SII Printer Driver for Windows
User's Guide

Rev.01

[Products]

MP-B21L Series

MP-B30L Series

MP-B30 Series

MP-B20 Series

Seiko Instruments Inc.

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Introduction

This manual describes "SII Printer Driver for Windows" (hereinafter referred to as "printer driver") provided by Seiko Instruments Inc. (hereinafter referred to as "SII").

Notation in This Manual

The notation in this manual is described.

Operation and Display

In principle, this manual is written on the basis of the following conditions:

- Screenshots and display layouts of Windows 10
- Operating instructions with a mouse and a keyboard

Terms

This section describes terms used in this manual.

Term	Description
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 Folder	Folder displayed by the following operations: [Devices and Printers] folder by selecting [Control Panel] => [Hardware and Sound] => [Devices and Printer]
Print Server Properties	Properties displayed by the following operations: [Print Server Properties] folder 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]

Term	Description
Technical Reference	Technical References shown as follows: ・MP-B21L SERIES THERMAL PRINTER TECHNICAL REFERENCE ・MP-B30L SERIES THERMAL PRINTER TECHNICAL REFERENCE ・MP-B30 SERIES THERMAL PRINTER TECHNICAL REFERENCE ・MP-B20 SERIES THERMAL PRINTER TECHNICAL REFERENCE
Printer command	Instruction to control the printer, described in "Technical Reference"
User's Guide	User's Guides shown as follows: ・MP-B21L SERIES Thermal Printer USER'S GUIDE ・MP-B30L SERIES Thermal Printer USER'S GUIDE ・MP-B30 SERIES Thermal Printer USER'S GUIDE ・MP-B20 SERIES Thermal Printer USER'S GUIDE
Memory switch	Feature for [Function Settings] described in "User's guide"
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: Font installed in the printer ・ Barcode font: Special font for printing barcodes on the printer ・ 2D-Barcode font: Special font for printing two-dimensional barcodes on the ・ printer ・ Control font: Special font for using pre-registered printer commands ・ ControlA font: Special font for using printer commands registered by the user
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
Dot	A unit that configures the print Prints with dot density of 8 dots per 1 mm

*1: Integrated Printer Driver

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Appendix A Code Table A-1

Chapter 1 Overview

This chapter describes the overview of the printer driver.

1.1 Target Printers

The target products and driver name are as follows.

Printer	Default Driver Name
MP-B21L series	SII MP-B21L
MP-B30L series	SII MP-B30L
MP-B30 series	SII MP-B30
MP-B20 series	SII MP-B20

1.2 Printer Settings

For using the printer driver, set the memory switch of the printer as shown in the following [Value].

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

- **MP-B21L, MP-B30L series**

MS	Item	Value
1-1	Interface Selection (Interface)	0: USB*1 1: USB/Wireless*2
1-2	Mark/Gap Mode Selection (Mark/Gap Mode)	0: Enable*3 1: Disable
1-3 to 1-5	Command System Selection (Command System)	000B: ESC/POS
2–2	Realtime Command Selection (Realtime Command)	0: Enable
3	Print Width (Print Width)	Set the print width to the same value as "Paper Size / Range" – "Width" in "5.1 Paper Size".
9–1	Automatic Status Response Selection (Auto Status Back)	0: Enable 1: Disable*4
9–2	Initialized Response Selection (Init. Response)	0: Enable*5
26 to 27	Mark Detection Print Position Correction (Print Position Correction)	Set the same value as the "Value" of the memory switches MS 21 to 22 (Mark Detection Cut Position Correction) of the printer.

*1: Set this value to "USB" for USB connection.

*2: Set this value to "USB/Wireless" for Bluetooth connection or TCP/IP Connection.

*3: Set this value to "Enable" to active paper form feed by mark detection or gap detection.

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

*5: Set this value to "Enable" to get [Initialization Response] in the SDK.

• **MP-B30 series**

MS	Item	Value
1-1	Interface Selection (Interface)	0: USB[*1] 1: USB/Wireless[*2]
1-2	Mark Mode Selection (Mark Mode)	0: Enable[*3] 1: Disable
2–2	Realtime Command Selection (Realtime Command)	0: Enable
9–1	Automatic Status Response Selection (Auto Status Back)	0: Enable 1: Disable[*4]
9–2	Initialized Response Selection (Init. Response)	0: Enable[*5]

*1: Set this value to "USB" for USB connection.
*2: Set this value to "USB/Wireless" for Bluetooth connection or TCP/IP Connection.
*3: Set this value to "Enable" to active marked paper form feed.
Set this value to "Disable" not to active marked paper form feed.
*4: Set this value to "Enable" usually. However, when [Enable bidirectional support] check box described in "4.3 Ports" is unchecked, set this setting to "Disable".
*5: Set this value to "Enable" to get [Initialization Response] in the SDK.

• **MP-B20 series**

MS	Item	Value
1-1	Interface Selection (Interface)	0: USB 1: Wireless
3-1	Automatic Status Response Selection (Auto Status Back)	0: Enable 1: Disable[*1]
3-2	Initialized Response Selection (Init Response)	0: Enable[*2] 1: Disable[*1]
3-3	Realtime Command Selection (Realtime Command)	0: Enable

*1: Set this value to "Enable" usually. However, when [Enable bidirectional support] check box described in "4.3 Ports" is unchecked, set this setting to "Disable".
*2: Set this value to "Enable" to get [Initialization Response] in the SDK.

Caution

◆ When the printer is set to other than above, it may prevent the printer driver from working properly.

1.3 Limitation

The printer driver has the following limitations.

- The printer driver is not guaranteed against abnormal printing including garbled characters in sleep mode or hibernation mode, which is a part of the Windows standard function.
- When the printer is disabled in the printer command "Select Peripheral Device", all functions in the printer driver cannot be used.
- For using reduction function, the dedicated print processor (SII POS Print Processor) needs to be selected. Check the selected state of the dedicated print processor from [Advanced...] tab in the printer properties.
- When the 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.
- When the same IP address is specified by multiple computers for installing the printer driver when using TCP/IP connection, the tool and the SDK are not available on multiple computers simultaneously.
  Also, when the printing is canceled, it may not work properly.

Chapter 2 Installation

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

Chapter 3 Printing Preferences

This chapter describes the printing preferences.

The printing preferences can be reviewed and changed from various tabs in the [Printing Preferences] window.

To display the [Printing Preferences] window, follow the steps below.

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

The following tabs are displayed in the [Printing Preferences] window.

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

Caution

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

Reference

- The watermark is not supported in MP-B20.

Details of the windows are described in subsequent sections.

3.1 Layout

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

3.1.1 Layout Settings

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

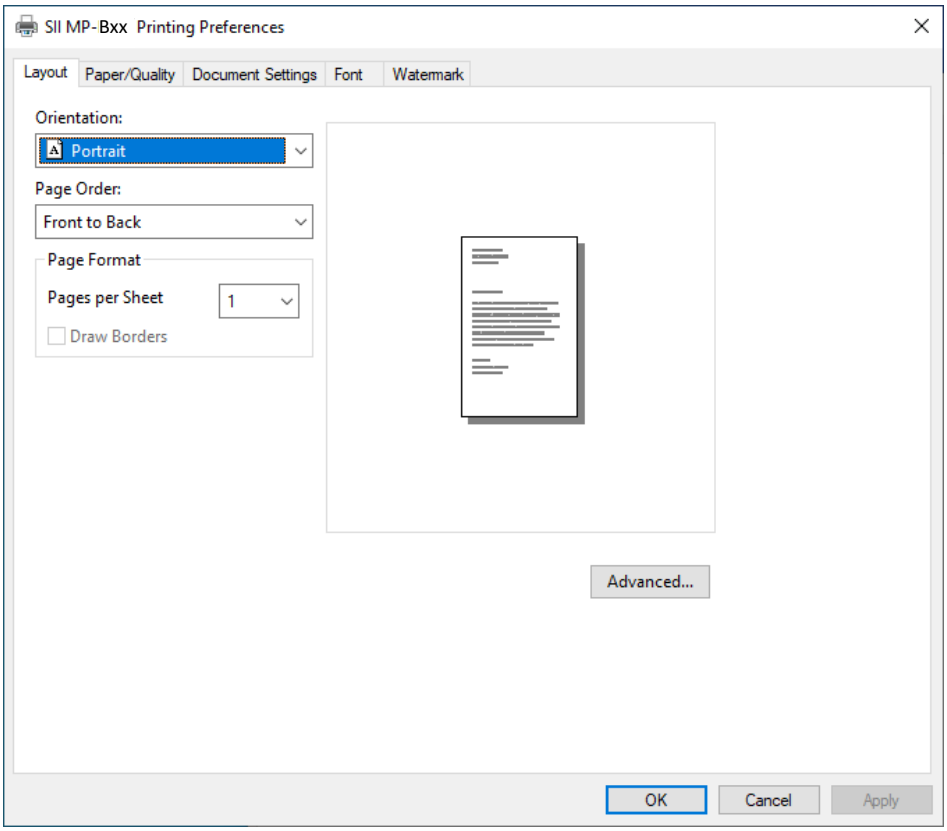


Figure 3-1 [Layout] Window (Example)

Item	Description (" ": Default)
Orientation	Selects the print direction. ・ Portrait ・ Landscape When selecting "Landscape", the IPD font cannot be used.
Page Order	Selects the order of pages to print. ・ Front to Back ・ Back to Front
Page Format	Sets the number of pages per sheet.
Pages per Sheet	Selects 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".

3.2 Paper/Quality

Sets the print mode.

3.2.1 Paper/Quality Settings

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

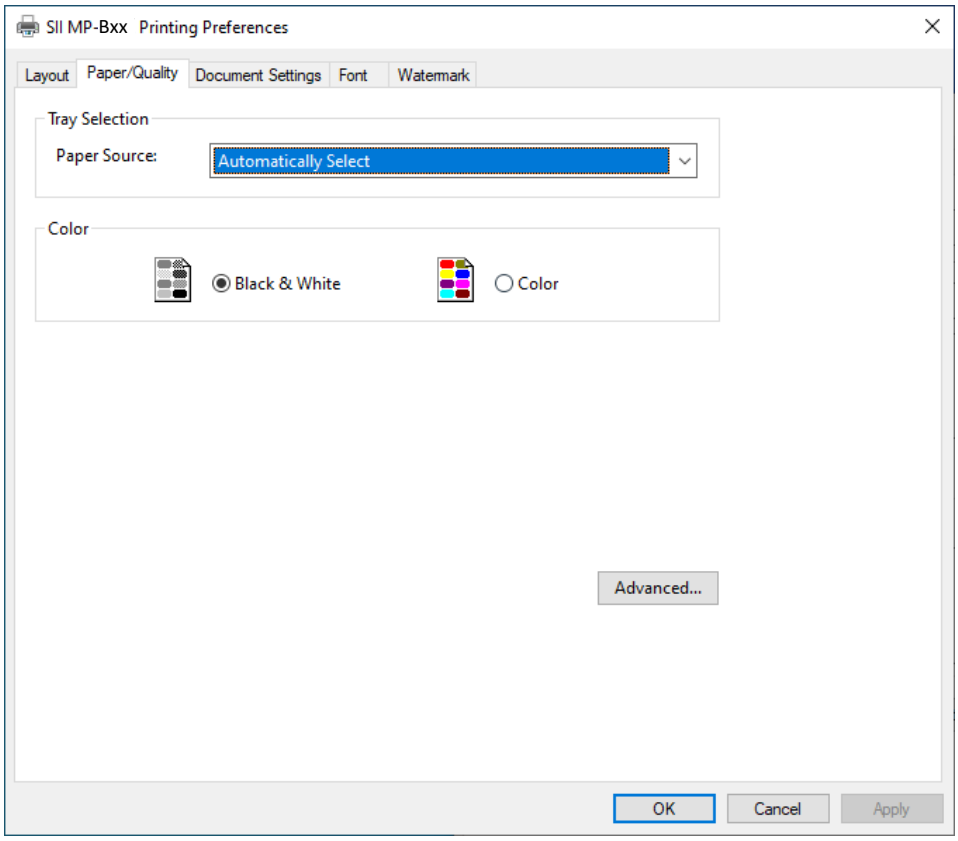


Figure 3-2 [Paper/Quality] Window (Example)

Item	Description (" ": Default)
Tray Selection	Sets the paper source.
Paper Source	Fixed to "Automatically Select". ・ Automatically Select
Color	Selects 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 Document Settings

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

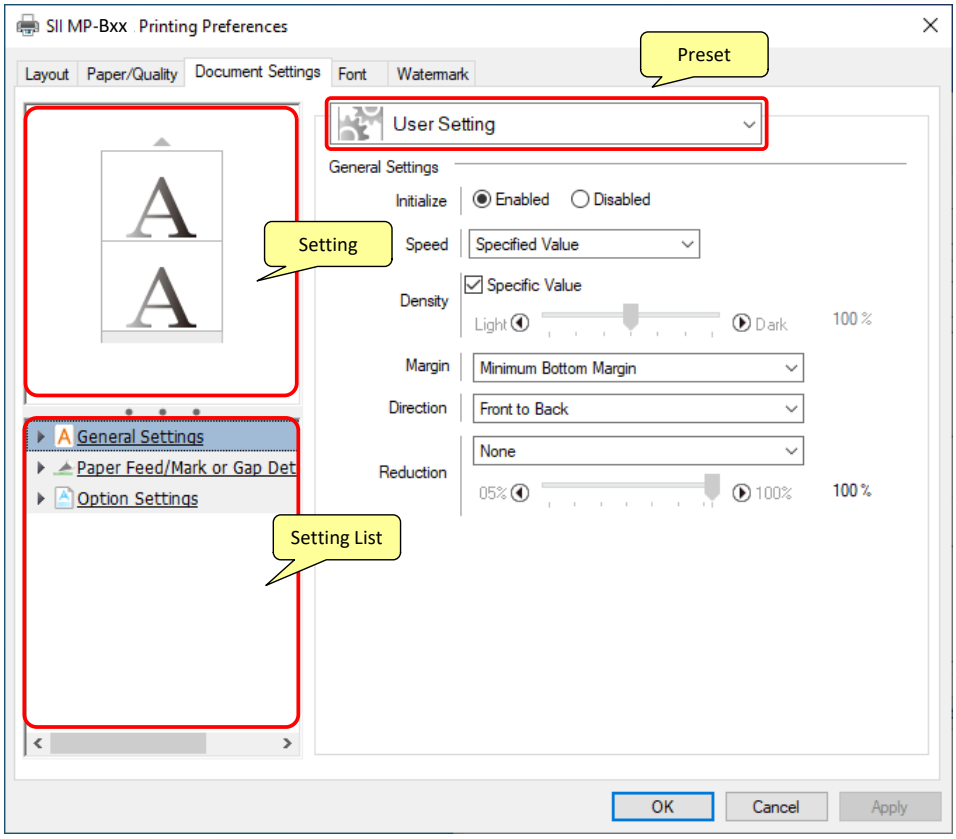


Figure 3-3 [Document Settings] Window

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 the all document setting functions by category. When a category name is selected, 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.

