binary Editor".

*1: Direct data entry is not accepted.

Reference

- Logo

  Function to print a predefined image as logo. An NV image is used as the logo image.

  For details of the NV image, see "SII Printer Setting Utility for Windows User's Guide".

3.3.8 How to Use Binary Editor

For a control in which the Printer command or arbitrary data needs to be input, the binary editor is used.

Use the binary editor in the following situation.

- [Send Command] of [Option Settings] in the [Document Settings]
- [ControlA Font Settings]
- To set [Custom Cmd.] of [Test Print] in the [Tool]

Click the [Edit…] button for above settings to display the window below.

Enter hexadecimal and click the [OK] button to confirm the value.

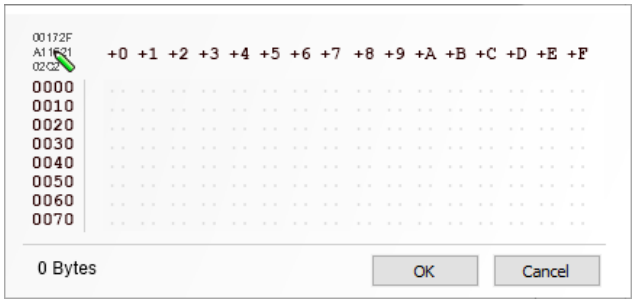


Figure 3-7 [Binary editor] Window

3.4 Font

Sets the IPD font.

Caution

◆ The IPD font settings are not available with any of the following settings.

- [Orientation] in "3.1.1 Setting of Layout" : "Landscape"
- [Direction] in "3.3.5 General Settings" : "Back to Front"
- [Reduction] in "3.3.5 General Settings" : Other than "None"
- [Image] in "3.5.4 Setting of Watermark" : "NV Image"

Reference

- For details of the IPD font, see "Chapter 7 Font".

3.4.1 Setting of Font

Select the [Font] tab to display the window below.

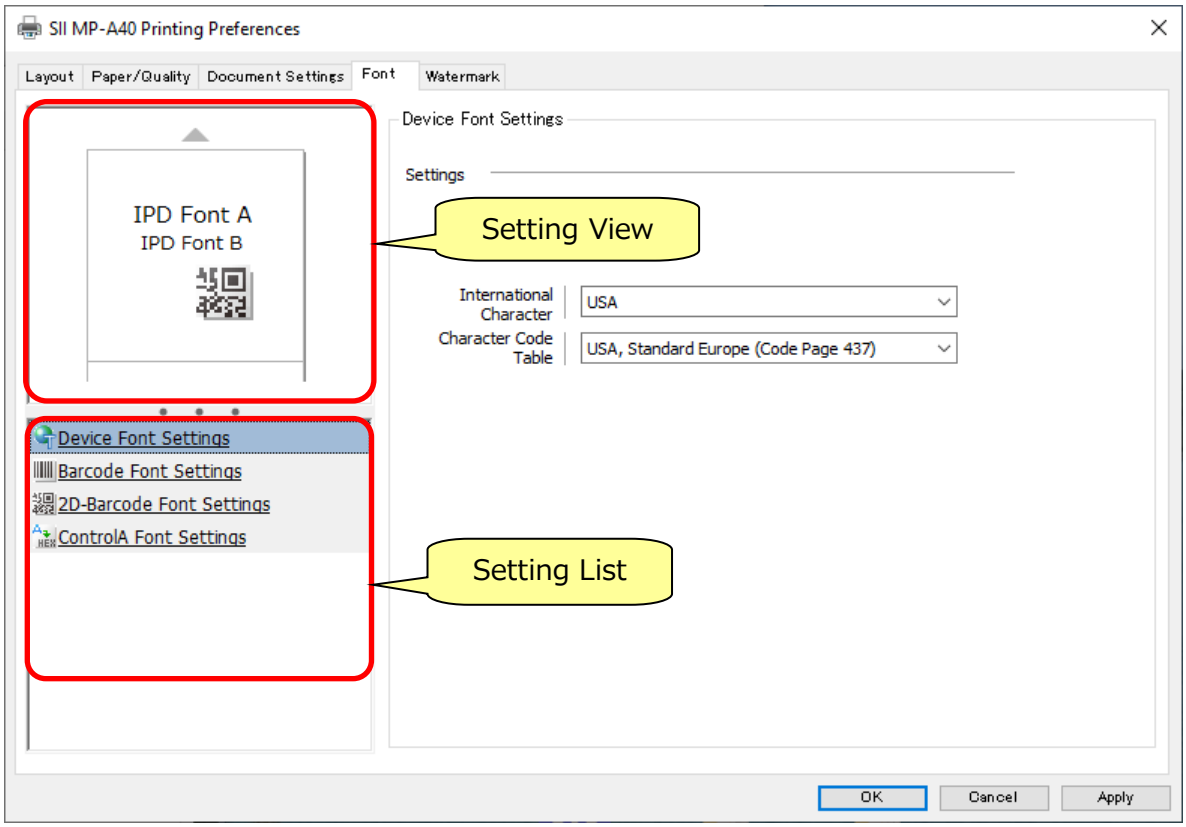


Figure 3-8 [Font] Window

Item	Description
Setting View	Displays the availability of IPD font in the current settings with marks. For details of marks, see "3.4.2 Mark List of [Setting View]".
Setting List	Displays the font category names. When selecting a category name, the corresponding setting window is displayed.

3.4.2 Mark List of [Setting View]

The following marks are displayed in the [Setting View] in the [Font] window.

Condition	Mark
IPD font available	
IPD font not available	

3.4.3 Categories of [Setting List]

The following categories are displayed in the [Setting List] in the [Font] window.

Category	Description
Device Font Settings	Set the International Character and Character Code Table for the device font.
Barcode Font Settings	Set the type, barcode size, and others for the Barcode font.
2D-Barcode Font Settings	Set the type, barcode size, and others for the 2D-Barcode font.
ControlA Font Settings	Set parameters about the Printer command assigned to the ControlA font.

Setting items for each category are described in subsequent sections.

3.4.4 Setting of Device Font

Select [Device Font Settings] in the [Setting List] to display the window below.

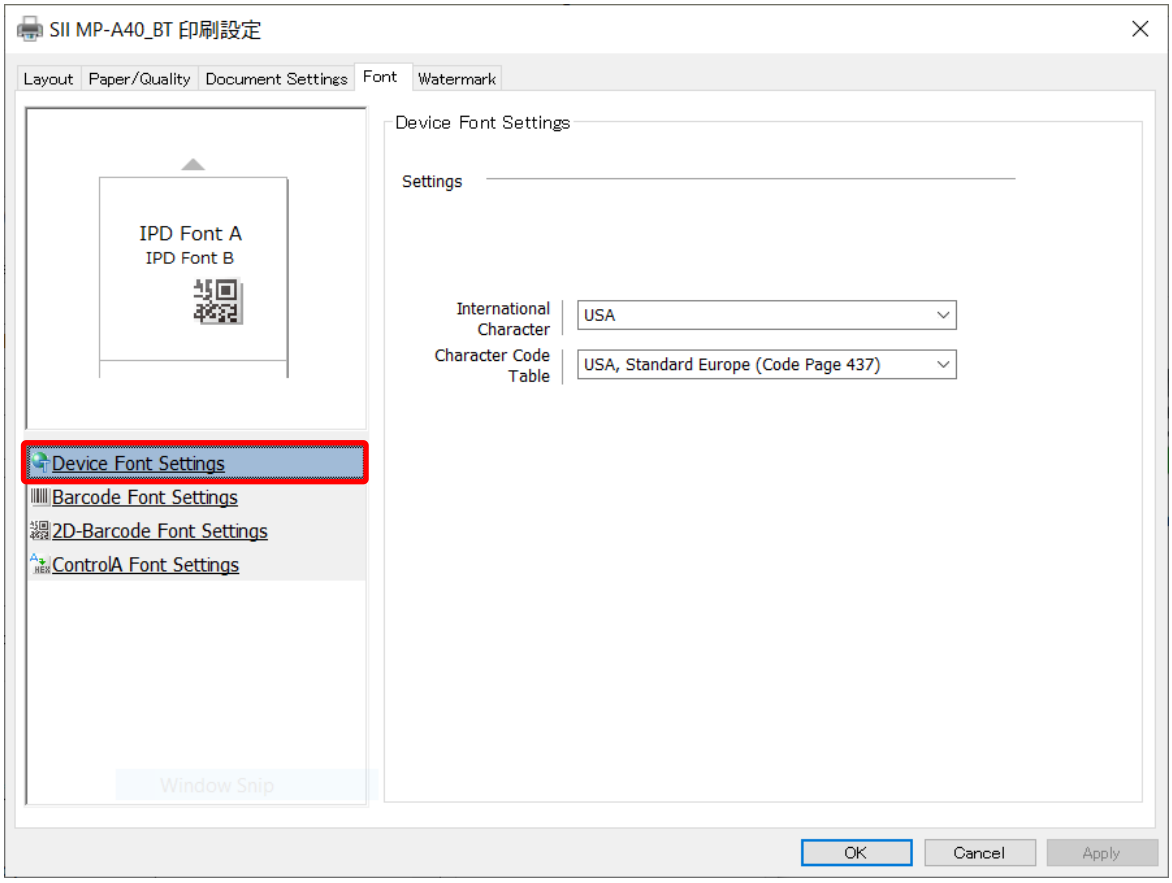


Figure 3-9 [Device Font Settings] Window

Item	Description ("____": Default)
Settings	Set parameters about the device font.
International Character	Select the international character. ・ USA ・ France ・ Germany ・ United Kingdom ・ Denmark I ・ Sweden ・ Italy ・ Spain I ・ Japan ・ Norway ・ Denmark II ・ Spain II ・ Latin America ・ Arabia

Item	Description ("____": Default)
Character Code Table	Select the character code table. ・ USA, Standard Europe (Code Page 437) ・ Katakana ・ Multilingual (Code Page 850) ・ Portuguese (Code Page 860) ・ Canadian-French (Code Page 863) ・ Nordic (Code Page 865) ・ Turkish (Code Page 857) ・ Greek (Code Page 737) ・ Latin (Code Page 1252) ・ Russian（Code Page 866） ・ Eastern Europe（Code Page 852） ・ Euro（Code Page 858） ・ Cyrillic（Code Page 855） ・ Arabic（Code Page 864） ・ Central European（Code Page 1250） ・ Cyrillic（Code Page 1251） ・ Greek（Code Page 1253） ・ Turkish（Code Page 1254） ・ User Page

3.4.5 Setting of Barcode Font

Select [Barcode Font Settings] in the [Setting List] to display the window below.

