SII Printer Driver for Windows
User's Guide

Rev.06

[Products]

SLP720RT Series

SLP721RT 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 and SLP720RT
- Operating instructions with a mouse and a keyboard

Operating System Abbreviations

The operating system abbreviations used in this manual are listed below.
When an individual description is necessary, the description is written in parentheses behind the abbreviation.

Operating System	Abbreviation
General Microsoft® Windows®	Windows
Microsoft® Windows® 11	Windows 11
Microsoft® Windows® 11 IoT Enterprise	
Microsoft® Windows® 10	Windows 10
Microsoft® Windows® 10 IoT Enterprise	
Microsoft® Windows Server® 2025	Windows Server 2025
Microsoft® Windows Server® 2022	Windows Server 2022
Microsoft® Windows Server® 2019	Windows 10 (Windows Server 2019)
Microsoft® Windows Server® 2016	Windows 10 (Windows Server 2016)

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]
Technical Reference	Technical Reference shown as follows: ・ SLP720RT SERIES THERMAL PRINTER TECHNICAL REFERENCE ・ SLP721RT SERIES THERMAL PRINTER TECHNICAL REFERENCE
User's Guide	User's Guide shown as follows: ・ SLP720RT SERIES Thermal Printer USER'S GUIDE ・ SLP721RT SERIES Thermal Printer USER'S GUIDE
Printer command	Instruction to control the printer, described in "Technical Reference "
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 SLP720RT/SLP721RT series prints with dot density of 8 dots per 1 mm.

*1: Integrated Printer Driver

Supported Paper and Names in This Manual

The supported paper by the software and their names in this manual are listed below.

All Type	By type	By function	Abbreviation	Support
Paper	Receipt	Receipt	Receipt	✓
	Linerless label	Linerless label	Label	✓
		Marked linerless label	Marked paper	✓
	SLP Label	SLP Label	Label	✓

Symbols

The symbols used in this manual are described below.

Caution

◆ Notes and limitations are described.

Reference

• Supplemental information and related matters are described.

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Chapter 1 Overview

This chapter describes the overview of the printer driver.

1.1 Operating Environment

This section describes the operating environment of the printer driver.

1.1.1 Operating Systems

The operating systems covered by the printer driver are as follows.

Item	Specifications
Operating System	Microsoft® Windows® 11 (64 bits) Microsoft® Windows® 11 IoT Enterprise (64 bits) Microsoft® Windows® 10 (32 bits and 64 bits) Microsoft® Windows® 10 IoT Enterprise (32 bits and 64 bits) Microsoft® Windows Server® 2025 (64 bits) Microsoft® Windows Server® 2022 (64 bits) Microsoft® Windows Server® 2019 (64 bits) Microsoft® Windows Server® 2016 (64 bits)

Caution

- ◆ Modern UI is not supported.
- ◆ Windows ARM is not supported.

1.1.2 Target Products

The products covered by the printer driver are as follows.

Printer	Interface	Driver Name
SLP720RT Series	USB*1	SII SLP720RT
	TCP/IP*2	
SLP721RT Series	USB*1	
	Bluetooth*3	
	TCP/IP*2	

*1: USB Standard: Full-Speed
*2: TCP/IP Protocol: Raw
*3: Bluetooth Profile: SPP

Caution

◆ For Bluetooth connection:

- Operating conditions are as follows.
  ・The target printer is not connected with another computer via Bluetooth.
  ・Microsoft standard system driver is used.
  ・Communication is available through a virtual serial port generated when installing via Bluetooth connection.
- Bluetooth connection is not supported by Windows Server 2025, 2022, 2019, or 2016.

◆ For TCP/IP connection:

- Only Raw protocol is supported (LPR specification is ignored). (Except when the bidirectional support is disabled.)
- The socket ports of 9100 and 26100 are used. When install a firewall, allow the connection with these ports.

Reference

- Contact us for the operation test verified Bluetooth environment.

1.2Printer 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 SLP720RT/SLP721RT series. For details, see "3.3.2 Memory Switch" in "SII Printer Setting Utility for Windows User's Guide" for SLP720RT/SLP721RT series.

MS	Item	Value
1-2	Taken Mode Selection (Taken Mode)	0: Enable*1 1: Disable*2
1-3	Mark Mode Selection (Mark Mode)	0: Enable*3 1: Disable*4
4-4	Paper Width Selection (Paper Width)	0: 58 mm
4-6	Paper Auto Detection Selection (Paper Auto Detection)	0: Enable*3 1: Disable*3*4
5-1	Automatic Status Response Selection (Auto Status Back)	0: Enable 1: Disable*5
5-2	Initialized Response Selection (Init. Response)	0: Enable*6
7	Thermal Paper Selection (Thermal Paper)	00B: Receipt 01B: Linerless label 10B: SLP Label
13-3	Realtime Command Selection (Realtime Command)	1: Enable
17-3	Feed Backward Setting After Paper Cutting (Backfeed After Cut)	1: Disable

*1: Set this value to "Enable" in the following cases.
・When using partial cut and minimum top margin together for printing on label, etc.
・When using paper cut for printing on linerless label.