<table>
<tr><th>Item</th><th>Description (" ": Default)</th></tr>
<tr><td>Preset</td><td>Sets previously registered settings at a time for a specific usage.
<table>
<tr><th>Printer</th><th>Setting</th></tr>
<tr><td>MP-B21L</td><td>・ 58 mm Receipt Setting
・ 58 mm Mark or Gap Form Feed Setting
・ 58 mm Mark or Gap Form Feed Setting (Label)
・ 50.8 mm Receipt Setting
・ 50.8 mm Mark or Gap Form Feed Setting
・ 50.8 mm Mark or Gap Form Feed Setting (Label)
・ 25.4 mm Receipt Setting
・ 25.4 mm Mark or Gap Form Feed Setting
・ 25.4 mm Mark or Gap Form Feed Setting (Label)
・ A4->58 mm Reduction Setting
・ A4->50.8 mm Reduction Setting
・ A4->25.4 mm Reduction Setting
・ User Setting*1</td></tr>
<tr><td>MP-B30L</td><td>・ 80 mm Receipt Setting
・ 80 mm Mark or Gap Form Feed Setting
・ 80 mm Mark or Gap Form Feed Setting (Label)
・ 76.2 mm Receipt Setting
・ 76.2 mm Mark or Gap Form Feed Setting
・ 76.2 mm Mark or Gap Form Feed Setting (Label)
・ 58 mm Receipt Setting
・ 58 mm Mark or Gap Form Feed Setting
・ 58 mm Mark or Gap Form Feed Setting (Label)
・ A4->80 mm Reduction Setting
・ A4->76.2 mm Reduction Setting
・ A4->58 mm Reduction Setting
・ User Setting*1</td></tr>
<tr><td>MP-B30</td><td>・ 80 mm Receipt Setting
・ 80 mm Marked Paper Setting
・ A4->80 mm Reduction Setting
・ User Setting*1</td></tr>
<tr><td>MP-B20</td><td>・ 58 mm Receipt Setting
・ A4->58 mm Reduction Setting
・ User Setting*1</td></tr>
</table>
For details of the settings of each "Preset", see "3.3.4 Use of Preset".</td></tr>
</table>

*1: This setting value just after installation is set to the receipt setting value except for the paper size. The paper size depends on the language environment in use. See "3.6.1 Advanced Options Settings" for details of the paper size.

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	Sets basic items such as initialization.
MP-B21L, MP-B30L Paper Feed / Mark or Gap Detection Settings	Sets paper feed to the cutting position, also sets black mark or gap detecting operation.
MP-B30 Paper Feed / Marked Paper Settings	Sets paper feed to the cutting position, also sets black mark detecting operation.
MP-B20 Paper Feed Settings	Sets parameters of paper feed to the paper cut position.
Option Settings	Sets 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 canceled at that time and changed to "User Setting".
When changing "Preset" settings, 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 the setting contents.

- **MP-B21L series**

Preset Type	Item	Description
58 mm Receipt Setting 50.8 mm Receipt Setting 25.4 mm Receipt Setting	Advanced Options	
	Paper Size	58 mm (48 x 3276 mm) 50.8 mm (46 x 3276 mm) 25.4 mm (21 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	Enabled
	Form Feed	None
	Form Feed Position Correct	0 dot
58 mm Mark or Gap Form Feed Setting 50.8 mm Mark or Gap Form Feed Setting 25.4 mm Mark or Gap Form Feed Setting	Advanced Options	
	Paper Size	58 mm (48 x 3276 mm) 50.8 mm (46 x 3276 mm) 25.4 mm (21 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	None
	Form Feed	Each Page
	Form Feed Position Correct	0 dot

Preset Type	Item	Description
58 mm Mark or Gap Form Feed Setting (Label) 50.8 mm Mark or Gap Form Feed Setting (Label) 25.4 mm Mark or Gap Form Feed Setting (Label)	Advanced Options	
	Paper Size	58 mm (46 x 3276 mm) 50.8 mm (44 x 3276 mm) 25.4 mm (21 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	None
	Form Feed	Each Page
	Form Feed Position Correct	0 dot
A4->58 mm Reduction Setting A4->50.8 mm Reduction Setting A4->25.4 mm Reduction Setting	Advanced Options	
	Paper Size	A4
	Document Settings	
	General Settings	
	Reduction	Fit 58 mm Width Fit 50.8 mm Width Fit 25.4 mm Width
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	Enabled
	Form Feed	None
	Form Feed Position Correct	0 dot

- **MP-B30L series**

Preset Type	Item	Description
80 mm Receipt Setting 76.2 mm Receipt Setting 58 mm Receipt Setting	Advanced Options	
	Paper Size	80 mm (72 x 3276 mm) 76.2 mm (72 x 3276 mm) 58 mm (54 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	Enabled
	Form Feed	None
	Form Feed Position Correct	0 dot

Preset Type	Item	Description
80 mm Mark or Gap Form Feed Setting 76.2 mm Mark or Gap Form Feed Setting 58 mm Mark or Gap Form Feed Setting	Advanced Options	
	Paper Size	80 mm (72 x 3276 mm) 76.2 mm (72 x 3276 mm) 58 mm (54 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	None
	Form Feed	Each Page
	Form Feed Position Correct	0 dot
80 mm Mark or Gap Form Feed Setting (Label) 76.2 mm Mark or Gap Form Feed Setting (Label) 58 mm Mark or Gap Form Feed Setting (Label)	Advanced Options	
	Paper Size	80 mm (72 x 3276 mm) 76.2 mm (70 x 3276 mm) 58 mm (52 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	None
	Form Feed	Each Page
	Form Feed Position Correct	0 dot
A4->80 mm Reduction Setting A4->76.2 mm Reduction Setting A4->58 mm Reduction Setting	Advanced Options	
	Paper Size	A4
	Document Settings	
	General Settings	
	Reduction	Fit 80 mm Width Fit 76.2 mm Width Fit 58 mm Width
	Paper Feed/Mark or Gap Detection Setting	
	Feed to Cut Position	Enabled
	Form Feed	None
	Form Feed Position Correct	0 dot

- **MP-B30 series**

Preset Type	Item	Description
80 mm Receipt Setting	Advanced Options	
	Paper Size	80 mm (72 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Marked Paper Settings	
	Feed to Cut Position	Enabled
	Marked Paper Form Feed	None
	Form Feed Position Correct	0 dot
80 mm Marked Paper Setting	Advanced Options	
	Paper Size	80 mm (72 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed/Marked Paper Settings	
	Feed to Cut Position	None
	Marked Paper Form Feed	Each Page
	Form Feed Position Correct	0 dot
A4->80 mm Reduction Setting	Advanced Options	
	Paper Size	A4
	Document Settings	
	General Settings	
	Reduction	Fit 80 mm Width
	Paper Feed/Marked Paper Settings	
	Feed to Cut Position	Enabled
	Marked Paper Form Feed	None
	Form Feed Position Correct	0 dot

• **MP-B20 series**

Preset Type	Item	Description
58 mm Receipt Setting	Advanced Options	
	Paper size	58 mm (48 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Feed Settings	
	Paper feed to cut position	Enabled
A4->58 mm Reduction Setting	Advanced Options	
	Paper size	A4
	Document Settings	
	General Settings	
	Reduction	Fit 58 mm Width
	Paper Feed Settings	
	Paper feed to cut position	Enabled

The following table describes the common [Preset] settings.

Type	Item	Description
Common Settings	Layout	
	Orientation	Portrait
	Document Settings	
	General Settings	
	Initialize	Enabled
	Speed	Specified Value
	Density	Other than MP-B20: Specified Value MP-B20: 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.

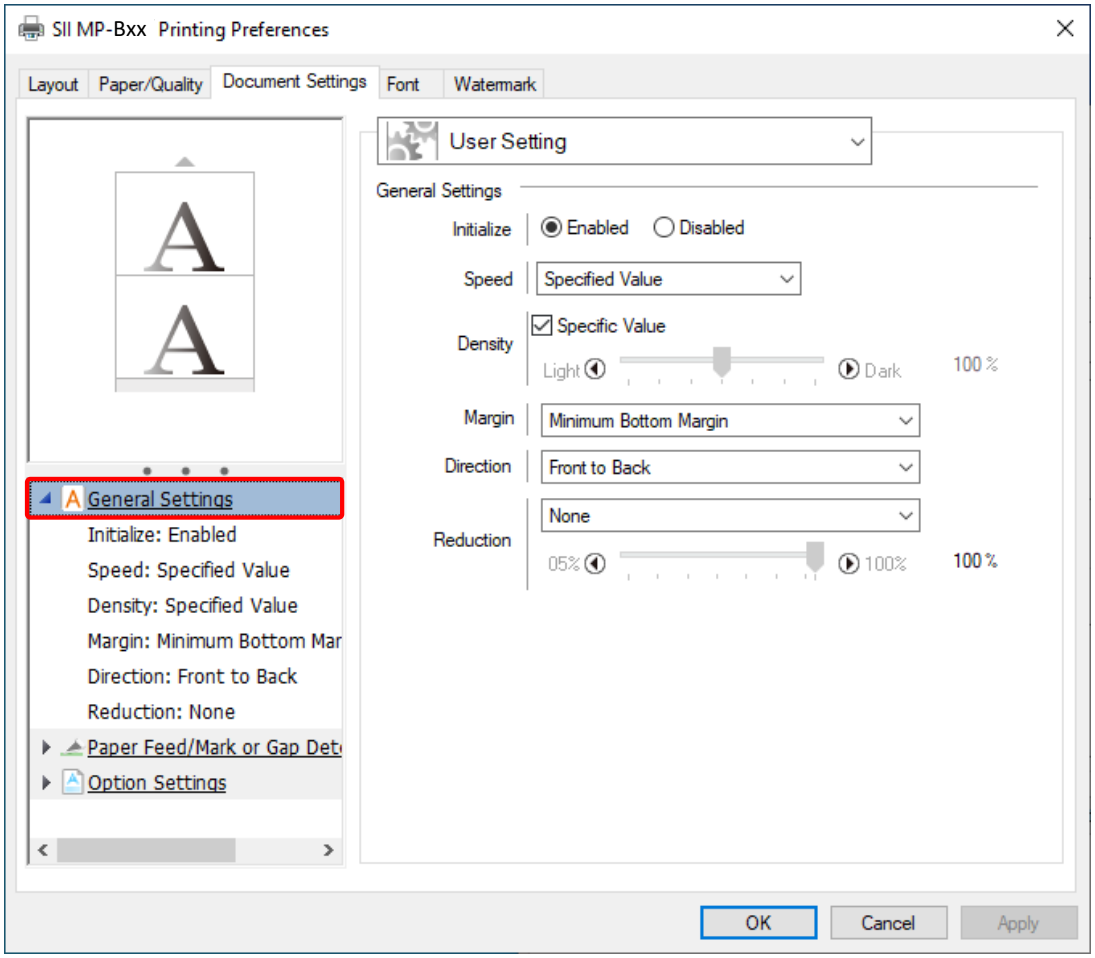


Figure 3-4 [General Settings] Window (Example)

Caution

◆ The items supported by the printer are displayed.

Item	Description ("　": Default)
General Settings	Sets basic items such as initialization.
Initialize	Selects whether or not to initialize the printer before printing. ・ Enabled ・ Disabled
Speed	Selects for the print speed. ・ Specified Value*1 ・ Standard*2 ・ Quality 1*2 ・ Quality 2*2
Density	Sets the print density (Unit: %). ・ Specified Value*1 ・ 70 to 130 (100*3)

<table>
<tr><th colspan="2">Item</th><th>Description (" ": Default)</th></tr>
<tr><td></td><td>Margin</td><td>Selects for the margin.
・ Minimum Margin*3*4
・ Minimum Top Margin
・ Minimum Bottom Margin*4
・ Maximum Margin</td></tr>
<tr><td></td><td>Direction</td><td>Selects for the paper feed direction.
・ Front to Back
・ Back to Front
When selecting "Back to Front", the IPD font cannot be used.</td></tr>
<tr><td></td><td>Reduction</td><td>Sets the reduction print.
<table>
<tr><th>Printer</th><th>Setting</th></tr>
<tr><td>MP-B21L</td><td>・ None
・ Fit 58 mm Width
・ Fit 58 mm Label Width
・ Fit 50.8 mm Width
・ Fit 50.8 mm Label Width
・ Fit 25.4 mm Label Width
・ Scale [5 to 100] (Unit: %)</td></tr>
<tr><td>MP-B30L</td><td>・ None
・ Fit 80 mm Width
・ Fit 80 mm Label Width
・ Fit 76.2 mm Width
・ Fit 76.2 mm Label Width
・ Fit 58 mm Width
・ Fit 58 mm Label Width
・ Scale [20 to 100] (Unit: %)</td></tr>
<tr><td>MP-B30</td><td>・ None
・ Fit 80 mm Width
・ Scale [20 to 100] (Unit: %)</td></tr>
<tr><td>MP-B20</td><td>・ None
・ Fit 58 mm Width
・ Scale [20 to 100] (Unit: %)</td></tr>
</table>
When selecting other than "None", the IPD font cannot be used.</td></tr>
</table>

*1: Follows the printer settings. Not supported in MP-B20.
*2: For details of the print speed, see "User's Guide".
*3: The default of MP-B20.
*4: MP-B21L:
When the print size is less than 25 mm, paper is fed to be 25 mm.
MP-B30L, MP-B30, MP-B20:
When the print size is less than 30 mm, paper is fed to be 30 mm.

Reference

- Direction
  When setting [Direction] to "Back to Front", available to rotate the print data by 180°.
- Margin
  When setting [Margin], the margin amount is changed.

	To Save Margin from Print Start to First Print Data	To Save Margin from Last Print Data to Paper Cut Position
Minimum Margin	✓	✓
Minimum Top Margin	✓	-
Minimum Bottom Margin	-	✓
Maximum Margin	-	-

For more information on margin, see "5.2 Margin".

3.3.6 Paper Feed / Mark or Gap Detection / Marked Paper Settings

Select [Paper Feed/Mark or Gap Detection/Marked Paper Settings] in the "Setting List" to display the window below.

MP-B21L, MP-B30L: Paper feed / mark or gap detection settings

MP-B30: Paper feed / marked paper settings

MP-B20: Paper feed settings

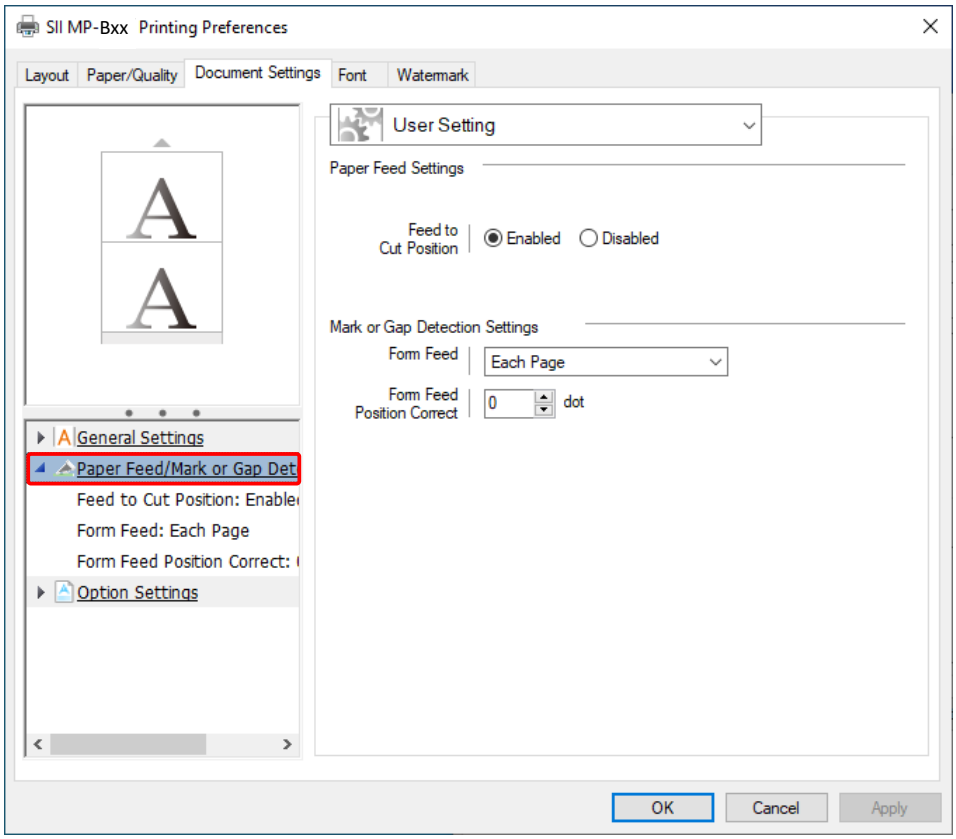


Figure 3-5 [Paper Feed/Mark or Gap Detection Settings] Window (Example)

Caution

◆ The items supported by the printer are displayed.