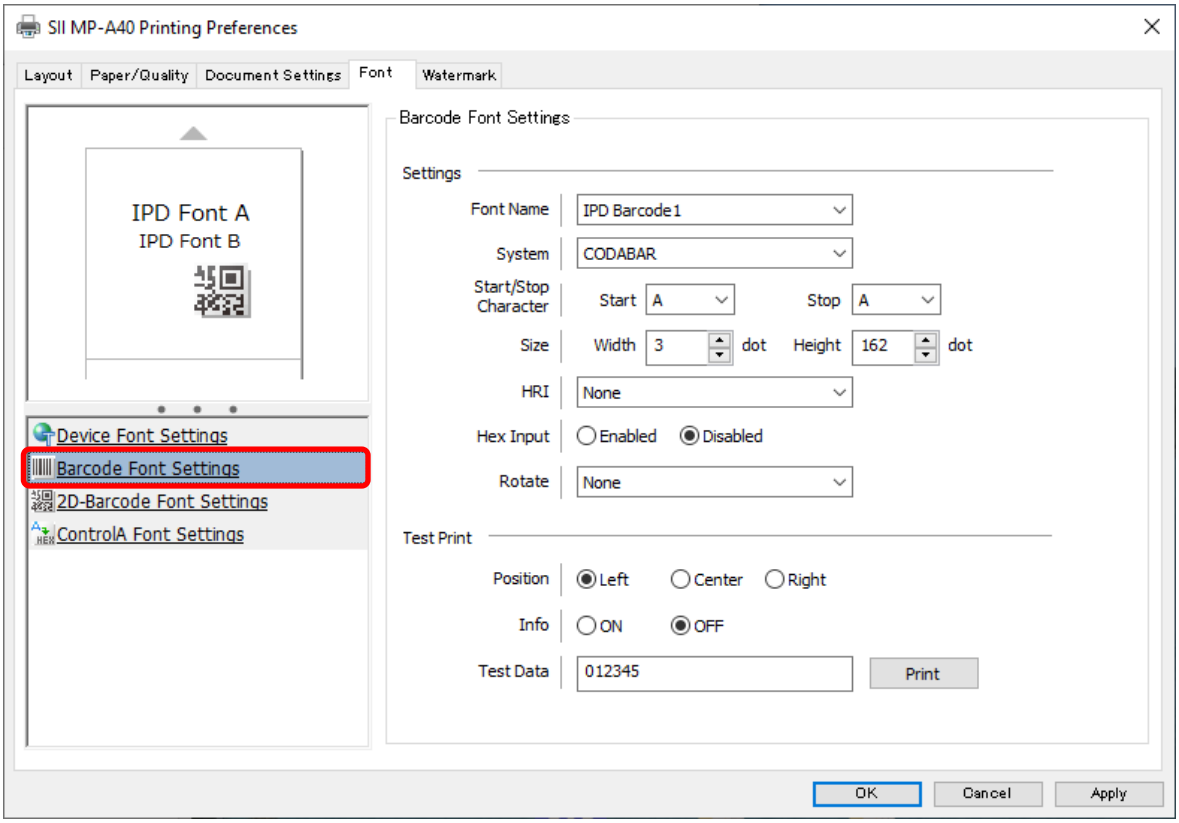


Figure 3-10 [Barcode Font Settings] Window

Item		Description ("____": Default)
Settings		Set parameters about the barcode font.
	Font Name	Select the Font Name. ・ IPD Barcode1 ・ IPD Barcode2 ・ IPD Barcode3 ・ IPD Barcode4 ・ IPD Barcode5 ・ IPD Barcode6 ・ IPD Barcode7 ・ IPD Barcode8 ・ IPD Barcode9 ・ IPD Barcode10

Item	Description ("____": Default)
System	Select the system of the barcode. ・ UPC-A ・ UPC-E ・ JAN13 (EAN13) ・ JAN8 (EAN8) ・ Code39 ・ ITF ・ CODABAR ・ CODE128 ・ CODE93 ・ JAN13 (EAN13) add-on 2 ・ JAN13 (EAN13) add-on 5 ・ GS1 Databar Omni-directional ・ GS1 Databar Truncated ・ GS1 Databar Limited ・ GS1 Databar Expanded
Start/Stop Character	Set the start character and stop character.*1
Start	Select the start character of "CODABAR". ・ A ・ B ・ C ・ D
Stop	Select the stop character of "CODABAR". ・ A ・ B ・ C ・ D
Size	Set the barcode size.
Width	Set the narrow element width or the module width. (Unit: dot) ・ 2 to 6 (3)
Height	Set the height of the barcode in dots. (Unit: dot) ・ 1 to 255 (162) However, regarding the following barcodes, the settable range depends on the [Width] selection.*2 ➢ GS1 Databar Omni-directional ➢ GS1 Databar Truncated ➢ GS1 Databar Limited ➢ GS1 Databar Expanded
HRI	Select the position and font of the HRI characters added to the barcode. ・ None ・ Over barcode (Font A) ・ Under barcode (Font A) ・ Over and under barcode (Font A) ・ Over barcode (Font B) ・ Under barcode (Font B) ・ Over and under barcode (Font B)
Hex Input	Select [Enabled] when the barcode font data or [Test Data] is entered in hexadecimal.*3 ・ Enabled ・ Disabled

Item		Description ("____": Default)
	Rotate	Select to rotate the barcode at printing or not and angle when rotating. ・ None ・ 90 degrees to right ・ 180 degrees ・ 90 degrees to left
Test Print		Set parameters about the test print.
	Position	Select the position of the barcode. ・ Left ・ Center ・ Right
	Info	Select to append the information in the [Settings] to the test print or not. ・ ON ・ OFF
	Test Data	Enter the data for test print. Up to 64 characters can be entered, and only 1-byte character is available.*3
	Print	Prints the barcode with the entered settings and [Test Data].*4

*1: Displayed only when "CODABAR" is selected in [System].

*2: The range of the barcode size is in the following table.
When the [Height] value is specified less than the minimum value, the value is automatically changed to the minimum value.

[System]	[Width]	Range of [Height]
GS1 Databar Omni-directional	2	66 to 255
	3	99 to 255
	4	132 to 255
	5	165 to 255
	6	198 to 255
GS1 Databar Truncated	2	26 to 255
	3	39 to 255
	4	52 to 255
	5	65 to 255
	6	78 to 255
GS1 Databar Limited	2	20 to 255
	3	30 to 255
	4	40 to 255
	5	50 to 255
	6	60 to 255
GS1 Databar Expanded	2	68 to 255
	3	102 to 255
	4	136 to 255
	5	170 to 255
	6	204 to 255

*3: Input formats for barcode font data are as follows.
Input Example: barcode font data (012345)
When [Hex Input] is "Disabled": 012345
When [Hex Input] is "Enabled": 303132333435

*4: Not available when the [Test Data] is blank.

3.4.6 Setting of 2D-Barcode Font

Select [2D-Barcode Font Settings] in the [Setting List] to display the window below.