*2: Set this value to "Disable" in the following cases.
・When printing multiple pages or multiple jobs at the same time in one print.
・When performing partial cut between pages.

*3: When performing marked paper from feed, one of the following settings is necessary.
・To automatically detect paper, set the memory switch MS 4-6 (Paper Auto Detection Selection) of the printer to "Enable".
・To specify the paper, set MS 4-6 (Paper Auto Detection Selection) to "Disable" and set MS 1-3 (Mark Mode Selection) to "Enable".
In addition, select the paper to use as follows.
・For marked linerless label:
Set MS 7 (Thermal Paper Selection) of the printer to "Linerless label".
・For SLP Label:
Set MS 7 (Thermal Paper Selection) of the printer to "SLP Label".

*4: Set this value to "Disable" and select the paper to be used in the memory switch MS 7 (Thermal Paper Selection) of the printer when using the receipt (other than marked paper) or the Linerless label (other than the marked paper).

*5: 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".

*6: 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.
- For using reduction function, the dedicated print processor (SII RT 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

This chapter describes the installation of the printer driver.

Caution

◆ This installation requires logon to the computer with administrator privileges.

Reference

- When multiple printers using this printer driver are installed, from the second time or later installation, use the installed program [Add a Printer].
  [Add a Printer] is available from the following.
  - For Windows 11 and Windows Server 2025:
    Select [All] or [All apps] - [Smart Label Printer RT Series] - [Add a Printer] from Start menu.
  - For Windows 10 and Windows Server 2022:
    Select [Smart Label Printer RT Series] - [Add a Printer] from Start menu.

2.1 New Installation Method

This section describes the new installation method.

Caution

◆ Do not install more than 1 printer for the same communication port.

2.1.1 Common Installation Procedure

This section describes the procedure of starting installation used for every connection.

1. When the [Install start] window is displayed, click the [Next >] button.

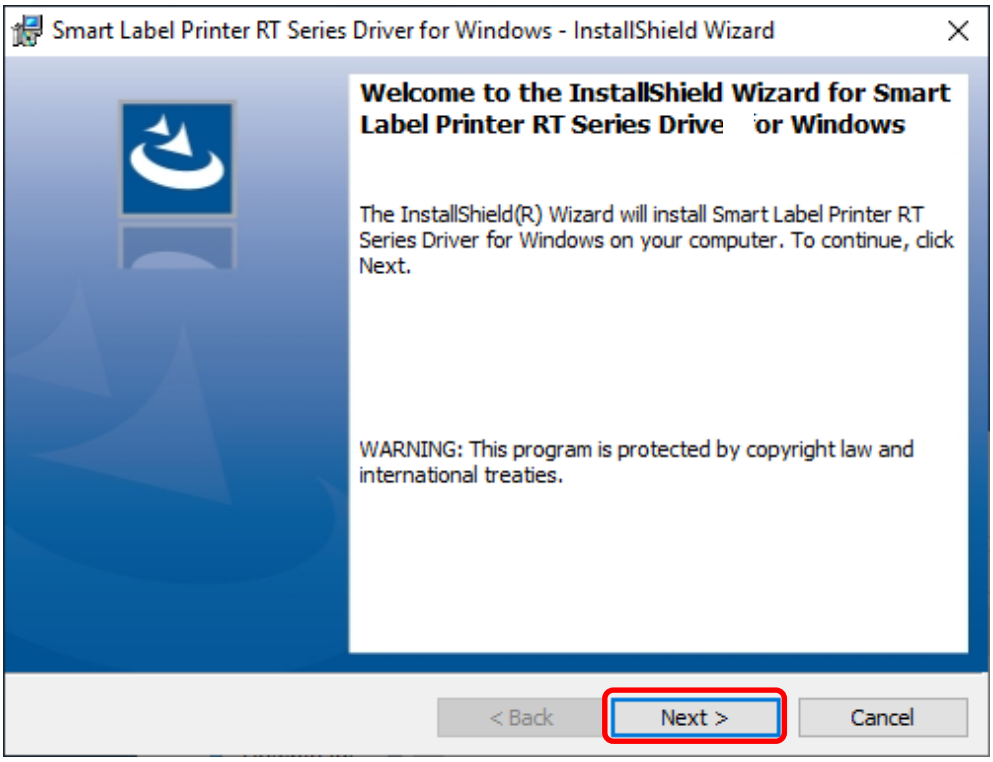


Figure 2-1 [Install start] Window

2. When the [SOFTWARE LICENSE AGREEMENT] is displayed, read it carefully, select "I accept the terms in the license agreement", and then click the [Next >] button.