Item	Description (" ": Default)
Paper Feed Settings	Sets parameters of the paper feed to the cutting position.
Feed to Cut Position	Selects whether or not to feed to the cutting position. ・ Enabled ・ Disabled

Item	Description (" ": Default)
MP-B21L, MP-B30L Mark or Gap Detection Settings	Sets black mark or gap detecting operation.
Form Feed	Sets black mark or gap detecting operation. ・ Disabled ・ Each Page ・ Each Job
Form Feed Position Correct	Sets feed position correction (unit: dot). MP-B21L ・ -28 to 255 (0) MP-B30L ・ 0 to 255 (0)
MP-B30 Marked Paper Settings	Sets black mark detecting operation for using marked paper.
Marked Paper Form Feed	Sets black mark detecting operation. ・ Disabled ・ Each Page ・ Each Job
Form Feed Position Correct	Sets feed position correction (unit: dot). ・ 0 to 255 (0)

3.3.7 Option Settings

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

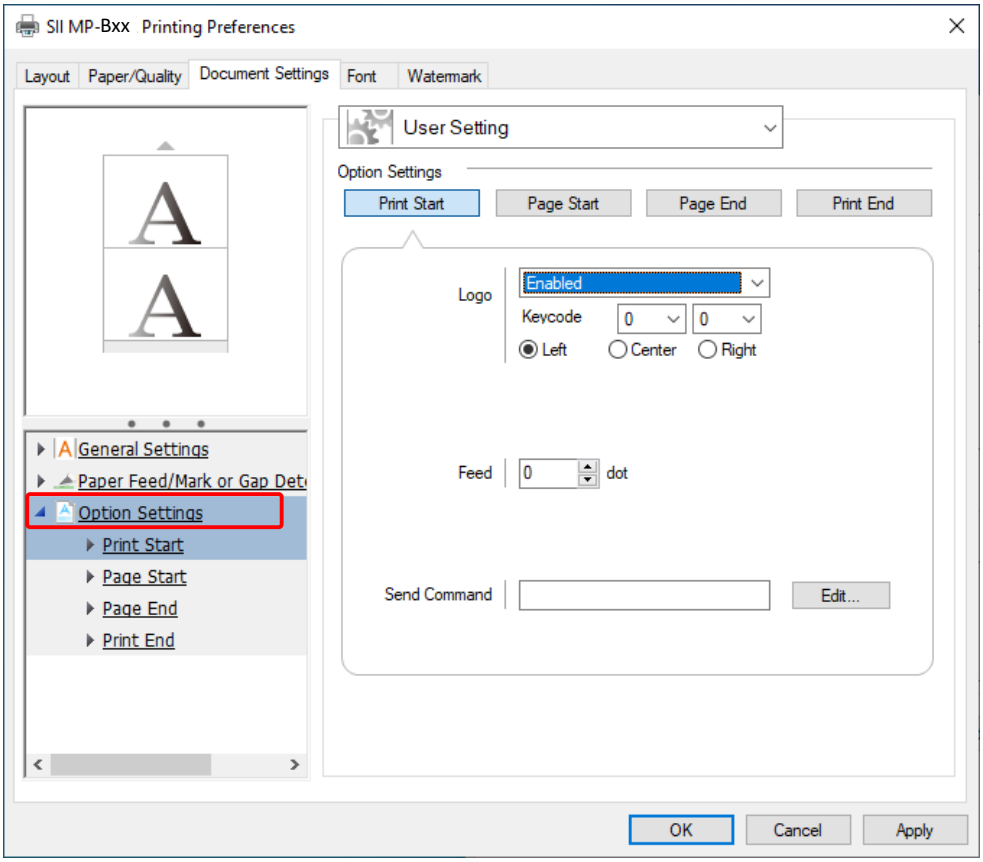


Figure 3-6 [Option Settings] Window

Item	Description ("　": Default)
Option Settings	Sets parameters about the logo, paper feeding and the printer command sending.
Print Start Page Start Page End Print End	Sets the operation at specific timing.
Logo	Sets parameters about the logo.
Enable/disable logo	Selects whether or not to show the logo. ・ Disabled ・ Enabled
Keycode	Sets the keycode of the logo. MP-B21L, MP-B30L, MP-B30 ・ " "(0x20, 0x20) to "99" (0x39, 0x39) ("00" (0x30, 0x30)) MP-B20 ・ " "(0x30, 0x30) to "99" (0x39, 0x39) ("00" (0x30, 0x30))
Logo Position	Selects for the position to print the logo. ・ Left ・ Center ・ Right

Item			Description (" ": Default)
	Feed		Sets the length of paper feed (Unit: dot). MP-B21L ・ -28 to 255 (0) MP-B30L, MP-B30, MP-B20 ・ 0 to 255 (0)
	Send Command		Sets the printer command to send.
		Command data	Displays the printer command to send. To input data, use the binary editor which is displayed by clicking the [Edit...] button.
		Edit...	Inputs the printer command by the binary editor. The input printer command 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".

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 "3.3.5 NV Image" in "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 [Utility]

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

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

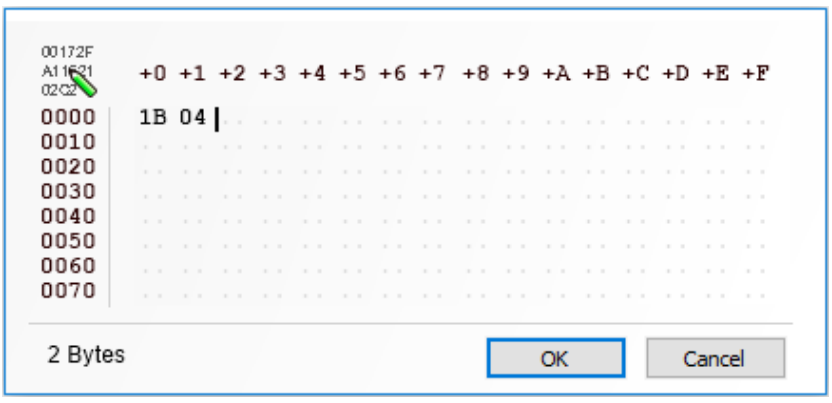


Figure 3-7 [Binary editor] Window

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 Layout Settings" : "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 Watermark Settings" : "NV Image"

Reference

- For details of the IPD font, see "Chapter 6 Font".

3.4.1 Font Settings

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

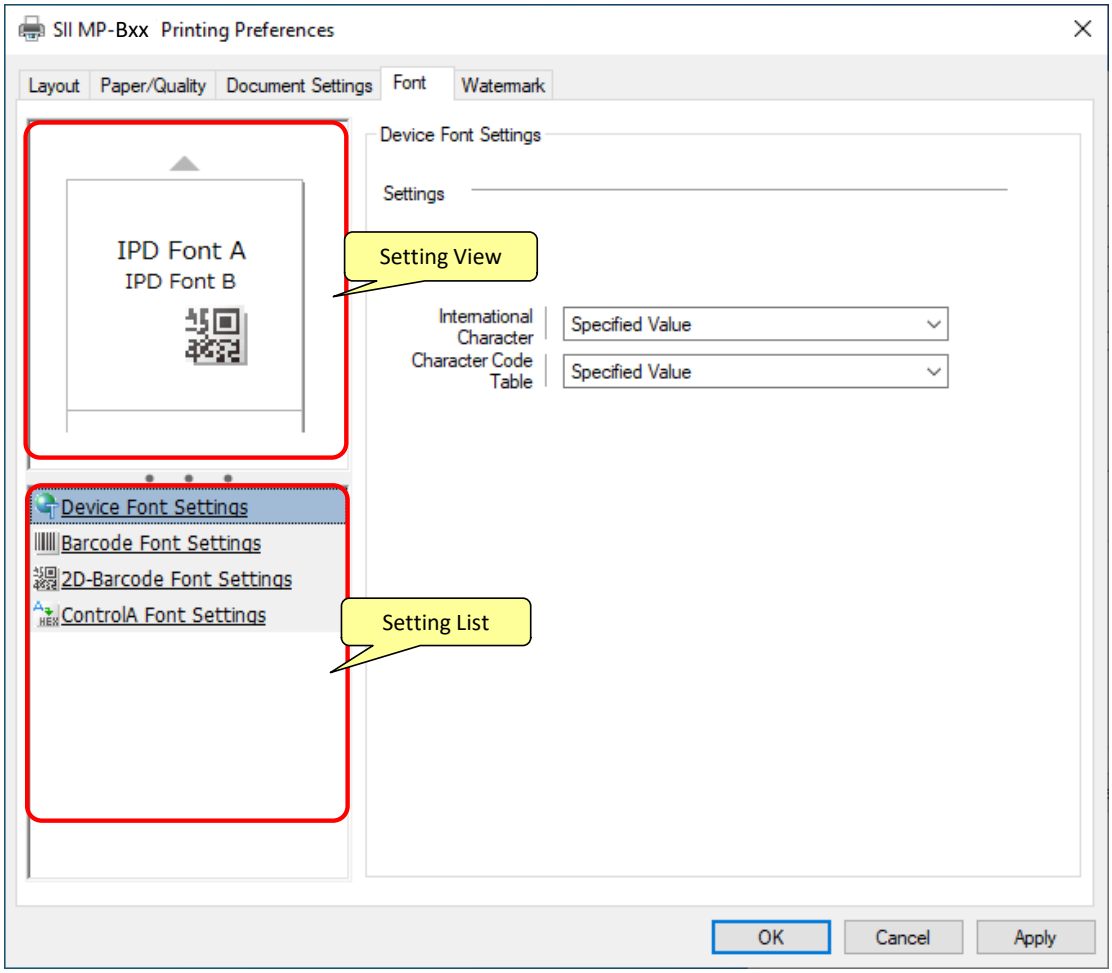
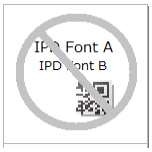


Figure 3-8 [Font] Window

Item	Description
Setting View	Displays whether the IPD font can be used or not 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	Sets the International Character and Character Code Table for the device font.
Barcode Font Settings	Sets the type, barcode size, and others for the Barcode font.
2D-Barcode Font Settings	Sets the type, barcode size, and others for the 2D-Barcode font.
ControlA Font Settings	Sets parameters about the printer command assigned to the ControlA font.

Setting items for each category are described in subsequent sections.

3.4.4 Device Font Settings

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

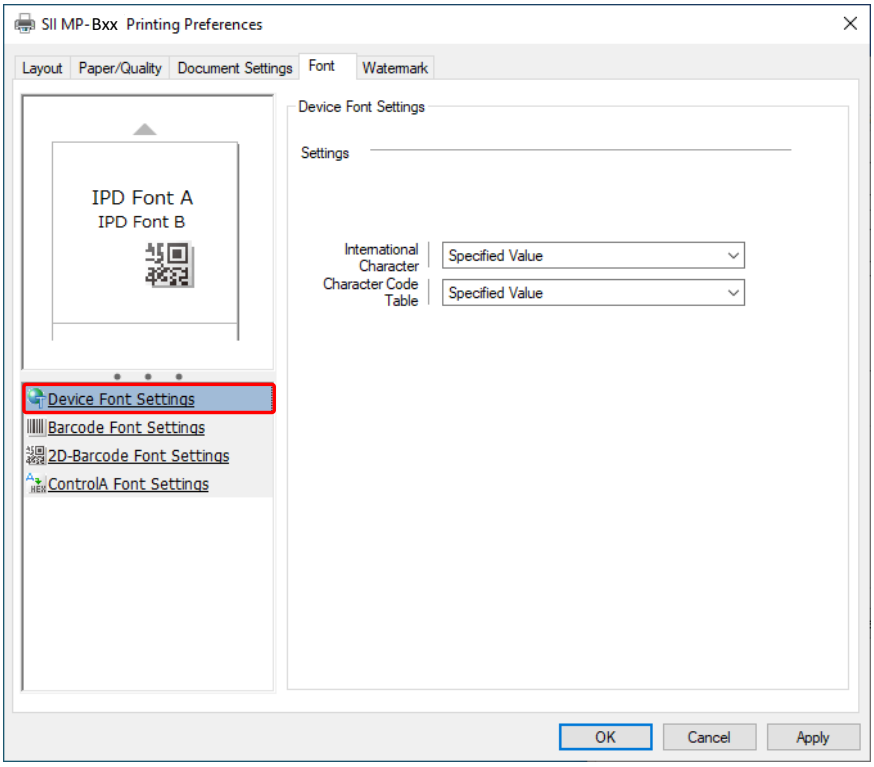


Figure 3-9 [Device Font Settings] Window (Example)

Caution

◆ The items supported by the printer are displayed.

Item	Description (" ": Default)
Settings	Sets parameters about the device font.
International Character	Selects for the international character. ・ Specified Value*1 ・ USA*2 ・ 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	Selects for the character code table. ・ Specified Value*1 ・ USA, Standard Europe (Code Page 437) *2 ・ 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

*1: The default of other than MP-B20. Follows the printer settings. Not supported in MP-B20.
*2: The default of MP-B20.

3.4.5 Barcode Font Settings

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

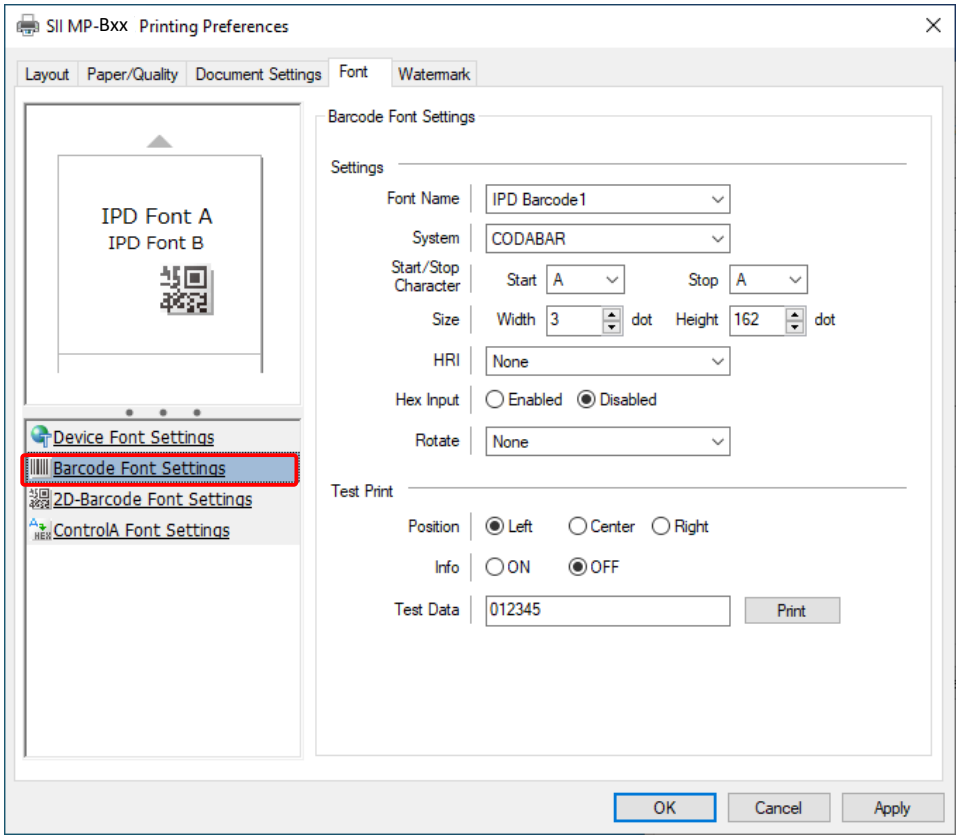


Figure 3-10 [Barcode Font Settings] Window

Reference

- The contents displayed in [Settings] varies depending on the barcode to select.