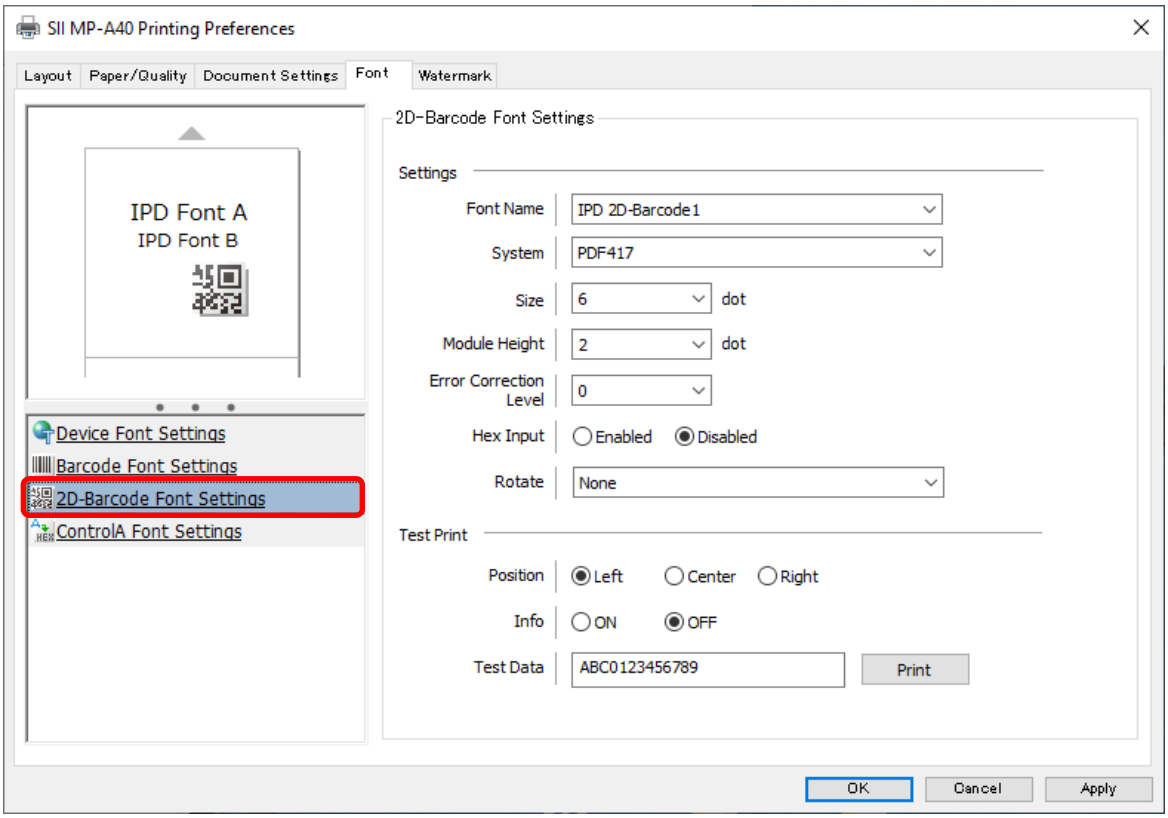


Figure 3-11 [2D-Barcode Font Settings] Window

Item	Description ("____": Default)
Settings	Set parameters about the 2D-Barcode font.
Font Name	Select the Font Name. ・ IPD 2D-Barcode1 ・ IPD 2D-Barcode2 ・ IPD 2D-Barcode3 ・ IPD 2D-Barcode4 ・ IPD 2D-Barcode5
System	Select the system of the 2D-Barcode. ・ QR Code Model-2 ・ PDF417 ・ Data Matrix ・ Maxi Code ・ GS1 Databar Stacked ・ GS1 Databar Stacked Omni-directional ・ GS1 Databar Expanded Stacked
Size	Set 1 module size (Unit: dot).*1 ・ 2 to 16 (6)*2 ・ 2 to 8 (3)*3

Item	Description ("____": Default)
Module Height	Set the module height. (Unit: dot).*4 ・ 2 to 127 (10)*5 ・ 33 to 255*6
Error Correction Level	Select the QR Code error correction level.*7 *8 When [System] is "QR Code Model-2": ・ L ・ M ・ Q ・ H Select PDF417 error correction level.*7 *9 ・ 0 to 8
Mode	Select Mode.*10 ・ Mode 2 ・ Mode 3 ・ Mode 4 ・ Mode 5
Module	Select the number of Modules.*11 ・ Auto ・ 10×10 ・ 12×12 ・ 14×14 ・ 16×16 ・ 18×18 ・ 20×20 ・ 22×22 ・ 24×24 ・ 26×26 ・ 32×32 ・ 36×36 ・ 40×40 ・ 44×44 ・ 48×48 ・ 52×52 ・ 64×64 ・ 72×72 ・ 80×80 ・ 88×88 ・ 96×96 ・ 104×104 ・ 120×120 ・ 132×132 ・ 144×144 ・ 8×18 ・ 8×32 ・ 12×26 ・ 12×36 ・ 16×36 ・ 16×48
Element	Select the number of Element.*12
Hex Input	Select [Enabled] when the barcode font data or [Test Data] is entered in hexadecimal.*13 ・ Enabled ・ Disabled

Item	Description ("____": Default)
Rotate	Select to rotate the 2D-Barcode at printing or not and angle when rotating. ・ None ・ 90 degrees to right ・ 180 degrees ・ 90 degrees to left
Test Print	Set parameters about the test print.
Position	Select the position of the 2D-Barcode. ・ Left ・ Center ・ Right
Info	Select to append the information in the [Settings] to the test print or not. ・ ON ・ OFF
Test Data	Enter the data for test print. Up to 64 characters are available, and both 1-byte character and 2-byte character are valid.*13
Print	Prints the 2D-Barcode with the entered settings and [Test Data].*14

*1: Displayed only when the following is selected in [System].
- QR Code Model-2
- PDF417
- Data Matrix
- GS1 Databar Stacked
- GS1 Databar Stacked Omni-directional
- GS1 Databar Expanded Stacked

*2: Values only when the following is selected in [System].
- QR Code Model-2
- Data Matrix
- GS1 Databar Stacked
- GS1 Databar Stacked Omni-directional
- GS1 Databar Expanded Stacked

*3: Values only when "PDF417" is selected in [System].

*4: Displayed only when the following is selected in [System].
- PDF417
- GS1 Databar Stacked Omni-directional

*5: Values only when "PDF417" is selected in [System].

*6: Values only when "GS1 Databar Stacked Omni-directional" is selected in [System].

*7: Displayed only when the following is selected in [System].
- QR Code Model-2
- PDF417

*8: Values only when "QR Code Model-2" is selected in [System].

*9: Values only when "PDF417" is selected in [System].

*10: Displayed only when "Maxi Code" is selected in [System].

*11: Displayed only when "Data Matrix" is selected in [System].

*12: Displayed only when "GS1 Databar Expanded Stacked" is selected in [System].

*13: Input formats for barcode font data are as follows.
Input Example: barcode font data (012345)
When [Hex Input] is "Disabled": 012345
When [Hex Input] is "Enabled": 303132333435

*14: Not available when the [Test Data] is blank.

3.4.7 Setting of ControlA Font

Select [ControlA Font Settings] in the [Setting List] to display the window below.

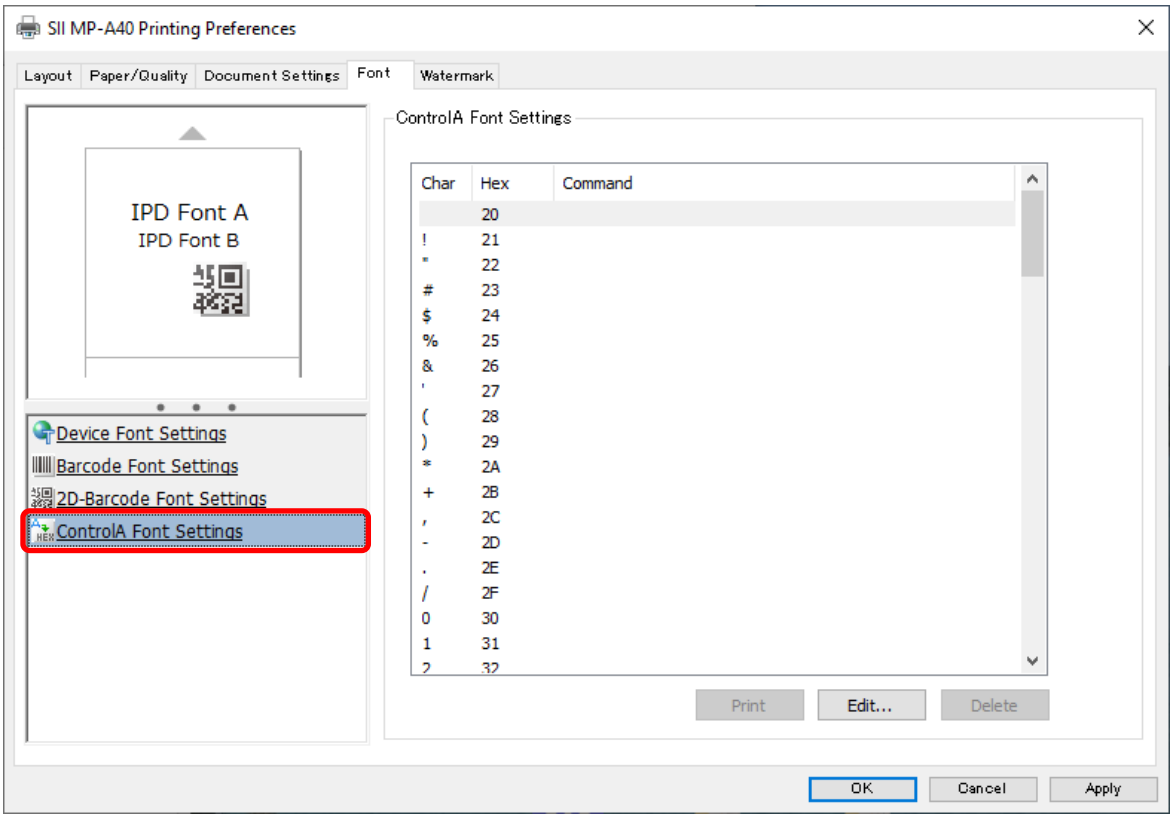


Figure 3-12 [ControlA Font Settings] Window

Item	Description
Char	Displays characters to assign the Printer command.
Hex	Displays [Char] in hexadecimal.
Command	Displays the Printer command set. To enter the Printer command, use the binary editor which is displayed by clicking the [Edit...] button.
Print	Executes the Printer command selected in the list.*1
Edit...	Enter the Printer command by the binary editor.*2 The Printer command entered is displayed in [Command] column. Up to 256 bytes can be specified. For details of the binary editor, see "3.3.8 How to Use Binary Editor".
Delete	Clears the [Command] field selected in the list.*1 *2

*1: Not available when a blank [Command] field is selected in the list.