Item	Description (" ": Default)
Settings	Sets parameters about the barcode font.
Font Name*1	Selects for the font name. ・ IPD Barcode1 ・ IPD Barcode2 ・ IPD Barcode3 ・ IPD Barcode4 ・ IPD Barcode5 ・ IPD Barcode6 ・ IPD Barcode7 ・ IPD Barcode8 ・ IPD Barcode9 ・ IPD Barcode10

<table>
<tr><th colspan="3">Item</th><th>Description (" ": Default)</th></tr>
<tr><td></td><td colspan="2">System</td><td>Selects for the system of the barcode.
・ UPC-A*2
・ UPC-E*3
・ JAN13 (EAN13)*4
・ JAN8 (EAN8)*5
・ Code39*6
・ ITF*7
・ CODABAR*8
・ CODE128*9
・ CODE93*10
・ JAN13 (EAN13) add-on 2*11
・ JAN13 (EAN13) add-on 5
・ Customer Bar Code*12
・ GS1 Databar Omni-directional
・ GS1 Databar Truncated
・ GS1 Databar Limited
・ GS1 Databar Expanded</td></tr>
<tr><td></td><td colspan="2">Start/Stop Character</td><td>Sets the start character and stop character of "CODABAR".</td></tr>
<tr><td></td><td></td><td>Start</td><td>Selects for the start character of "CODABAR".
・ A
・ B
・ C
・ D</td></tr>
<tr><td></td><td></td><td>Stop</td><td>Selects for the stop character of "CODABAR".
・ A
・ B
・ C
・ D</td></tr>
<tr><td></td><td colspan="2">Size</td><td>Sets the barcode size.</td></tr>
<tr><td></td><td></td><td>Width</td><td>Sets the narrow element width or module width of the barcode in dots.
MP-B21L, MP-B30L, MP-B30
・ 2 to 6 (3)
MP-B20
・ 2 to 6 (2)</td></tr>
<tr><td></td><td></td><td>Height</td><td>Sets the height of the barcode in dots.
・ 1 to 255 (162)
However, regarding the following barcodes, the settable range depends on the [Width] selection.
When the [Height] value is specified less than the minimum value, the value is automatically changed to the minimum value.
➢ GS1 Databar Omni-directional
➢ GS1 Databar Truncated
➢ GS1 Databar Limited
➢ GS1 Databar Expanded
<table>
<tr><th>[System]</th><th>[Width]</th><th>Range of [Height]</th></tr>
<tr><td rowspan="5">GS1 Databar Omni-directional</td><td>2</td><td>66 to 255</td></tr>
<tr><td>3</td><td>99 to 255</td></tr>
<tr><td>4</td><td>132 to 255</td></tr>
<tr><td>5</td><td>165 to 255</td></tr>
<tr><td>6</td><td>198 to 255</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Item</th><th>Description (" ": Default)</th></tr>
<tr><td>Height</td><td>
<table>
<tr><th>[System]</th><th>[Width]</th><th>Range of [Height]</th></tr>
<tr><td rowspan="5">GS1 Databar Truncated</td><td>2</td><td>26 to 255</td></tr>
<tr><td>3</td><td>39 to 255</td></tr>
<tr><td>4</td><td>52 to 255</td></tr>
<tr><td>5</td><td>65 to 255</td></tr>
<tr><td>6</td><td>78 to 255</td></tr>
<tr><td rowspan="5">GS1 Databar Limited</td><td>2</td><td>20 to 255</td></tr>
<tr><td>3</td><td>30 to 255</td></tr>
<tr><td>4</td><td>40 to 255</td></tr>
<tr><td>5</td><td>50 to 255</td></tr>
<tr><td>6</td><td>60 to 255</td></tr>
<tr><td rowspan="5">GS1 Databar Expanded</td><td>2</td><td>68 to 255</td></tr>
<tr><td>3</td><td>102 to 255</td></tr>
<tr><td>4</td><td>136 to 255</td></tr>
<tr><td>5</td><td>170 to 255</td></tr>
<tr><td>6</td><td>204 to 255</td></tr>
</table>
</td></tr>
<tr><td>Point</td><td>Selects the bar configuration of the "Custer Bar Code" in points.
・ 4 to 11.5 (6)
The following table describes the bar configuration by points.
<table>
<tr><th rowspan="2">Point</th><th colspan="5">Configuration (mm)</th></tr>
<tr><th>Long Bar</th><th>Timing Bar</th><th>Bar Pitch</th><th>Bar Width</th><th>Bar Space</th></tr>
<tr><td>4 to 5</td><td>1.500 (12 dots)</td><td>0.500 (4 dots)</td><td>0.500 (4 dots)</td><td>0.250 (2 dots)</td><td>0.250 (2 dots)</td></tr>
<tr><td>5.5 to 6</td><td>1.875 (15 dots)</td><td>0.625 (5 dots)</td><td>0.625 (5 dots)</td><td>0.375 (3 dots)</td><td>0.250 (2 dots)</td></tr>
<tr><td>6.5 to 7</td><td>2.250 (18 dots)</td><td>0.750 (6 dots)</td><td>0.750 (6 dots)</td><td>0.375 (3 dots)</td><td>0.375 (3 dots)</td></tr>
<tr><td>7.5 to 8</td><td>2.625 (21 dots)</td><td>0.875 (7 dots)</td><td>0.875 (7 dots)</td><td>0.500 (4 dots)</td><td>0.375 (3 dots)</td></tr>
<tr><td>8.5 to 9</td><td>3.000 (24 dots)</td><td>1.000 (8 dots)</td><td>1.000 (8 dots)</td><td>0.500 (4 dots)</td><td>0.500 (4 dots)</td></tr>
<tr><td>9.5 to 10</td><td>3.375 (27 dots)</td><td>1.125 (9 dots)</td><td>1.125 (9 dots)</td><td>0.625 (5 dots)</td><td>0.500 (4 dots)</td></tr>
<tr><td>10.5 to 11.5</td><td>3.750 (30 dots)</td><td>1.250 (10 dots)</td><td>1.250 (10 dots)</td><td>0.625 (5 dots)</td><td>0.625 (5 dots)</td></tr>
</table>
</td></tr>
<tr><td>HRI</td><td>Selects for 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)</td></tr>
<tr><td>Hex Input</td><td>Select [Enabled] when the barcode font data or [Test Data] is entered in hexadecimal.*13
・ Enabled
・ Disabled</td></tr>
</table>

Item	Description (" ": Default)
Rotate	Selects for the rotation angle of the barcode at printing. ・ None ・ 90 degrees to right ・ 180 degrees ・ 90 degrees to left
Test Print	Sets parameters about the test print.
Position	Selects for the position of the barcode. ・ Left ・ Center ・ Right
Info	Selects whether or not to append the information in the [Settings] to the test print. ・ ON ・ OFF
Test Data	Used to input data for test print. Up to 64 characters can be entered, and only 1-byte character is valid.
Print	Prints the barcode with the input settings and [Test Data]. Not available when the [Test Data] is blank.

*1: The barcode system displayed as the default varies depending on the selected [Font Name].
The defaults of items from [System] are the defaults corresponding to the selected [Font Name].
*2: The default when "IPD Barcode1" is selected in [Font Name].
*3: The default when "IPD Barcode2" is selected in [Font Name].
*4: The default when "IPD Barcode3" is selected in [Font Name].
*5: The default when "IPD Barcode4" is selected in [Font Name].
*6: The default when "IPD Barcode5" is selected in [Font Name].
*7: The default when "IPD Barcode6" is selected in [Font Name].
*8: The default when "IPD Barcode7" is selected in [Font Name].
*9: The default when "IPD Barcode8" is selected in [Font Name].
*10: The default when "IPD Barcode9" is selected in [Font Name].
*11: The default when "IPD Barcode10" is selected in [Font Name].
*12: Supported only by MP-B21L.
*13: There are 2 input formats of barcode font data.
・For the barcode font data other than "CODE C" of CODE128:
Input Example: barcode font data (012345)
When [Hex Input] is "Disabled":012345
When [Hex Input] is "Enabled": 303132333435
・For "CODE C" of CODE128:
When [HEX Input] is "Disabled": Select the code corresponding to the character string to be input from [Code] in "Table A-1 CODE128 Code Set", and then, input the character string corresponding to the code, referring to "Table A-3 Character Code".
When [HEX Input] is "Enabled": Input the data from [Code] in "Table A-1 CODE128 Code Set".

3.4.6 2D-Barcode Font Settings

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

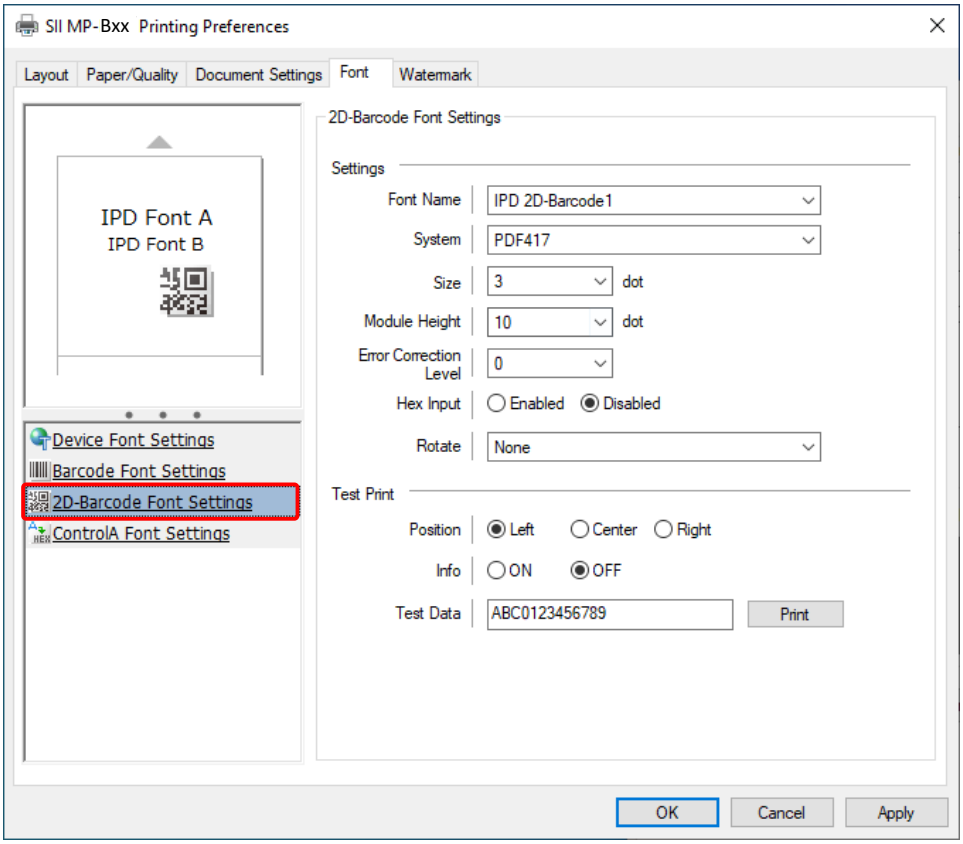


Figure 3-11 [2D-Barcode Font Settings] Window

Caution

◆ The items supported by the printer are displayed.

Reference

- The contents displayed in [Settings] varies depending on the barcode to select.

Item	Description (" ": Default)
Settings	Sets parameters about the 2D-Barcode font.
Font Name*1	Selects for the font name. ・ IPD 2D-Barcode1 ・ IPD 2D-Barcode2 ・ IPD 2D-Barcode3 ・ IPD 2D-Barcode4 ・ IPD 2D-Barcode5

Item	Description (" ": Default)
System	Selects for the system of the 2D-Barcode. ・ QR Code Model-2[*2] ・ PDF417[*3] ・ Data Matrix[*4] ・ Maxi Code[*5] ・ Aztec Code[*6] ・ GS1 Databar Stacked[*7] ・ GS1 Databar Stacked Omni-directional ・ GS1 Databar Expanded Stacked
Size[*8]	Sets 1 module size in dots. ・ 2 to 16[*9] (6) ・ 2 to 8[*10] (3)
Module Height	Sets the module height in dots for "PDF417". ・ 2 to 127 (10) Sets the module height in dots for "GS1 Databar Stacked Omni-directional". ・ 33 to 255 (33)
Error Correction Level	Selects the error correction level for "QR Code Model-2". ・ L ・ M ・ Q ・ H Selects the error correction level for "PDF417". ・ 0 to 8 (0) Selects the error correction level for "Aztec Code". ・ Recommend (23%) ・ 5 to 95 (5 to 95%)
Mode	Selects for mode of "Maxi Code". ・ Mode 2 ・ Mode 3 ・ Mode 4 ・ Mode 5 Selects for mode of "Aztec Code". ・ Full-range ・ Compact
Number of Layers	Specify the number of layers for "Aztec Code". ・ Auto ・ 1 to 4 (Compact) ・ 4 to 32 (Full-range)

Item	Description (" ": Default)
Module	Selects the number of modules for "Data Matrix". ・ Auto ・ 10x10 ・ 12x12 ・ 14x14 ・ 16x16 ・ 18x18 ・ 20x20 ・ 22x22 ・ 24x24 ・ 26x26 ・ 32x32 ・ 36x36 ・ 40x40 ・ 44x44 ・ 48x48 ・ 52x52 ・ 64x64 ・ 72x72 ・ 80x80 ・ 88x88 ・ 96x96 ・ 104x104 ・ 120x120 ・ 132x132 ・ 144x144 ・ 8x18 ・ 8x32 ・ 12x26 ・ 12x36 ・ 16x36 ・ 16x48
Segment	Sets the number of segments for "GS1 Databar Expanded Stacked". ・ 2 to 20
Hex Input	Select [Enabled] when the barcode font data or [Test Data] is entered in hexadecimal.*11 ・ Enabled ・ Disabled
Rotate	Selects for the rotation angle of the barcode at printing. ・ None ・ 90 degrees to right ・ 180 degrees ・ 90 degrees to left

Item		Description ("Left": Default)
Test Print		Sets parameters about the test print.
	Position	Selects for the position of the 2D-Barcode. ・ Left ・ Center ・ Right
	Info	Selects whether or not to append the information in the [Settings] to the test print. ・ ON ・ OFF
	Test Data	Used to input data for test print. Both 1-byte character and 2-byte character can be entered up to 64 characters.*11
	Print	Prints the 2D-Barcode with the input settings and [Test Data]. Not available when the [Test Data] is blank.

*1: The barcode system displayed as the default varies depending on the selected [Font Name].
The defaults of items from [System] are the defaults corresponding to the selected [Font Name].
*2: The default when "IPD 2D-Barcode1" is selected in [Font Name].
*3: The default when "IPD 2D-Barcode2" is selected in [Font Name].
*4: The default when "IPD 2D-Barcode3" is selected in [Font Name].
*5: The default when "IPD 2D-Barcode4" is selected in [Font Name].
*6: Supported only by MP-B21L and MP-B30L series.
*7: The default when "IPD 2D-Barcode5" is selected in [Font Name].
*8: Displayed only when any of 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
*9: The range only when any of the following is selected in [System].
・ QR Code Model-2
・ Data Matrix
・ Aztec Code
・ GS1 Databar Stacked
・ GS1 Databar Stacked Omni-directional
・ GS1 Databar Expanded Stacked
*10: The range only when "PDF417" is selected in [System].
*11: Input formats of barcode font data are as follows.
Input Example: barcode font data (012345)
When [Hex Input] is "Disabled": 012345
When [Hex Input] is "Enabled": 303132333435

3.4.7 ControlA Font Settings

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

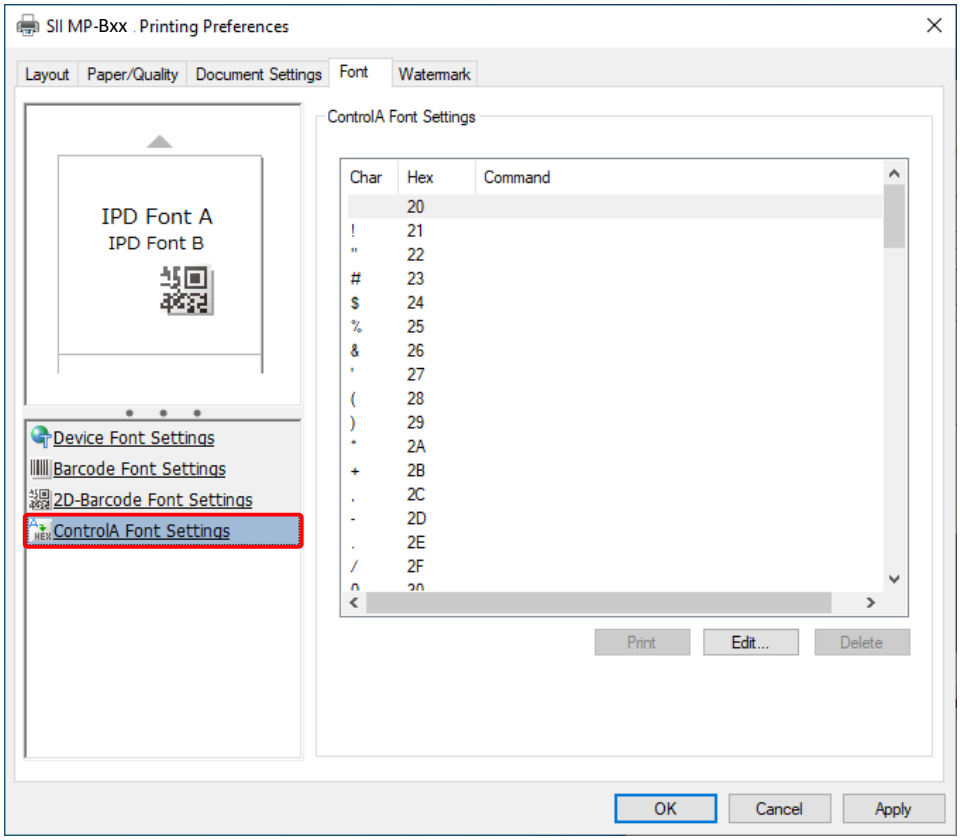


Figure 3-12 [ControlA Font Settings] Window

Item	Description
Char	Displays characters to assign the printer command.
Hex	Displays [Char] in hexadecimal.
Command	Displays the set printer command. To input the printer command, use the binary editor displayed by clicking the [Edit...] button.
Print	Executes the printer command selected in the list. Not available when [Command] in the selected list is blank.
Edit...	Inputs the printer command by the binary editor.*2 The input printer command 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 in the selected list.*1 Not available when [Command] in the selected list is blank.

*1: Not available from the [Printing Preferences] window started when printing from an application. When the operation is necessary, 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 "3.3.5 NV Image" in "SII Printer Setting Utility for Windows User's Guide".

Caution

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

Reference

- The watermark is not supported in MP-B20.

3.5.1 Watermark

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

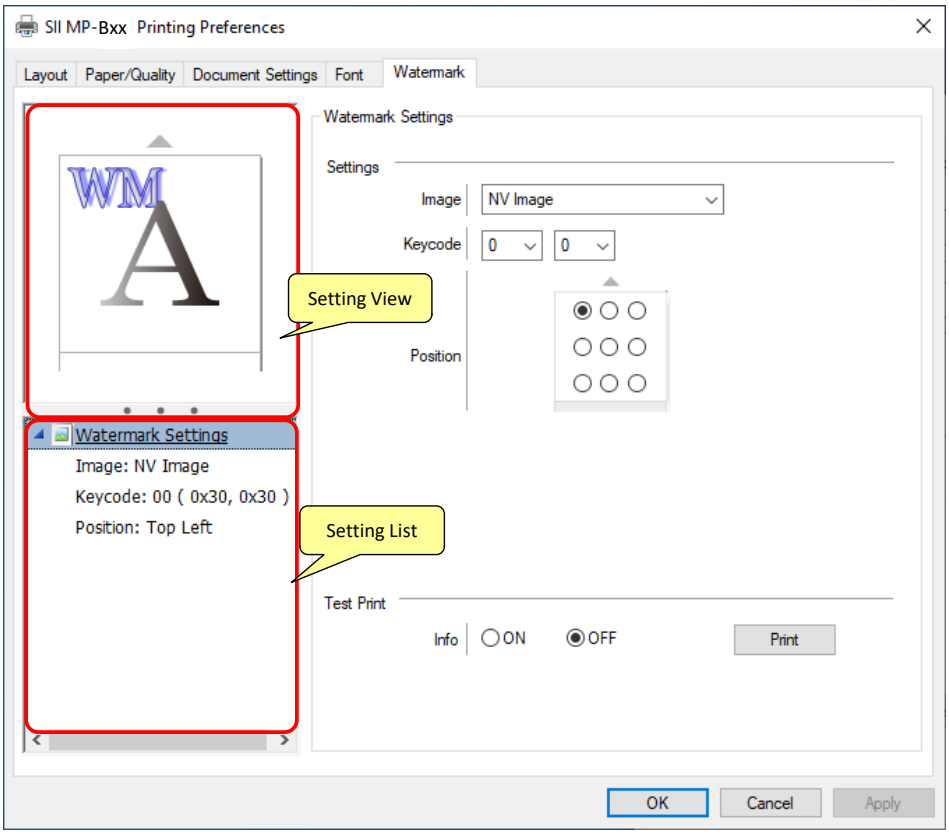


Figure 3-13 [Watermark] Window

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 a category name is selected, 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	Sets parameters about the watermark.

The watermark settings are described in subsequent sections.

3.5.4 Watermark Settings

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

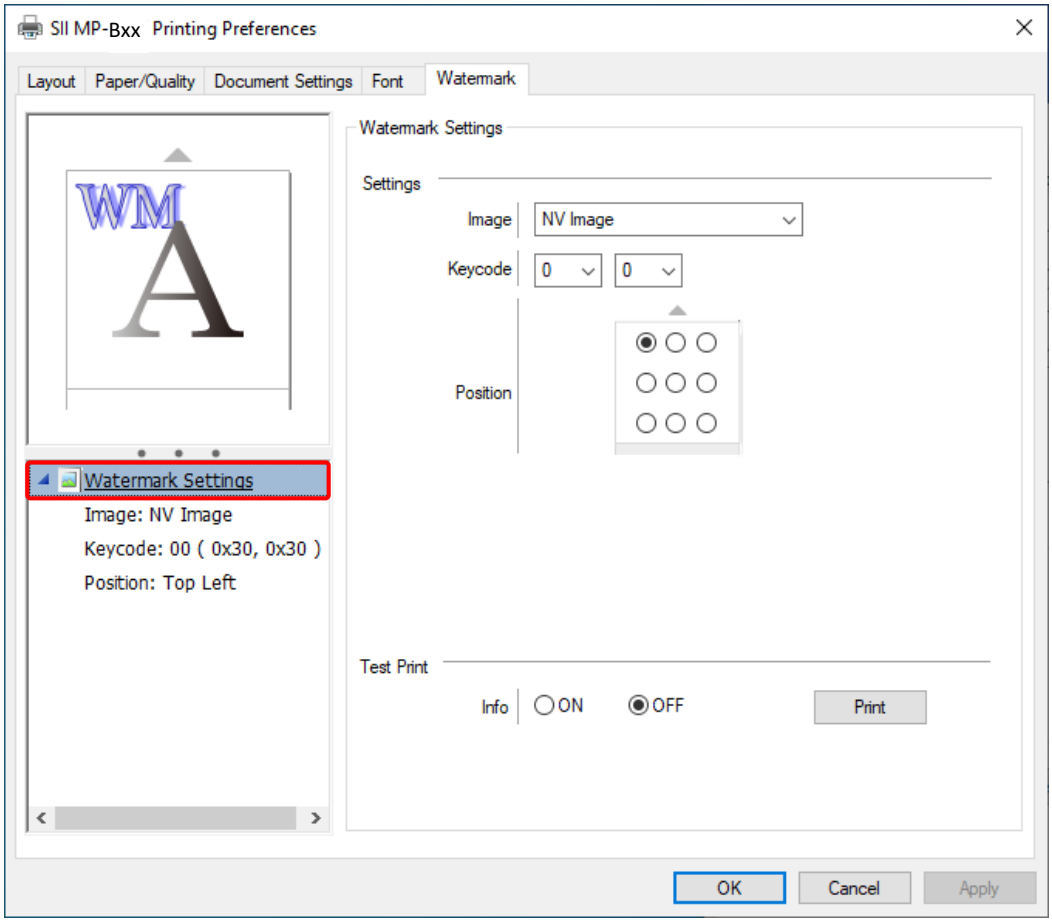


Figure 3-14 [Watermark Settings] Window

Item		Description ("　": Default)
Settings		Sets parameters about the watermark.
	Image	Sets the type of the image used as the watermark.*1 ・ None ・ NV Image
	Keycode	Selects the keycode of the image used as the watermark.*2 ・ " " (0x20, 0x20) to "99" (0x39, 0x39) ("00" (0x30, 0x30))
	Position	Selects the position of the watermark.*2 ・ Top Left ・ Top Center ・ Top Right ・ Left ・ Center ・ Right ・ Bottom Left ・ Bottom Center ・ Bottom Right

Item		Description (" ": Default)
Test Print		Sets parameters about the test print.*2
	Info	Selects whether or not to append the information in the [Settings] to the test print. ・ ON ・ OFF
	Print	Prints the watermark with the input 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 NV Image registration, see "3.3.5 NV Image" in "SII Printer Setting Utility for Windows User's Guide".
2. Select "NV Image" for [Image] in the [Watermark Settings] window of [Printing Preferences].
3. Select 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 Advanced Options Settings

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

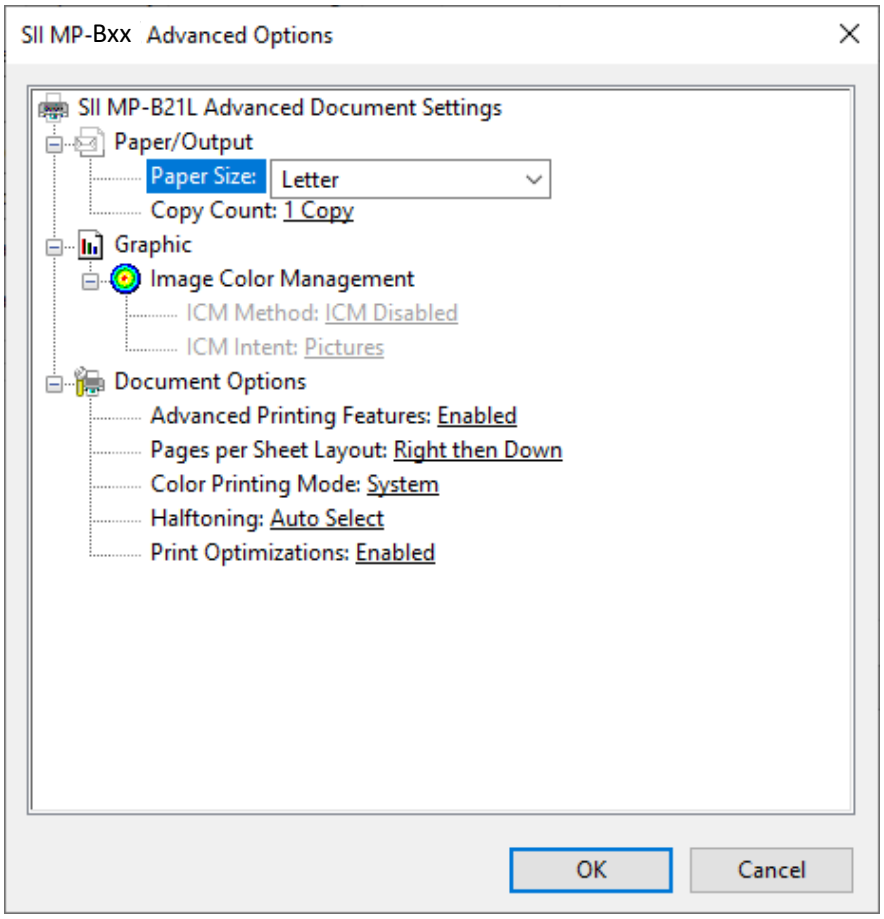


Figure 3-15 [Advanced Options] Window

<table>
<tr><th>Item</th><th>Description (" ": Default)</th></tr>
<tr><td>Paper/Output</td><td>Sets the paper size and the number of copies.</td></tr>
<tr><td>Paper Size</td><td>Selects for the paper size to use.*1
<table>
<tr><th>Printer</th><th>Setting</th></tr>
<tr><td>MP-B21L</td><td>・ 58 mm (48 x 3276mm)
・ 58 mm (48 x 297mm)
・ 58 mm (46 x 3276mm)
・ 58 mm (46 x 297mm)
・ 50.8 mm (46 x 3276mm)
・ 50.8 mm (46 x 297mm)
・ 50.8 mm (44 x 3276mm)
・ 50.8 mm (44 x 297mm)
・ 25.4 mm (21 x 3276mm)
・ 25.4 mm (21 x 297mm)
・ A4*2
・ Letter*3</td></tr>
<tr><td>MP-B30L</td><td>・ 80 mm (72 x 3276mm)
・ 80 mm (72 x 297mm)
・ 76.2 mm (72 x 3276mm)
・ 76.2 mm (72 x 297mm)
・ 76.2 mm (70 x 3276mm)
・ 76.2 mm (70 x 297mm)
・ 58 mm (54 x 3276mm)
・ 58 mm (54 x 297mm)
・ 58 mm (52 x 3276mm)
・ 58 mm (52 x 297mm)
・ A4*2
・ Letter*3</td></tr>
<tr><td>MP-B30</td><td>・ 80 mm (72 x 3276mm)
・ 80 mm (72 x 297mm)
・ A4*2
・ Letter*3</td></tr>
<tr><td>MP-B20</td><td>・ 58 mm (48 x 3276mm)
・ A4*2
・ Letter*3</td></tr>
</table></td></tr>
<tr><td>Copy Count</td><td>Enters the number of copies to print (Unit: Copy).
・ 1 to 9999</td></tr>
<tr><td>Graphic</td><td>Sets the ICM method and intent. Available only when selecting "Color" for [Color] in "3.2 Paper/Quality".</td></tr>
<tr><td>ICM Method</td><td>Selects for the ICM method.
・ ICM Disabled
・ ICM Handled by Host System
・ ICM Handled by Printer</td></tr>
<tr><td>ICM Intent</td><td>Selects for the ICM intent.
・ Graphics
・ Pictures
・ Proof
・ Match</td></tr>
</table>

Item		Description (" ": Default)
Document Options		Sets the document options.
	Advanced Printing Features	Selects for the advanced printing features. ・ Enabled ・ Disabled
	Pages per Sheet Layout	Selects for the page layout in a sheet. ・ Right then Down ・ Down then Right ・ Left then Down ・ Down then Left
	Color Printing Mode	Selects for the color print mode. ・ System ・ Driver This selection works in conjunction with the [Color] setting in "3.2 Paper/Quality".*4
	Halftoning	Selects for the halftoning. ・ Auto Select ・ Super Cell ・ Dither 2x2 ・ Dither 4x4 ・ Dither 6x6 ・ Dither 8x8 When selecting "Color" for [Color] in "3.2 Paper/Quality", only "Auto Select" can be selected.
	Print Optimizations	Selects for the print optimizations. ・ Enabled ・ Disabled

*1: User defined paper can be registered and set. For details of how to register a paper size, see "5.3 How to Add a User Defined Paper".