*2: Not available from the [Printing Preferences] window that was started when printing from an application. To use these options, start the [Printing Preferences] window from the Printer folder.

3.5 Watermark

Sets an overlapping image on the printed content.

An NV image, which has been registered by a user to the printer in advance, is used as the overlapping image.

To use the watermark, the NV image needs to be registered. For details of registering NV image, see "SII Printer Setting Utility for Windows User's Guide".

Caution

◆ When the size of the NV image to be used as the watermark is greater than the print area, the watermark will not be printed.

3.5.1 Watermark

Select the [Watermark] tab to display the window below.

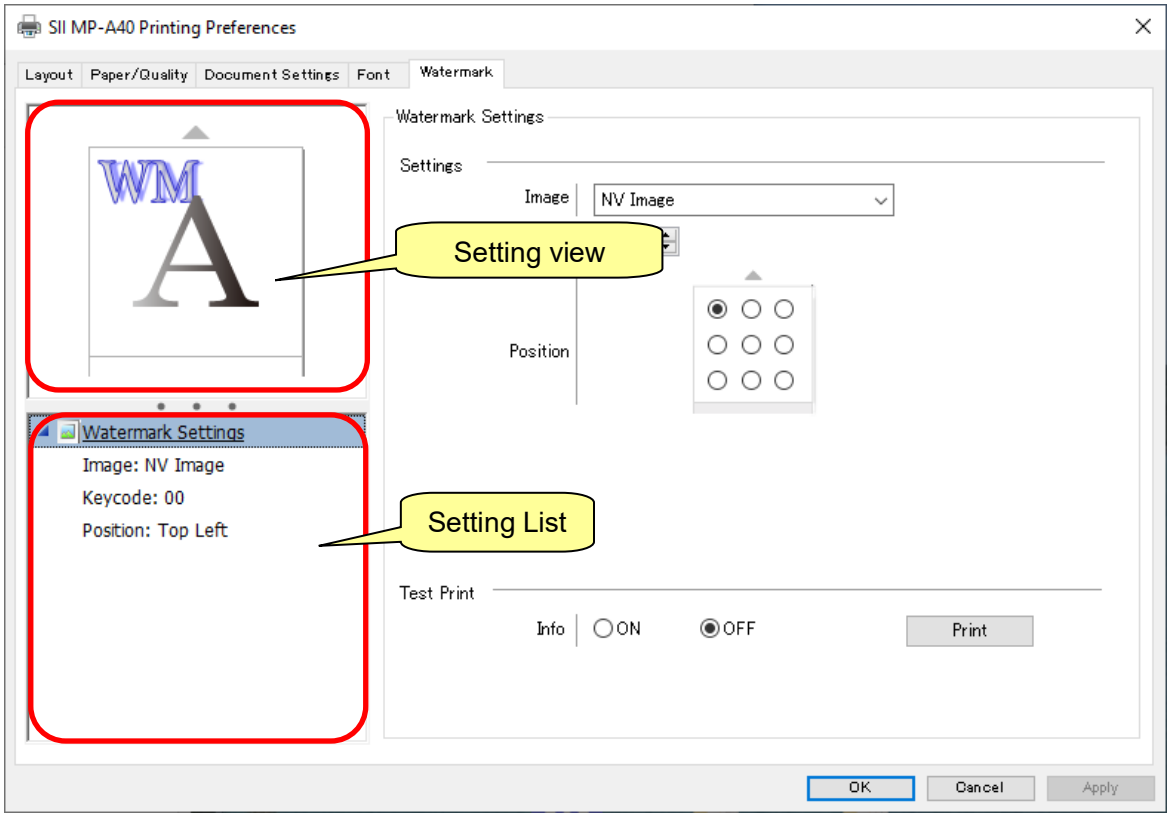


Figure 3-13 [Watermark] Window

Item	Description
Setting View	Displays the position of the watermark with marks. For details, see "3.5.2 Mark List of [Setting View]".
Setting List	Displays the watermark settings by category. When selecting a category name, the corresponding setting window is displayed. For details of the displayed categories, see "3.5.3 Categories of [Setting List]". Click ▶ at the left of a category to display the items in the category. An item whose setting is changed is displayed in red until the change is confirmed.

3.5.2 Mark List of [Setting View]

The following marks are displayed in the [Setting View] in the [Watermark] window.

Item	Mark		
Position	 Top Left	 Top Center	 Top Right
	 Left	 Center	 Right
	 Bottom Left	 Bottom Center	 Bottom Right

3.5.3 Categories of [Setting List]

The following settings are displayed in the [Setting List] in the [Watermark] window.

Category	Description
Watermark Settings	Set parameters about the watermark.

The watermark settings are described in subsequent sections.

3.5.4 Setting of Watermark

Select the [Watermark] tab to display the window below.

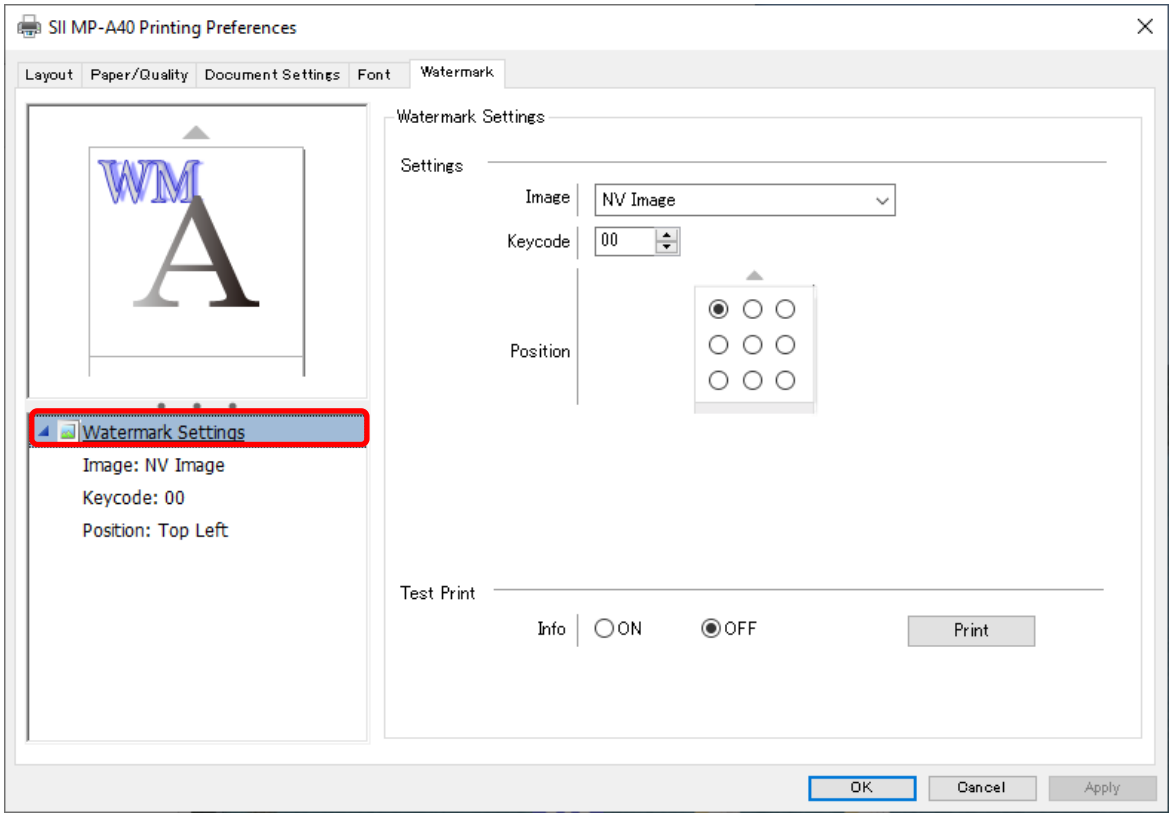


Figure 3-14 [Watermark Settings] Window

Item	Description ("____": Default)
Settings	Set parameters about the watermark.
Image	Set the type of the image used as the watermark.*1 ・ None ・ NV Image
Keycode	Enter the keycode of the image used as the watermark.*2 ・ 00 to 99
Position	Select the position of the watermark.*2 ・ Top Left ・ Top Center ・ Top Right ・ Left ・ Center ・ Right ・ Bottom Left ・ Bottom Center ・ Bottom Right
Test Print	Set parameters about the test print.*2
Info	Select to append the information in the [Settings] to the test print or not. ・ ON ・ OFF
Print	Prints the watermark with the entered settings and data.

*1: When selecting other than "None", the IPD font cannot be used.
*2: Not displayed when [Image] is selected to "None".

3.5.5 Use of Watermark

This section describes the procedure to use the watermark.

1. Register an image used for the watermark. For details of registering NV image, see "SII Printer Setting Utility for Windows User's Guide".
2. Select "NV Image" for [Image] in the [Watermark Settings] window of [Printing Preferences].
3. Enter the keycode of the image used as the watermark in [Keycode].
4. Select the position of the watermark in [Position].
5. Click the [Apply] button.