*2: The default in the Japanese environment.

*3: The default in the environment other than Japanese.

*4: 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, see "3.2 Paper/Quality".

Chapter 4 Printer Properties

This chapter describes the printer properties.

The printer properties can be reviewed and changed from various tabs in the [Printer Properties] window.

To display the [Printer Properties] window, follow the steps below.

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

The following tabs are displayed in [Printer Properties] window.

- [General] tab : Performs the general management of the printer driver and prints the test page.
- [Sharing] tab : Sets the shared printers.
- [Ports] tab : Sets the output ports.
- [Device Settings] tab : Sets the devices.
- [Utility] tab : Displays the version information of the printer driver and the start buttons for various utilities.

Caution

◆ For the tabs other than the above displayed in the [Printer Properties] window, keep the default settings at installation.

Details of the windows are described in subsequent sections

4.1 General

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

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

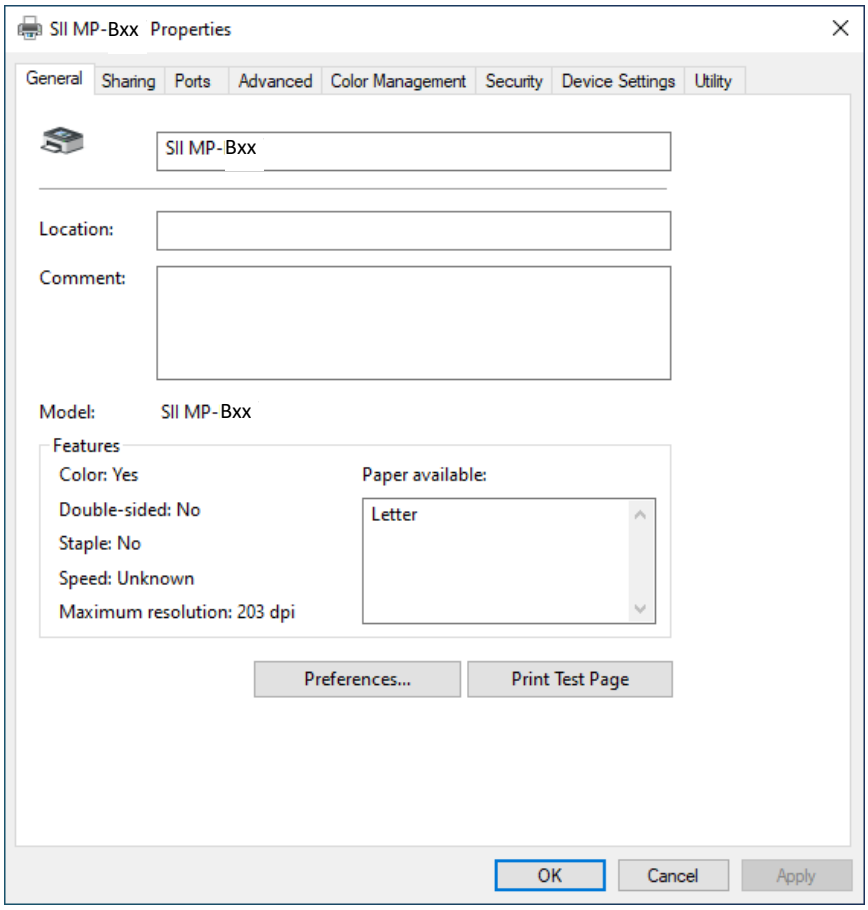


Figure 4-1 [General] Window

Item	Description
Printer name	Used to review or change the printer name.*1
Location	Used to enter the location of the printer.
Comment	Used to 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: compact printers, the test printing is not printed properly because the printing content is cut off at the printing width, but this is not a malfunction.

4.2 Sharing

Sets shared printers.

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

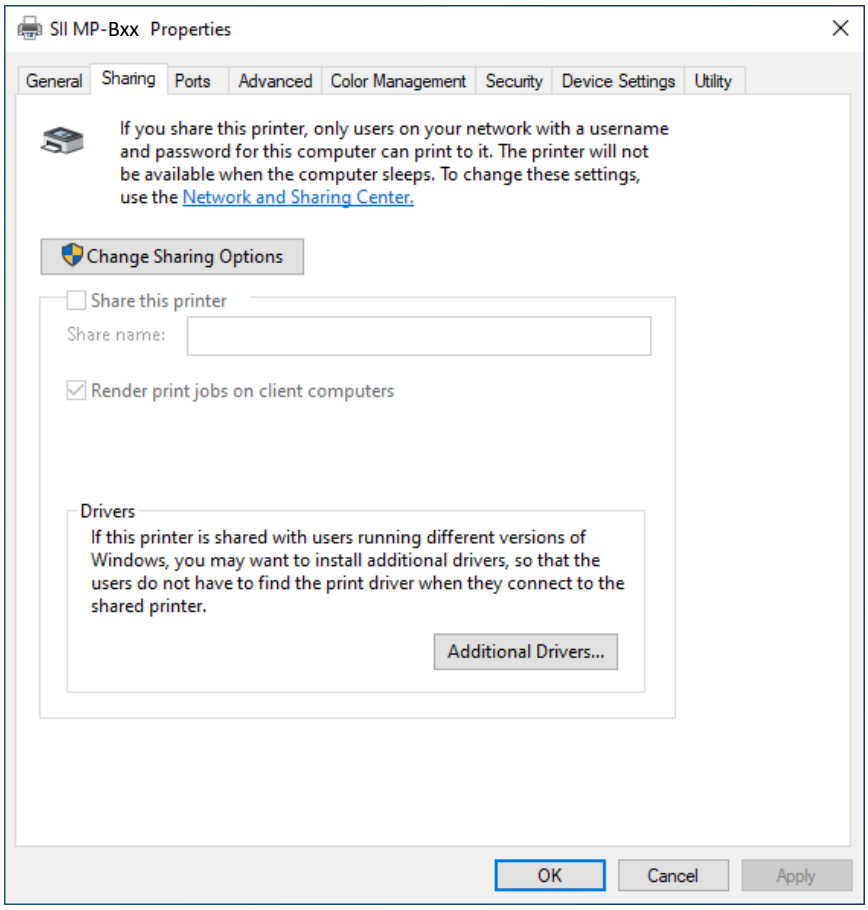


Figure 4-2 [Sharing] Window

Item		Description
Share this printer		Selecting this check box and entering an arbitrary share name in [Share name] enables the printer driver to be used from another computer on the network.
	Share name	Used to 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 situation.

4.3 Ports

Sets output ports.

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

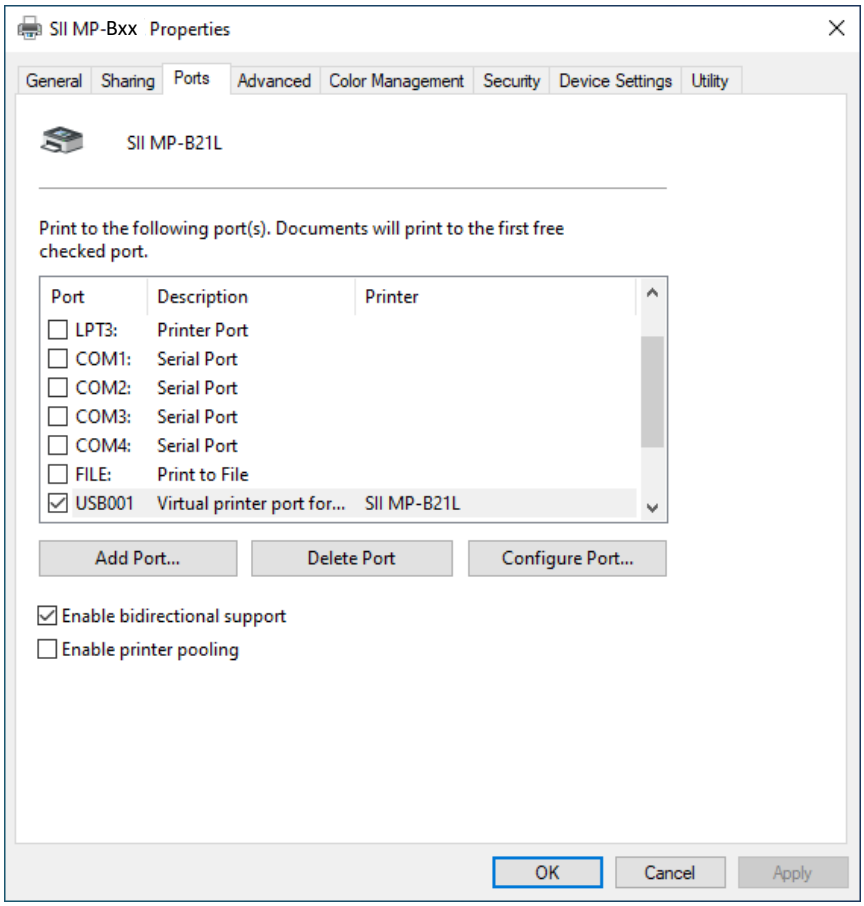


Figure 4-3 [Ports] Window

Item	Description
Add Port...	Adds ports.
Delete Port	Deletes ports.
Configure Port...	Sets parameters about the serial connection. This setting requires logon to the computer with administrator privileges.
Enable bidirectional support	Select this check box to get the information from the printer. When using the SDK, be sure to check this box.
Enable printer pooling	By enabling it, check boxes of multiple ports can be selected so that the same content can be printed on the printer connected to each port. When using the SDK, be sure to clear this check box.

4.4 Setting of Devices

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

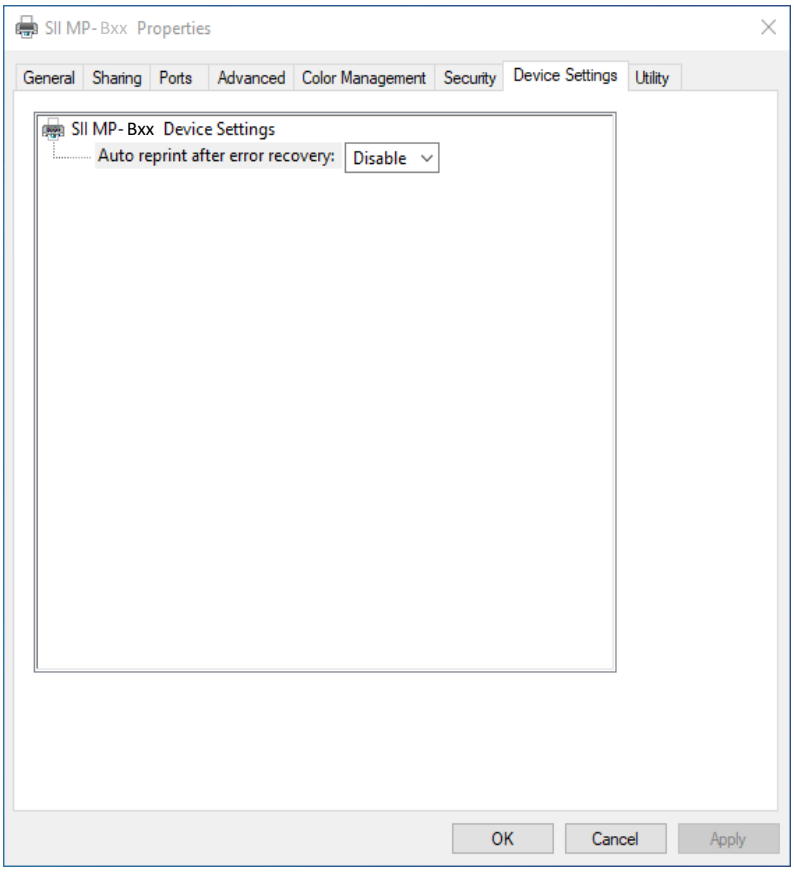


Figure 4-4 [Device Settings] window

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 Utility/Tool

Displays the version information of the printer driver and the start buttons for various utilities.

For MP-B21L, MP-B30L, and MP-B30, various utilities of Printer Setting Utility and Log Setting Utility can be selected.

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

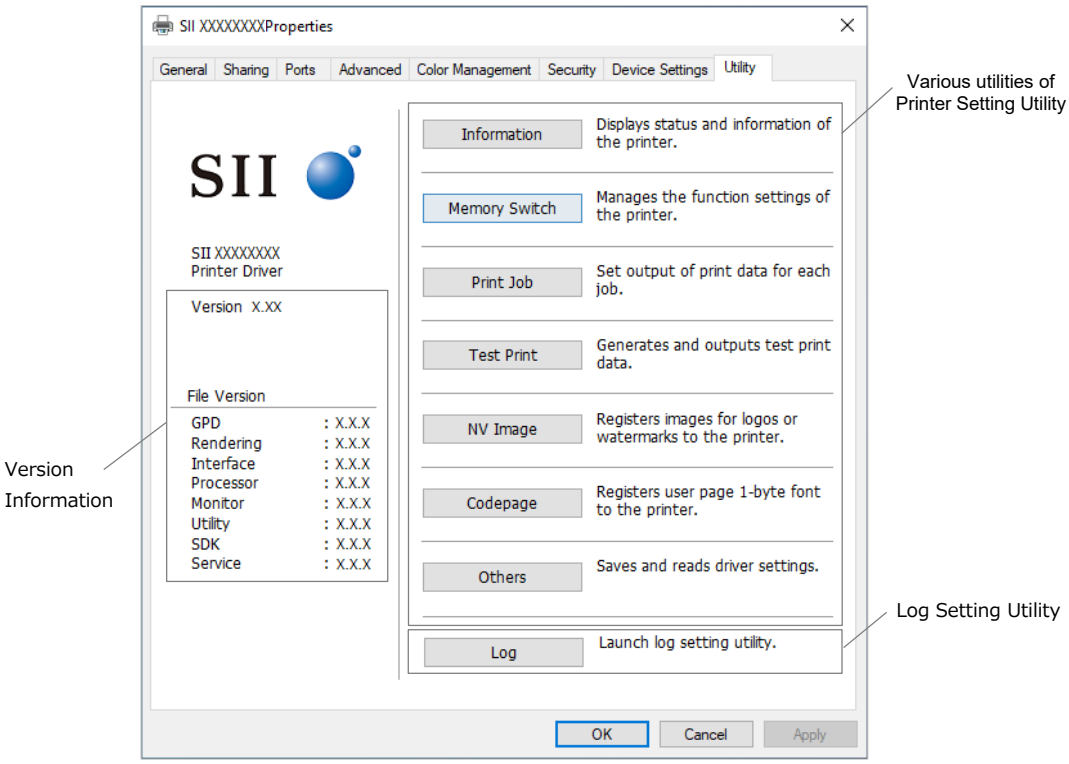


Figure 4-5 [Utility] Window (MP-B21L, MP-B30L, MP-B30)

For MP-B20, various utilities of Printer Setting Utility can be selected.
Select the [Tool] tab to display the window below.