3.6 Advanced Options

3.6.1 Setting of Advanced Options

Click the [Advanced...] button at the lower right of the [Layout] or [Paper/Quality] window to display the window below.

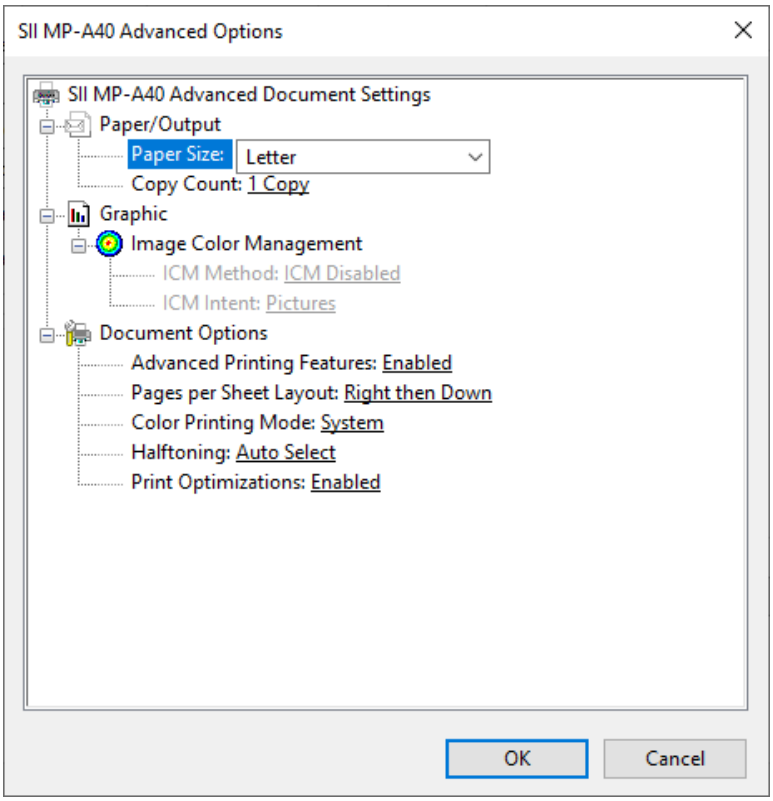


Figure 3-15 [Advanced Options] Window

Item	Description ("____": Default)
Paper/Output	Set the paper size and the number of copies.
Paper Size	Select the paper size to use.*1 ・ 112 × 297 mm ・ 105 × 297 mm ・ 100 × 297 mm ・ 80 × 297 mm ・ 112 × 1188 mm ・ 105 × 1188 mm ・ 100 × 1188 mm ・ 80 × 1188 mm ・ A4*2 ・ Letter*3
Copy Count	Enter the number of copies to print (Unit: Copy). ・ 1 to 9999

Item	Description ("____": Default)
Graphic	Set the ICM method and intent.*4
ICM Method	Select the ICM method. ・ ICM Disabled ・ ICM Handled by Host System ・ ICM Handled by Printer
ICM Intent	Select the ICM intent. ・ Graphics ・ Pictures ・ Proof ・ Match
Document Options	Set the document options.
Advanced Printing Features	Select the advanced printing features. ・ Enabled ・ Disabled
Pages per Sheet Layout	Select the page layout in a sheet. ・ Right then Down ・ Down then Right ・ Left then Down ・ Down then Left
Color Printing Mode	Select the color print mode. ・ System ・ Driver This selection works in conjunction with the [Color] setting in "3.2 Paper/Quality".*5
Halftoning	Select the halftoning.*6 ・ Auto Select ・ Super Cell ・ Dither 2x2 ・ Dither 4x4 ・ Dither 6x6 ・ Dither 8x8
Print Optimizations	Select the print optimizations. ・ Enabled ・ Disabled

*1: New paper size can be registered and set. For details how to register a paper size, see "6.4 How to Add New Paper Size".
*2: The default of Japanese environment.
*3: The default of the environment other than Japanese.
*4: Available only when selecting "Color" for [Color] described in "3.2 Paper/Quality".
*5: When selecting [System], [Color] in the [Paper/Quality] window is changed to "Black & White", or when selecting [Driver], [Color] in the [Paper/Quality] window is changed to "Color". For details, refer to "3.2 Paper/Quality".
*6: When selecting "Color" for [Color] described in "3.2 Paper/Quality", only "Auto Select" can be selected.

Chapter 4 Property

This chapter describes the property settings.

Various property settings can be displayed, reviewed, and changed in the [Properties] dialog.

The following setting windows are displayed in the [Properties] dialog.

- General : Executes the general management of the printer driver and prints the test page.
- Sharing : Sets the shared printers.
- Ports : Sets the output ports.
- Device Settings : Sets the devices.
- Tool : Displays the version information of the printer driver and the start buttons for various tools.

To display the setting windows in the [Properties] dialog, follow the steps below.

1. Right-click a printer icon in the Printer folder to display the sub-menu.
2. Click [Printer Properties] from the sub-menu.

Details are described in subsequent sections.

Caution

◆ For the setting windows other than the above that are displayed in the [Properties] window, keep the default settings at installation.

4.1 General

Executes the general management of the printer driver and prints the test page.

4.1.1 Setting of General

Select the [General] tab to display the window below.

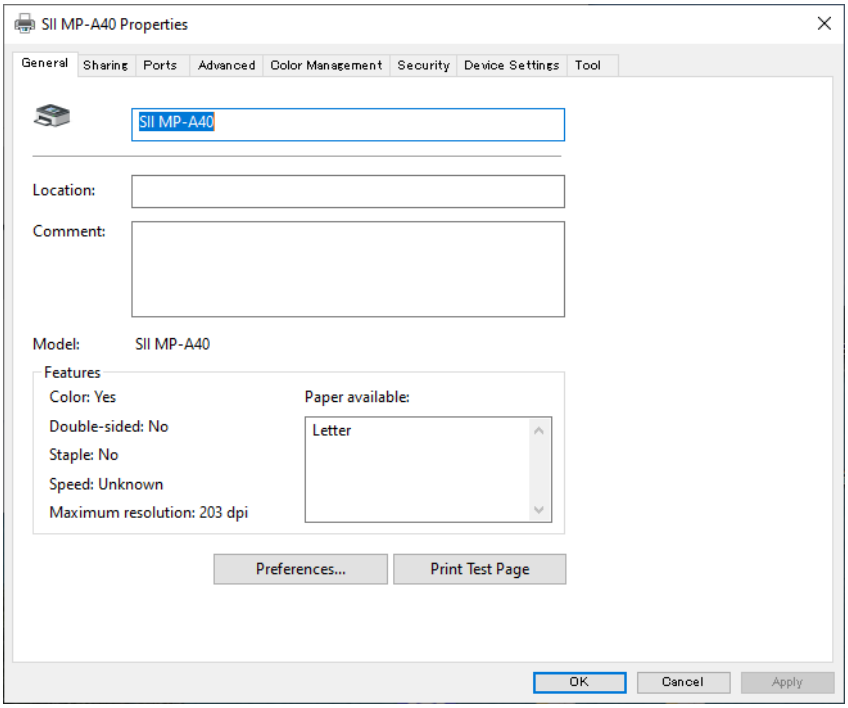


Figure 4-1 [General] Window

Item	Description
Printer name	Review or change the Printer name.*1
Location	Enter the location of the printer.
Comment	Enter a comment.
Model	Displays the printer Driver name.
Preferences...	Displays the [Printing Preferences] window.
Print Test Page	Executes the Windows test print.*2

*1: If the printer name is changed, the values set in [Preferences...] may be initialized.
*2: The test printing by [Print Test Page] will not produce a whole-page printout on the paper whose width is for compact printers. So it is not a defect.

4.2 Sharing

Sets the shared printers.

4.2.1 Setting of Sharing

Select the [Sharing] tab to display the window below.

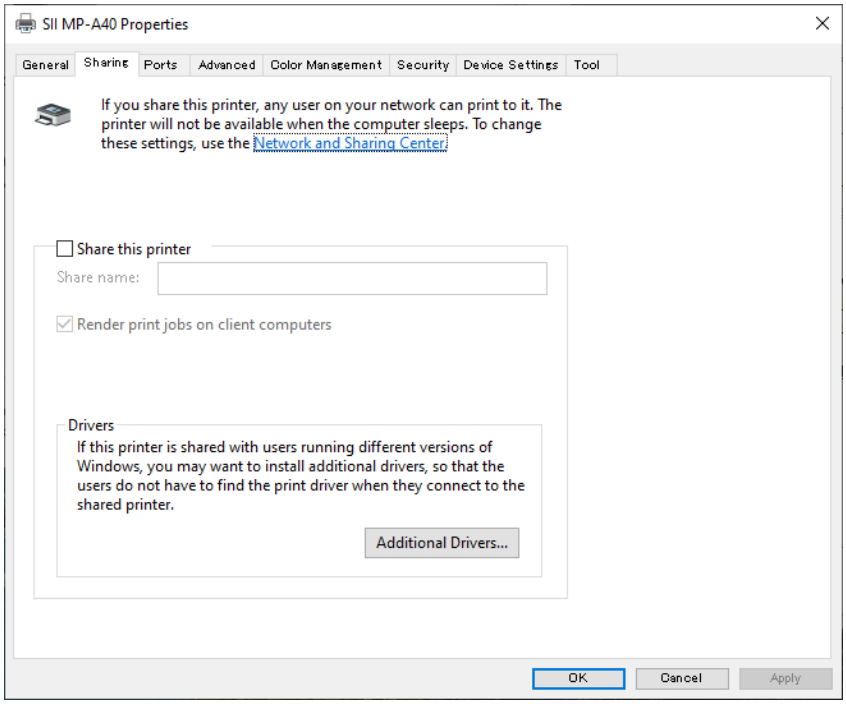


Figure 4-2 [Sharing] Window

Item		Description
Share this printer		When selecting this check box and enter an arbitrary share name in [Share name], then the printer driver can be used by any computer on the network.
	Share name	Enter the share name of the printer.
	Additional Drivers...	This function is not supported.

Caution

◆ A shared printer may not work properly depending on the network usage.

4.3 Ports

Sets the output ports.

4.3.1 Setting of Ports

Select the [Ports] tab to display the window below.

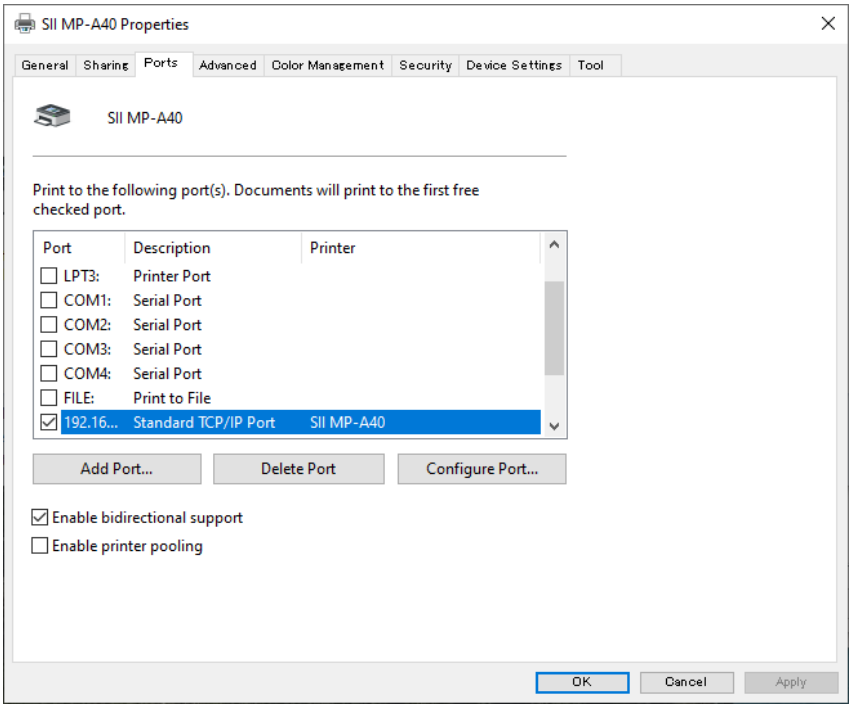


Figure 4-3 [Ports] Window

Item	Description
Add Port...	Add ports.
Delete Port	Delete the added ports.
Configure Port...	Set parameters about the serial connection.*1
Enable bidirectional support	Select this check box to retrieve the information from the printer.*2
Enable printer pooling	By enabling it, check boxes of multiple ports are available to check, so that the same content can be printed by the printers connected to those ports.*3

*1: This setting requires logon to the computer with administrator privileges.
*2: When the check box is cleared, the tools and the SDK become unavailable.
*3: When using the SDK, clear the selection.

4.4 Device

Sets the devices.

4.4.1 Setting of devices

Select the [Device Settings] tab to display the window below.

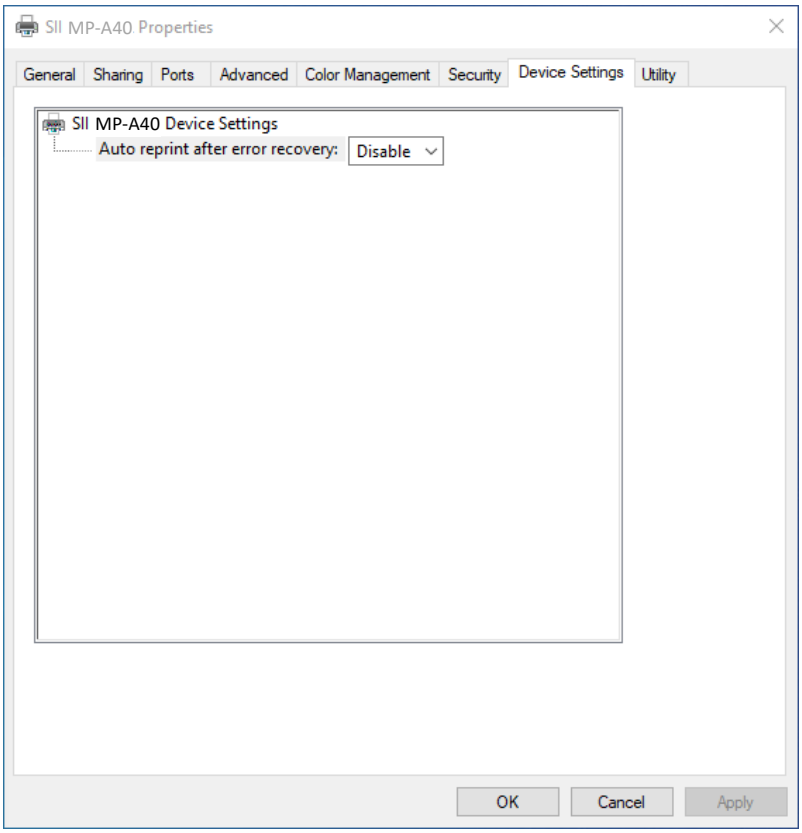


Figure 4-4 [Device Settings] window

Item	Description
Auto reprint after error recovery	By enabling this setting, if the printer becomes unable to print during printing, it will automatically reprint when the printer regains a printable status.

4.5 Tool

Displays the version information of the printer driver and the start buttons for various tools.
For details of the tools, see "SII Printer Setting Utility for Windows User's Guide".

Chapter 5 Tool

For the various tools, see "SII Printer Setting Utility for Windows User's Guide".

Chapter 6 Page Setup

6.1 Overview

This chapter describes the paper settings.

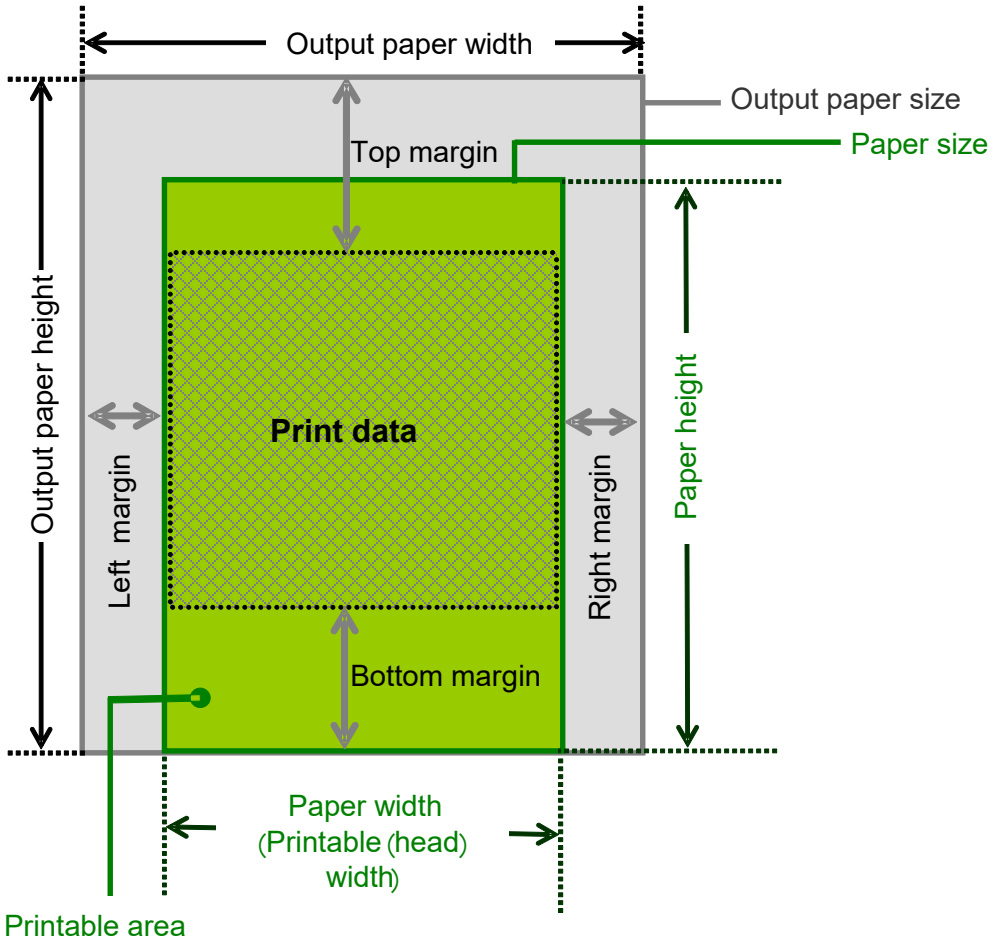
This section describes terms used in this chapter.