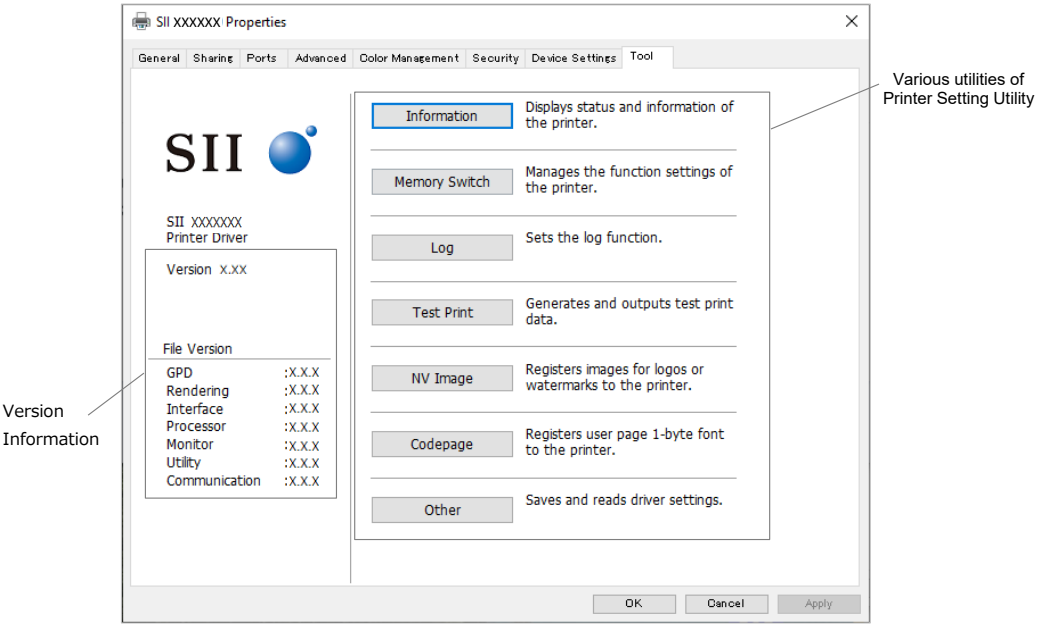


Figure 4-6 [Tool] Window (MP-B20)

Item	Description
Version Information	Displays the file information of the printer driver.
Version	Displays the printer driver version.
File version	Displays the file version of each program configuring the printer driver.
Various Utilities	Starts the utility by clicking the button.
Information	Displays various information of the printer.
Memory Switch	Sets the memory switches.
Print Job	Sets the print data output per job.
Log	Sets the printer driver log and print data output for each job.
Test Print	Executes the test print with arbitrary content.
NV Image	Edits and registers the image data to be used for logos or watermarks, or manages the registered NV images.
Codepage	Edits and registers the font data on the user page of the character code table, or manages the registered codepages.
Others	Exports the settings of this software to a file, or imports an exported file. Also, executes other printer functions.
Log	Starts the Log Setting Utility. See "SII Log Setting Utility for Windows User's Guide".

The utility setting window is displayed by clicking each utility starting button.

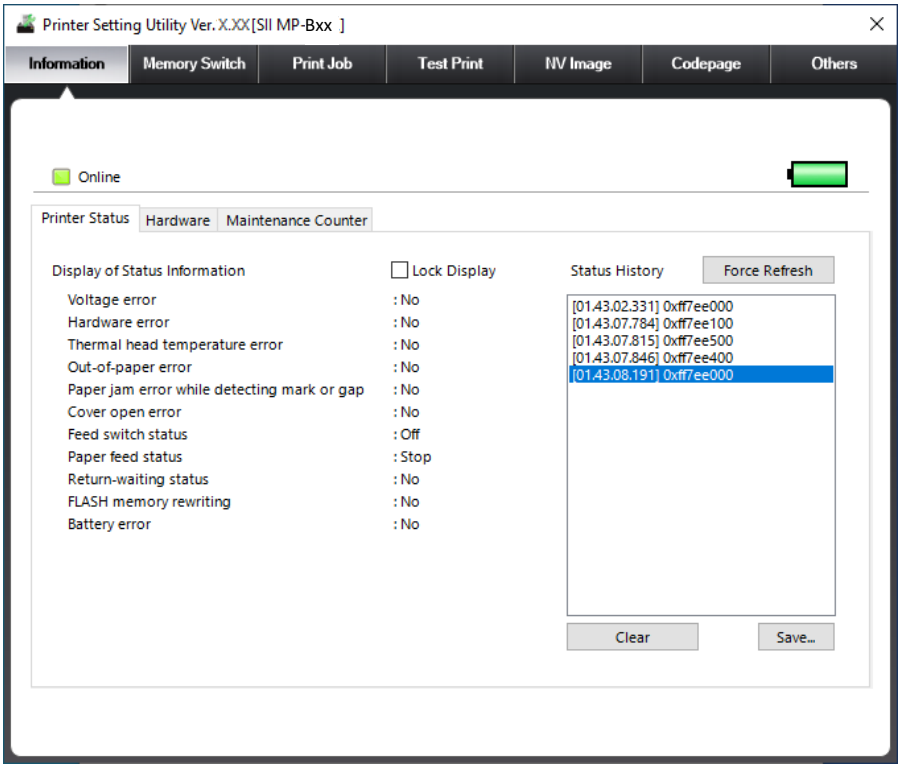


Figure 4-7 [Utility Setting] Window (Example)

See "SII Printer Setting Utility for Windows User's Guide" for details of each utility's function.

Chapter 5 Page Setup

This chapter describes the paper settings.

The terms used in this chapter are listed below.

Definition	Description
Height (Paper height)	Vertical size when the paper feed direction is "portrait"
Width (Paper 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 paper 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.

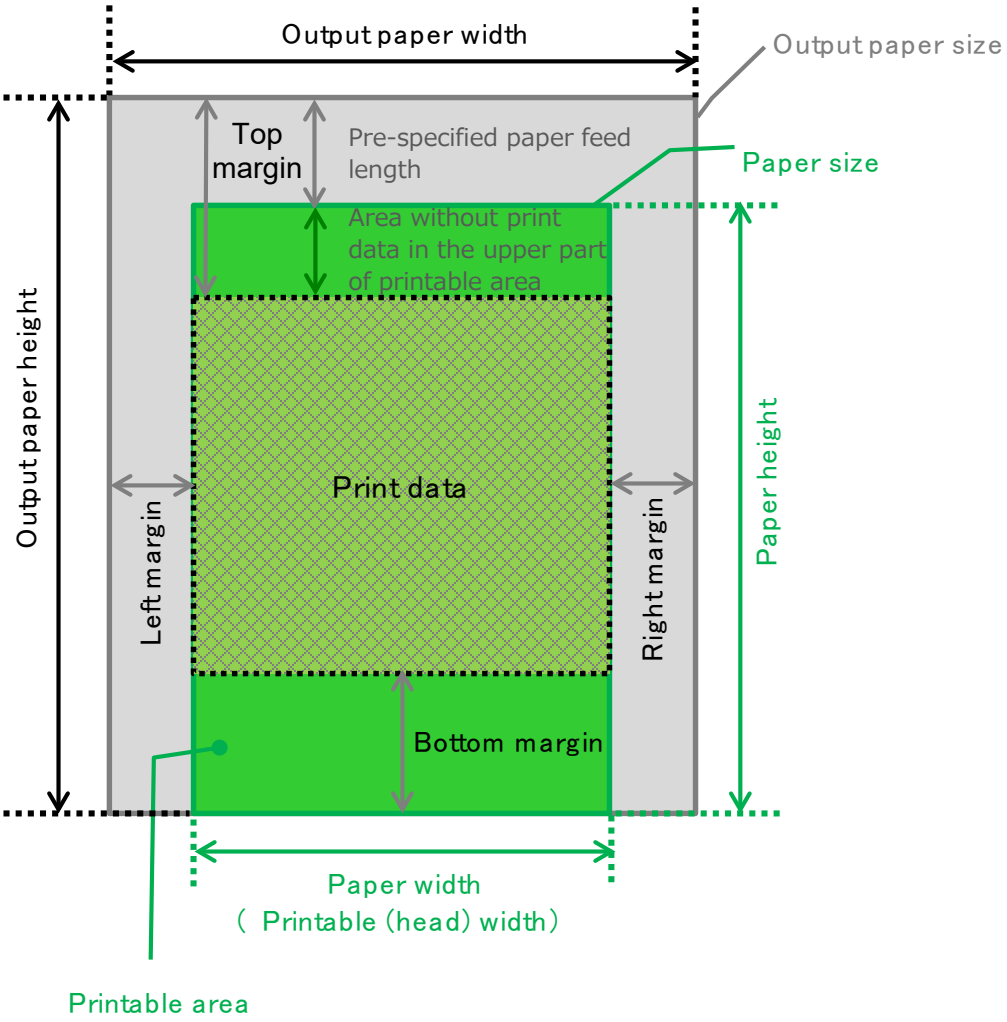


Figure 5-1 Print Image

The above figure is just a print image. The print end position varies depending on the setting in [Feed to Cut Position] described in "3.3.6 Paper Feed / Mark or Gap Detection / Marked Paper Settings".

5.1 Paper Size

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

Driver Name	Output Paper Width	Paper Type	Paper Name	Paper Size / Range	
				Width	Height
SII MP-B21L	58 mm	Standard paper	58 mm (48x3276 mm)	48 mm	3276 mm
			58 mm (48x297 mm)	48 mm	297 mm
			58 mm (46x3276 mm)	46 mm	3276 mm
			58 mm (46x297 mm)	46 mm	297 mm
			A4	210 mm	297 mm
			Letter	215.9 mm	279.4 mm
		User defined paper	-	25.6 to 48 mm	25 to 3276 mm
	50.8 mm	Standard paper	50.8 mm (46x3276mm)	46 mm	3276 mm
			50.8 mm (46x297mm)	46 mm	297 mm
			50.8 mm (44x3276mm)	44 mm	3276 mm
			50.8 mm (44x297mm)	44 mm	297 mm
			A4	210 mm	297 mm
			Letter	215.9 mm	279.4 mm
		User defined paper	-	25.6 to 48 mm	25 to 3276 mm
	25.4 mm	Standard paper	25.4 mm (21x3276mm)	21 mm	3276 mm
			25.4 mm (21x297mm)	21 mm	297 mm
			A4	210 mm	297 mm
			Letter	215.9 mm	279.4 mm
		User defined paper	-	25.6 to 48 mm	25 to 3276 mm

Driver Name	Output Paper Width	Paper Type	Paper Name	Paper Size / Range	
				Width	Height
SII MP-B30 SII MP-B30L	80 mm	Standard paper	80 mm (72 x 3276 mm)	72 mm	3276 mm
			80 mm (72 x 297 mm)	72 mm	297 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

Driver Name	Output Paper Width	Paper Type	Paper Name	Paper Size / Range	
				Width	Height
SII MP-B30L	76.2 mm	Standard paper	76.2 mm (72x3276mm)	72 mm	3276 mm
			76.2 mm (72x297mm)	72 mm	297 mm
			76.2 mm (70x3276mm)	70 mm	3276 mm
			76.2 mm (70x297mm)	70 mm	297 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
SII MP-B30L	58 mm	Standard paper	58 mm (54x3276mm)	54 mm	3276 mm
			58 mm (54x297mm)	54 mm	297 mm
			58 mm (52x3276mm)	52 mm	3276 mm
			58 mm (52x297mm)	52 mm	297 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

Driver Name	Output Paper Width	Paper Type	Paper Name	Paper Size / Range	
				Width	Height
SII MP-B20	58 mm	Standard paper	58 mm	48 mm	3276 mm
			A4	210 mm	297 mm
			Letter	215.9 mm	279.4 mm
		User defined paper	-	25.6 mm to 48 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 - Pre-specified paper feed length

For details of the margin and the pre-specified paper feed length, see "5.2 Margin".

5.2 Margin

This section describes the margin sizes.

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

There are the following margins in the paper width direction.

Left Margin

The following left margin appears.

Driver Name	Output Paper Width	Paper Width	Left Margin
SII MP-B30 SII MP-B30L	80 mm	72 mm	4 mm
SII MP-B30L	76.2 mm	72 mm	2.1 mm
		70 mm	3.1 mm
SII MP-B30L	58 mm	54 mm	2 mm
		52 mm	3 mm
SII MP-B21L SII MP-B20		48 mm	5 mm
SII MP-B21L		46 mm	6 mm
SII MP-B21L	50.8 mm	46 mm	2.4 mm
		44 mm	3.4 mm
	25.4 mm	21 mm	2.2 mm

Right Margin

The following right margin appears.

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

Top Margin

The top margin includes the following pre-specified paper feed length and an area without print data in the upper part of printable area. See Figure 5-1 for the relevant part.

Feed to Cut Position	Pre-specified Paper Feed Length
Enabled	Length from cut position to print start position*1
Disabled	None*2

*1: See the thermal paper specifications in "Technical Reference" for each product.

*2: The lower part of the paper may be cut.

Bottom Margin

The bottom margin is an area without print data in the lower part of printable area.

The following are the actions by selecting [Margin] in "3.3.5 General Settings".

- Minimum Bottom Margin: Feeds the paper to the end of the image regardless of the selected paper height.
- Maximum Margin: Feeds the paper to the selected paper height. However, the maximum of the length of paper feed is the paper height including the print data.

Caution

- ◆ When [Feed to Cut Position] in "3.3.6 Paper Feed / Marked Paper Settings" is set to "Disabled", the print is finished within the printable area by the pre-specified paper feed length.
- ◆ Due to the printer mechanism, the paper height may have a slight error with respect to the paper size contents.
- ◆ The length of printing and feeding paper: logo, paper feed, paper feed to cut position, or custom command may become longer than the specified paper size depending on the contents of the transmitted data.

Reference

- When the printer operates paper feed, the length of feeding paper can be slightly different.
- For details of how to register a user defined paper, see "5.3 How to Add a User Defined Paper".
- When marked paper is used, the maximum margin of the printer is different from the top and the bottom margin in "5.2 Margin".