Definition	Description
Height	Vertical size when the paper feed direction is "portrait"
Width	Horizontal size when the paper feed direction is "portrait"
Output paper size	Paper (roll paper) size which is actually used for printing
Paper size	Printable area size specified on the printer driver
Standard paper	Paper sizes that are automatically registered on installation
User defined paper	Custom sizes that can be newly registered by users

Caution

- When specifying user defined paper, use the paper size (printable area size) instead of the output paper size.
- Standard paper other than A4 and Letter is named after the "width of the output paper", which does not match the paper size.

The following figure illustrates a print image.



*: The above figure is just a print image. The print end position varies depending on the setting in [Paper Feed to Cut Position] described in "3.3.6 Setting of Paper Feed".

6.2 Paper Size

The following table describes paper sizes available for each output paper width.

Output Paper Width	Paper Type	Paper Name	Paper Size (Range)	
			Width	Height
112 mm	Standard paper	112 × 297 mm	104 mm	297 mm
		112 × 1188 mm	104 mm	1188 mm
		A4	210 mm	297 mm
		Letter	215.9 mm	279.4 mm
	User defined paper	-	25.6 mm to 104 mm	30 mm to 3276 mm
105 mm	Standard paper	105 × 297 mm	97 mm	297 mm
		105 × 1188 mm	97 mm	1188 mm
		A4	210 mm	297 mm
		Letter	215.9 mm	279.4 mm
	User defined paper	-	25.6 mm to 97 mm	30 mm to 3276 mm
100 mm	Standard paper	100 × 297 mm	92 mm	297 mm
		100 × 1188 mm	92 mm	1188 mm
		A4	210 mm	297 mm
		Letter	215.9 mm	279.4 mm
	User defined paper	-	25.6 mm to 92 mm	30 mm to 3276 mm
80 mm	Standard paper	80 × 297 mm	72 mm	297 mm
		80 × 1188 mm	72 mm	1188 mm
		A4	210 mm	297 mm
		Letter	215.9 mm	279.4 mm
	User defined paper	-	25.6 mm to 72 mm	30 mm to 3276 mm

Specify paper sizes as follows.

- Paper width = Output paper width - Left margin - Right margin
- Paper height= Output paper height - Paper feed between head and tear bar

For details of the margin and the paper feed between head and tear bar, see "6.3 Margin".

6.3 Margin

This section describes the margin sizes.

The following descriptions assume that [Orientation] described in "3.1.1 Setting of Layout" is set to [Portrait] and [Direction] described in "3.3.5 General Settings" is set to [Front to Back].

The following margins in the paper width direction are as follows.

Left Margin

The 4 mm left margin appears.

Right Margin

The following right margin appears.

Right margin = Output paper width – Paper width – Left margin

Top Margin

The top margin is an area above the print data within the paper size plus the length of the paper feed between head and tear bar.

The followings are the actions by selecting [Paper Feed to Cut Position] in "3.3.6 Setting of Paper Feed".

- [Paper Feed to Cut Position] sets to "Enabled" :
  Feeds the paper to the cut position. It may be slightly different.
- [Paper Feed to Cut Position] sets to "Disabled" :
  Not feed the paper to the cut position. The lower part of the paper may be cut.

Bottom Margin

The bottom margin is an area below the print data within the paper size, which does not contain the print data.

However, when [Margin] in "3.3.5 General Settings" is set to minimize the bottom margin, the bottom margin may not exist within the printable area.

Caution

- ◆ When [Paper Feed to Cut Position] described in "3.3.6 Paper Feed Settings" is set to "Disabled", the print will be ended within the printable area by the length from head to tear bar.
- ◆ When the paper width setting on the printer and the width of the paper size on the printer driver do not match, the printed layout may corrupt.
- ◆ Due to the printer mechanism, the actual output paper height may be slightly different from the specified paper size.
- ◆ When using marked paper, available paper height is as follows.
  * Paper height < Distance between marks - 16 mm
- ◆ When using the marked paper, the maximum margin sizes on the printer side differ from the top and bottom margin sizes in "6.3 Margin".
- ◆ Print using logo, feed, paper feed to cut position, or custom command is not performed within the paper size and may run off the specified paper size.

Reference

- For details of registering a new paper size, see "6.4 How to Add a New Paper Size".

6.4 How to Add New Paper Size

This section shows an example of the procedure to add a user defined paper size.

1. Select the [Forms] tab in the [Print Server Properties] window.
2. Select the [Create a new form] check box.
3. Enter the paper name in the [Form name] field.
4. Select "Metric" for [Units:].
5. Type the width for the new paper size in the [Width] field in [Paper size].
6. Type the height for the new paper size in the [Height] field in [Paper size].
7. Click the [Save Form] button to save the form.

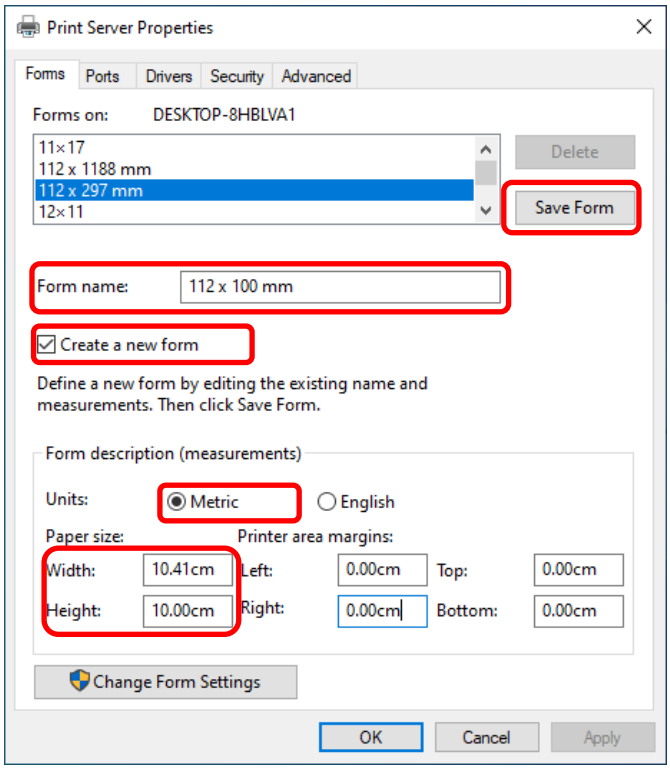


Figure 6-1 [Print Server Properties] Window

Caution

- Adding a user defined paper size requires logon to the computer with administrator privileges.
- When adding a user defined paper size, review [Paper Size (Range)] in "6.2 Paper Size". Among the paper sizes listed in the [Forms on:], only those within the size range specified in [Paper Size (Range)] in "6.2 Paper Size" are available for the printer driver.

Chapter 7 Font

7.1 Overview

This chapter describes the font printing function.

The following types of font can be handled by the printer driver.

- TrueType Font :Font installed in Windows.
- Device Font :Font installed in a printer.
- Barcode Font :Special font to print the barcode using the printer.
- 2D-Barcode Font :Special font to print the 2D-Barcode using the printer.
- Control Font :Special font to use the Printer command registered in advance.
- ControlA Font :Special font to use the Printer command registered by users.

Reference

- TrueType Font

  The TrueType font is available to change character decorations such as italic type and the font size flexibly. It also enables almost WYSIWYG print.

  The TrueType font is printed as image data. When a large amount of data is printed via the Bluetooth connection, the print may be delayed because the communication with the printer may take a long time.

Caution

◆ When using the IPD font, set the following settings:

- [Orientation] in "3.1.1 Setting of Layout" : "Portrait"
- [Direction] in "3.3.5 General Settings" : "Front to Back"
- [Reduction] in "3.3.5 General Settings" : "None"
- [Image] in "3.5.4 Setting of Watermark" : "None"

◆ Special fonts are not displayed as images in the preview and edit windows.

◆ When using special fonts, print results may exceed the specified paper size.

◆ A device font, barcode font, and 2D-Barcode font cannot be printed together in a line.

◆ A TrueType font and IPD font cannot be printed together in a line.

◆ An images and IPD font cannot be printed together in a line.

7.2 Device Font

A device font is a font set that is built into the printer. It can provide a print quality with full print performance of the printer. When using the serial connection, the device font can be printed faster than TrueType.

The Kanji code system differs depending on the used language environment.

Windows OS	System Locale	Kanji Code System
Japanese	Japanese (Japan)	Shift-JIS code
	Other than Japanese (Japan)	JIS code
Other than Japanese	Japanese (Japan)	Shift-JIS code
	Other than Japanese (Japan)	JIS code

The string encoding differs depending on the selection of [Device Font Settings] in the [Printing Setting Dialog] - [Font] tab.
When "Character Code Table" in [Device Font Settings] is set to the default, character string is encoded in the ANSI codepage currently valid in the system.
When "Character Code Table" in [Device Font Settings] is not set to the default, character string is encoded in the codepage selected in [Device Font Settings]. For details of the codepage, see "3.4.4 Setting of Device Font".

Caution

- When specifying italic for characters, it cannot be reflected to the print.
- When specifying underline for characters, position or line type of the underline is fixed because it is printed by the underline of the device font.

7.2.1 Selection of Type of Device Font

The type of device font is as follows.

Font Name	Font Size	Character Set	Description
IPD Font A*1	8.5 points	Western	24x12 Standard font
	17 points		24x12 Double height
IPD Font A Wide*1	8.5 points		24x12 Double width
	17 points		24x12 Double height, Double width
IPD Font B*1	5.5 points		16x8 Standard font
	11.5 points		16x8 Double height
IPD Font B Wide*1	5.5 points		16x8 Double width
	11.5 points		16x8 Double height, Double width
IPD Font A Japanese*2	8.5 points	Japanese	24x12 Standard font
	17 points		24x12 Double height
IPD Font A Wide Japanese*2	8.5 points		24x12 Double width
	17 points		24x12 Double height, Double width
IPD Font B Japanese*2	5.5 points		16x8 Standard font
	11.5 points		16x8 Double height
IPD Font B Wide Japanese*2	5.5 points		16x8 Double width
	11.5 points		16x8 Double height, Double width

*1: Not displayed in Japanese environment.
*2: Displayed in Japanese environment only.

7.2.2 Print of Device Font

The device font is available to print from a general application or by making a program.

7.3 Barcode Font

A barcode font is a Special font that prints barcodes by only specifying the font without generating barcodes on the application side.

Necessary to register the type and size of the barcode in [Printing Preferences] before using a barcode font. Available to register up to 10 types of barcode font (IPD Barcode1 to 10) in the printer driver. For the registration method, see "3.4.5 Setting of Barcode Font".

Caution

◆ When a barcode becomes wider than the print width due to the barcode setting or data setting, it cannot be printed correctly.

7.3.1 Selection of Type of Barcode Font

Font Names of the Barcode Font are as follows.

Font Name	Font Size	Character Set
IPD Barcode1	8.5 points	Western
IPD Barcode2		
IPD Barcode3		
IPD Barcode4		
IPD Barcode5		
IPD Barcode6		
IPD Barcode7		
IPD Barcode8		
IPD Barcode9		
IPD Barcode10		

7.3.2 Print of Barcode Font

The barcode font is available to print from a general application or by making a program.

The following table describes the input conditions of barcode font data. Input the available data in ASCII format.

Type	Characters	Available Data		Remarks
UPC-A	11 to 12 characters	'0' to '9'	(0x30 to 0x39)	-
UPC-E	11 to 12 characters	'0' to '9'	(0x30 to 0x39)	-
JAN13 (EAN13)	12 to 13 characters	'0' to '9'	(0x30 to 0x39)	-
JAN8 (EAN8)	7 to 8 characters	'0' to '9'	(0x30 to 0x39)	-
Code39	1 or more characters	'0' to '9'	(0x30 to 0x39)	The start and stop codes ('*') are automatically added.
		'A' to 'Z'	(0x41 to 0x54)	
		' '	(0x20)	
		'$'	(0x24)	
		'%'	(0x25)	
		'+'	(0x2B)	
		'-'	(0x2D)	
		'.'	(0x2E)	
		'/'	(0x2F)	
ITF	2 or more characters (even number only)	'0' to '9'	(0x30 to 0x39)	Specify an odd number of characters. Otherwise, the print may be improper.
CODABAR	1 or more characters	'0' to '9'	(0x30 to 0x39)	For details of setting start and stop codes ('A' to 'D'), see "3.4.5 Setting of Barcode Font".
		'$'	(0x24)	
		'+'	(0x2B)	
		'-'	(0x2D)	
		'.'	(0x2E)	
		'/'	(0x2F)	
		':'	(0x3A)	
CODE128	2 or more characters		(0x00 to 0x7F) *1 *2 *3	-
CODE93	1 or more characters		(0x00 to 0x7F) *2 *3	-
JAN13 (EAN13) add-on 2	12 to 13 + 2 characters	'0' to '9'	(0x30 to 0x39)	-
JAN13 (EAN13) add-on 5	12 to 13 + 5 characters	'0' to '9'	(0x30 to 0x39)	-
GS1 Databar Omni-directional	13 characters	'0' to '9'	(0x30 to 0x39)	Check digit is automatically calculated.
GS1 Databar Truncated	13 characters	'0' to '9'	(0x30 to 0x39)	Check digit is automatically calculated.
GS1 Databar Limited	13 characters	'0' to '9'	(0x30 to 0x39)	Check digit is automatically calculated.

Type	Characters	Available Data		Remarks
GS1 Databar Expanded[*5]	2 or more characters	' ' to '"'	(0x20 to 0x22)[*3]	-
		'%' to '?'	(0x25 to 0x3F)	
		'A' to 'Z'	(0x41 to 0x5A)	
		'_'	(0x5F)	
		'a' to 'z'	(0x61 to 0x7A)	
		'{'	(0x7B)[*4]	

*1: Available data depends on the CODE selection.
·CODE A: 0x00 to 0x5F
·CODE B: 0x20 to 0x7F
·CODE C: Two-digit number 00 to 99 (0x00 to 0x63)
To select CODE, FNC, or SHIFT, use the following special characters.

Code	CODE A	CODE B	CODE C
{S	SHIFT	SHIFT	SHIFT
{A	-	CODE A	CODE A
{B	CODE B	-	CODE B
{C	CODE C	CODE C	-
{1	FNC1	FNC1	FNC1
{2	FNC2	FNC2	FNC2
{3	FNC3	FNC3	FNC3
{4	FNC4	FNC4	FNC4
{{	'{'	'{'	-

*2: To use 0x00 to 0x1F and 0x7F, set [Hex Input] in "3.4.5 Setting of Barcode Font" to "Enabled" to enter codes.
*3: 0x20 is available only when [Hex Input] is enabled in "3.4.5 Setting of Barcode Font".
*4: Use '{' only for specifying FNC.
When specifying FNC1, enter '{' and '1' (0x7B and 0x31).
*5: For entering the valid values, refer to "MP-A40 SERIES THERMAL PRINTER TECHNICAL REFERENCE".

7.4 2D-Barcode Font

A 2D-Barcode font is a Special font that prints 2D-Barcodes by only specifying the font without generating 2D-Barcode images on the application side.

Necessary to register the type and size of the 2D-Barcode in [Printing Preferences] before using a 2D-Barcode font. Available to register up to five types of barcode font (IPD 2D-Barcode1 to IPD 2D-Barcode5) in the printer driver. For the registration method, see "3.4.6 Setting of 2D-Barcode Font".

Character string is encoded in the ANSI code page currently valid in the system.

Caution

◆ When a 2D-Barcode becomes wider than the print width due to the 2D-Barcode setting or data setting, it cannot be printed correctly.

7.4.1 Selection of Type of 2D-Barcode Font

Font Names of the 2D-Barcode Font are as follows.

Font Name	Font Size	Character Set
IPD 2D-Barcode1	8.5 points	Western/Japanese*1
IPD 2D-Barcode2		
IPD 2D-Barcode3		
IPD 2D-Barcode4		
IPD 2D-Barcode5		

*1: In environment other than Japanese, set the [Character Set] (Font Script) to "Western".
In Japanese environment, set the [Character Set] (Font Script) to "Japanese".

7.4.2 Print of 2D-Barcode Font

2D-Barcode font is available to print from a general application or by making a program.

For entering the valid values, refer to "MP-A40 SERIES THERMAL PRINTER TECHNICAL REFERENCE".

7.5 Control Font

A control font is a Special font that executes the Printer command assigned to fixed characters from a document.

7.5.1 Selection of Type of Control Font

Type of control font is as follows.

Font Name	Font Size	Character Set
IPD Control	8.5 points	Western

7.5.2 Use of Control Font

The control font can be used from a general application or by programming.

The following table lists the characters assigned for the control font and their actions.

Assigned Character	Action	Assigned Character	Action
5	HT	v	Character 90 degrees right rotate cancel
6	LF	w	Alignment left
7	CR	x	Alignment center
h	NV image 00 (30,30) print	y	Alignment right
i	NV image 01 (30,31) print	G	NV image 00 (30,30) Normal print
j	NV image 02 (30,32) print	H	NV image 01 (30,31) Normal print
k	NV image 03 (30,33) print	I	NV image 02 (30,32) Normal print
l	NV image 04 (30,34) print	J	NV image 03 (30,33) Normal print
m	Inversion (flip) printing specify	K	NV image 04 (30,34) Normal print
n	Inversion (flip) printing cancel	P	Paper feed to cut position
o	Reverse print specify	Q	Paper feed to cut position
p	Reverse print cancel	[	NV image 00 (30,30) Quad print
q	Underline specify	]	NV image 01 (30,31) Quad print
r	Underline cancel	^	NV image 02 (30,32) Quad print
s	Bold print specify	_	NV image 03 (30,33) Quad print
t	Bold print cancel	`	NV image 04 (30,34) Quad print
u	Character 90 degrees right rotate specify	[	NV image 00 (30,30) Quad print

・Keycodes of NV image enclosed in parenthesis are described in hexadecimal.

Caution

◆ Underline is not applied at 90 degrees rotation.

7.6 ControlA Font

ControlA font is a Special font that executes the Printer command assigned to characters in advance from a document. For the Printer command, refer to "MP-A40 SERIES THERMAL PRINTER TECHNICAL REFERENCE".

Necessary to register the Printer command to execute in [Printing Preferences] before using the ControlA font. Available to arbitrarily register the Printer command to characters from 0x20 to 0x7f in the printer driver. For the registration method, see "3.4.7 Setting of ControlA Font".

7.6.1 Selection of Type of ControlA Font

There is the following type of ControlA font.

Font Name	Font Size	Font Script
IPD ControlA	8.5 points	Western

7.6.2 Use of ControlA Font

The ControlA font can be used from a general application or by programming.