5.3 How to Add a User Defined Paper

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. Enter the width for the user defined paper in the [Width] field in [Paper size].
6. Enter the height for the user defined paper in the [Height] field in [Paper size].
7. Click the [Save Form] button.

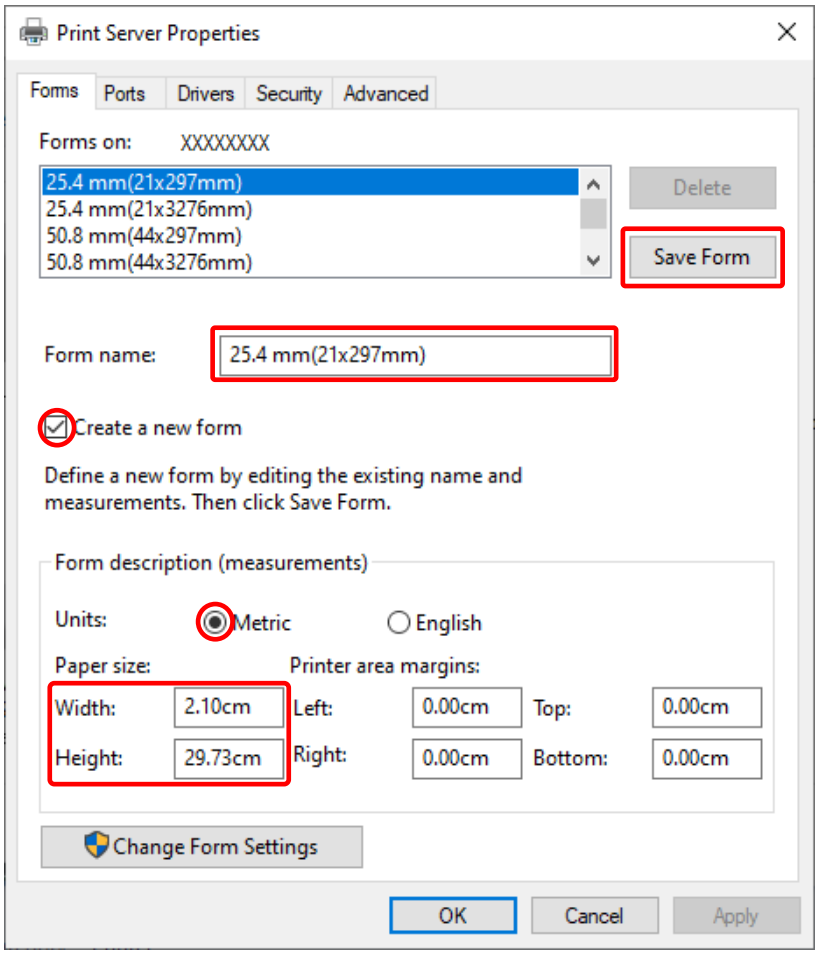


Figure 5-2 [Print Server Properties] Window

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 "5.1 Paper Size". Among the paper sizes listed in [Forms on:], only those within the size ranges specified in [Paper Size / Range] in "5.1 Paper Size" are available for the printer driver.

Chapter 6 Font

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 the 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 freely. It also enables almost WYSIWYG print.
  The TrueType font is printed as image data.

Caution

◆ When using the IPD font, set as follows:

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

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

◆ When using special fonts, the print result 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 image and IPD font cannot be printed together in a line.

6.1 Device Font

The device font is a font set that is built into the printer. The device font can be printed faster than the TrueType font.

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 [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 [Default], character string is encoded in the codepage selected in [Device Font Settings]. For details of the codepage, see "3.4.4 Device Font Settings".

Caution

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

6.1.1 Selection of Device Font Type

The types of device fonts are 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 font
IPD Font A Wide*1	8.5 points		24x12 Double width font
	17 points		24x12 Quadruple font
IPD Font B*1	5.5 points		16x8 Standard font
	11.5 points		16x8 Double height font
IPD Font B Wide*1	5.5 points		16x8 Double width font
	11.5 points		16x8 Quadruple font

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

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

6.1.2 Print of Device Font

The device font can be printed by programming.

6.2 Barcode Font

The 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 the barcode font. Available to register up to 10 types of barcode fonts (IPD Barcode1 to 10) in the printer driver. For the registration method, see "3.4.5 Barcode Font Settings".

Caution

- When a barcode becomes wider than the paper width (printable (head) width) due to the barcode setting or data specification, it cannot be printed correctly.

6.2.1 Selection of Barcode Font Type

The font names of barcodes 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		

6.2.2 Print of Barcode Font

The barcode font can be printed by programming.

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

Type	Barcode Font Data Characters	Available Barcode Font 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	One or more characters	'0' to '9'	(0x30 to 0x39)	The start and stop codes ('*') are automatically added.
		'A' to 'Z'	(0x41 to 0x54)	
		' '	(0x20)	
		'$'	(0x24)	
		'%'	(0x25)	
		'+'	(0x2B)	
		'-'	(0x2D)	
		'.'	(0x2E)	
		'/'	(0x2F)	
ITF	Two or more characters (even number only)	'0' to '9'	(0x30 to 0x39)	Specify even number of barcode font data. Otherwise, the print may be improper.
CODABAR	One or more characters	'0' to '9'	(0x30 to 0x39)	For details of setting start and stop codes ('A' to 'D'), see "3.4.5 Barcode Font Settings".
		'$'	(0x24)	
		'+'	(0x2B)	
		'-'	(0x2D)	
		'.'	(0x2E)	
		'/'	(0x2F)	
		':'	(0x3A)	
CODE128	Two or more characters		(0x00 to 0x7F) *1 *2 *3	-
CODE93	One 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)	-

Type	Barcode Font Data Characters	Available Barcode Font Data		Remarks
Customer Bar Code	7 to 20 characters	'0' to '9'	(0x30 to 0x39)	Start code, check digit, and stop code are automatically added. It is needed to specify one of '0' to '9' at the first 7 characters. ' A' to 'Z' is calculated as 2 characters.
		'A' to 'Z'	(0x41 to 0x5A)	
		'-'	(0x2D)	
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.
GS1 Databar Expanded*5	Two 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, see "Table A-2 CODE128 Special Characters Code".
For the corresponding barcode font data, see "Table A-1 CODE128 Code Set".
The input format of barcode font data of CODE128 is as follows:
・For "CODE A" or "CODE B":
Input Example: barcode font data (012345)
When [HEX Input] is "Disabled" : 012345
When [HEX Input] is "Enabled" : 303132333435
・For "CODE C"
When [HEX Input] is "Disabled": Select the code corresponding to the character string to be input from [Code] in "Table A-1 CODE128 Code Set". Then, input the character string corresponding to the code, referring to "Table A-3 Character Code".
When [HEX Input] is "Enabled": Input the data from [Code] in "Table A-1 CODE128 Code Set".

*2: To use 0x00 to 0x1F and 0x7F, set [Hex Input] in "3.4.5 Barcode Font Settings" to "Enabled" to enter the codes.

*3: 0x20 is available only when [Hex Input] is "Enabled" in "3.4.5 Barcode Font Settings".

*4: Use '{' only for specifying FNC.
When specifying FNC1, enter '{' and '1' (0x7B and 0x31).

*5: For details of valid input data, see "Technical Reference".

6.3 2D-Barcode Font

The 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 the 2D-Barcode font. Available to register up to 5 types of 2D-Barcode fonts (IPD 2D-Barcode1 to 5) in the printer driver. For the registration method, see "3.4.6 2D-Barcode Font Settings".

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

Caution

- When a 2D-Barcode becomes wider than the paper width (printable (head) width) due to the 2D-Barcode setting or data specification, it cannot be printed correctly.

6.3.1 Selection of 2D-Barcode Font Type

The font names of 2D-Barcodes 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 the environment other than Japanese, set the [Character Set] (Font Script) to "Western". In the Japanese environment, set the [Character Set] (Font Script) to "Japanese".

6.3.2 Print of 2D-Barcode Font

The 2D-Barcode font can be printed by programming.

For details of valid input data, see "Technical Reference".

6.4 Control Font

The control font is a special font that executes printer commands assigned to fixed characters from a document.

6.4.1 Selection of Control Font Type

The types of control fonts are as follows.

Font Name	Font Size	Character Set
IPD Control	8.5 points	Western

6.4.2 Use of Control Font

The control font can be used by programming.

The following table lists the characters assigned as the control font and the 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" (0x30,0x30) print	y	Alignment right
i	NV image "01" (0x30,0x31) print	G	NV image "00" (0x30,0x30) Normal print
j	NV image "02" (0x30,0x32) print	H	NV image "01" (0x30,0x31) Normal print
k	NV image "03" (0x30,0x33) print	I	NV image "02" (0x30,0x32) Normal print
l	NV image "04" (0x30,0x34) print	J	NV image "03" (0x30,0x33) Normal print
m	Inversion (flip) printing specify	K	NV image "04" (0x30,0x34) Normal print
n	Inversion (flip) printing cancel	P	Feed paper to the cutting position
o	Reverse print specify	Q	Feed paper to the cutting position
p	Reverse print cancel	[	NV image "00" (0x30,0x30) Quad print
q	Underline specify	]	NV image "01" (0x30,0x31) Quad print
r	Underline cancel	^	NV image "02" (0x30,0x32) Quad print
s	Bold print specify	_	NV image "03" (0x30,0x33) Quad print
t	Bold print cancel	`	NV image "04" (0x30,0x34) Quad print
u	Character 90 degrees right rotate specify	-	-

Caution

◆ Underline is not applied at 90 degrees rotation.

6.5 ControlA Font

The ControlA font is a special font that executes printer commands assigned to characters in advance from a document. For the printer command, see "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 ControlA Font Settings".

6.5.1 Selection of ControlA Font Type

The types of ControlA fonts are as follows.

Font Name	Font Size	Font Script
IPD ControlA	8.5 points	Western

6.5.2 Use of ControlA Font

The ControlA fonts can be used by programming.

Appendix A Code Table

Table A-1 CODE128 Code Set

Code	Data			Code	Data			Code	Data		
	CODE A	CODE B	CODE C		CODE A	CODE B	CODE C		CODE A	CODE B	CODE C
0x00	SP*1	SP*1	00	0x24	D	D	36	0x48	BS	h	72
0x01	!	!	01	0x25	E	E	37	0x49	HT	i	73
0x02	"	"	02	0x26	F	F	38	0x4A	NL*	j	74
0x03	#	#	03	0x27	G	G	39	0x4B	VT	k	75
0x04	$	$	04	0x28	H	H	40	0x4C	NP	l	76
0x05	%	%	05	0x29	I	I	41	0x4D	CR	m	77
0x06	&	&	06	0x2A	J	J	42	0x4E	SO	n	78
0x07	'	'	07	0x2B	K	K	43	0x4F	SI	o	79
0x08	(	(	08	0x2C	L	L	44	0x50	DLE	p	80
0x09	)	)	09	0x2D	M	M	45	0x51	DC1	q	81
0x0A	*	*	10	0x2E	N	N	46	0x52	DC2	r	82
0x0B	+	+	11	0x2F	O	O	47	0x53	DC3	s	83
0x0C	,	,	12	0x30	P	P	48	0x54	DC4	t	84
0x0D	-	-	13	0x31	Q	Q	49	0x55	NAK	u	85
0x0E	.	.	14	0x32	R	R	50	0x56	SYN	v	86
0x0F	/	/	15	0x33	S	S	51	0x57	ETB	w	87
0x10	0	0	16	0x34	T	T	52	0x58	CAN	x	88
0x11	1	1	17	0x35	U	U	53	0x59	EM	y	89
0x12	2	2	18	0x36	V	V	54	0x5A	SUB	z	90
0x13	3	3	19	0x37	W	W	55	0x5B	ESC	{	91
0x14	4	4	20	0x38	X	X	56	0x5C	FS	|	92
0x15	5	5	21	0x39	Y	Y	57	0x5D	GS	}	93
0x16	6	6	22	0x3A	Z	Z	58	0x5E	RS	~	94
0x17	7	7	23	0x3B	[	[	59	0x5F	US	DEL	95

Code	Data			Code	Data			Code	Data		
	CODE A	CODE B	CODE C		CODE A	CODE B	CODE C		CODE A	CODE B	CODE C
0x18	8	8	24	0x3C	\	\	60	0x60	FNC3	FNC3	96
0x19	9	9	25	0x3D	]	]	61	0x61	FNC2	FNC2	97
0x1A	:	:	26	0x3E	^	^	62	0x62	SHIFT	SHIFT	98
0x1B	;	;	27	0x3F	_	_	63	0x63	CODE C	CODE C	99
0x1C	<	<	28	0x40	NUL	`	64	0x64	CODE B	FNC4	CODE B
0x1D	=	=	29	0x41	SOH	a	65	0x65	FNC4	CODE A	CODE A
0x1E	>	>	30	0x42	STX	b	66	0x66	FNC1	FNC1	FNC1
0x1F	?	?	31	0x43	ETX	c	67				
0x20	@	@	32	0x44	EOT	d	68	0x67	START A		
0x21	A	A	33	0x45	ENQ	e	69	0x68	START B		
0x22	B	B	34	0x46	ACK	f	70	0x69	START C		
0x23	C	C	35	0x47	BEL	g	71				

*1: Input a space.

Table A-2 CODE128 Special Characters Code

Code		Data		
Code	ASCII	CODE A	CODE B	CODE C
0x7B53	{S	SHIFT	SHIFT	-
0x7B41	{A	START A	CODE A	CODE A
0x7B42	{B	CODE B	START B	CODE B
0x7B43	{C	CODE C	CODE C	START C
0x7B31	{1	FNC1	FNC1	FNC1
0x7B32	{2	FNC2	FNC2	-
0x7B33	{3	FNC3	FNC3	-
0x7B34	{4	FNC4	FNC4	-
0x7B7B	{{	-	'{'	-

Table A-3 Character Code

Code	Character String	Code	Character String	Code	Character String	Code	Character String	Code	Character String	Code	Character String
0x20	SP*1	0x30	0	0x40	@	0x50	P	0x60	`	0x70	p
0x21	!	0x31	1	0x41	A	0x51	Q	0x61	a	0x71	q
0x22	”	0x32	2	0x42	B	0x52	R	0x62	b	0x72	r
0x23	#	0x33	3	0x43	C	0x53	S	0x63	c	0x73	s
0x24	$	0x34	4	0x44	D	0x54	T	0x64	d	0x74	t
0x25	%	0x35	5	0x45	E	0x55	U	0x65	e	0x75	u
0x26	&	0x36	6	0x46	F	0x56	V	0x66	f	0x76	v
0x27	’	0x37	7	0x47	G	0x57	W	0x67	g	0x77	w
0x28	(	0x38	8	0x48	H	0x58	X	0x68	h	0x78	x
0x29	)	0x39	9	0x49	I	0x59	Y	0x69	i	0x79	y
0x2A	*	0x3A	:	0x4A	J	0x5A	Z	0x6A	j	0x7A	z
0x2B	+	0x3B	;	0x4B	K	0x5B	[	0x6B	k	0x7B	{
0x2C	,	0x3C	<	0x4C	L	0x5C	\	0x6C	l	0x7C	|
0x2D	-	0x3D	=	0x4D	M	0x5D	]	0x6D	m	0x7D	}
0x2E	.	0x3E	>	0x4E	N	0x5E	^	0x6E	n	0x7E	~
0x2F	/	0x3F	?	0x4F	O	0x5F	_	0x6F	o	0x7F	DEL

*1: Input a space.