3. When [Setup type selection] is displayed, select "Complete", and then click the [Next >] button.
   When only printer driver is installed, select "Custom", and select the program functions according to the display.

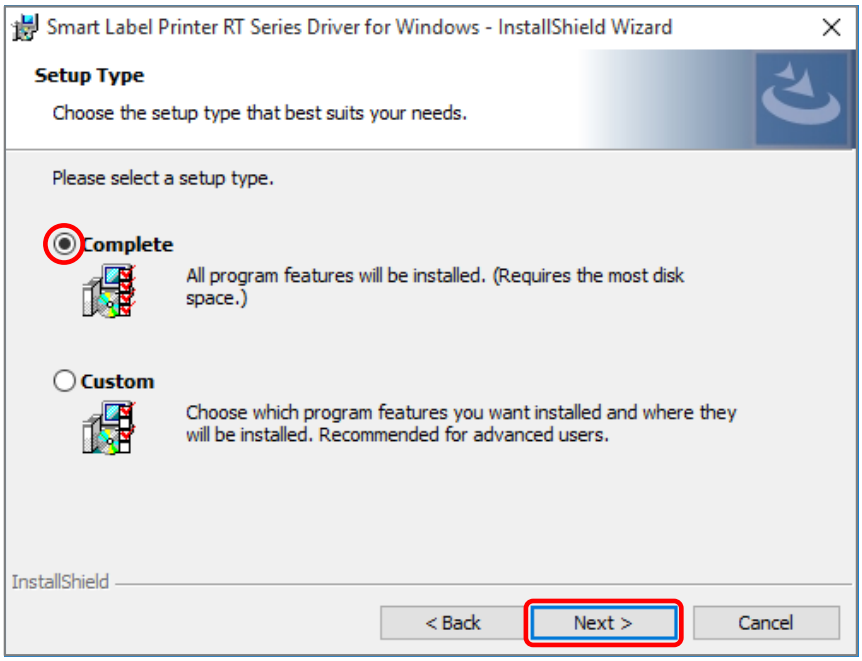


Figure 2-2 [Setup type selection] Window

4. When the [Installation confirmation] window is displayed, click the [Install] button.

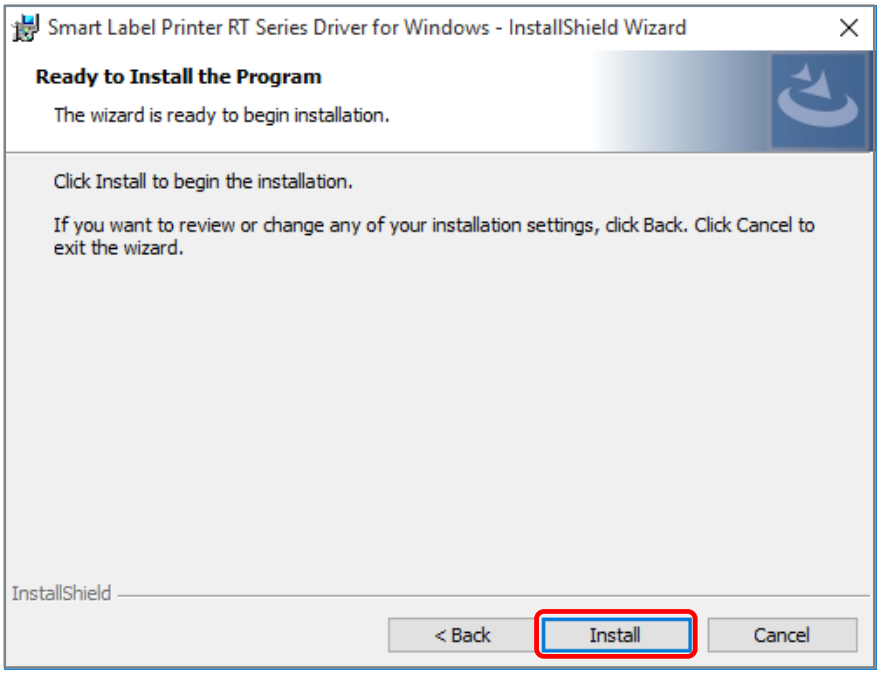


Figure 2-3 [Installation confirmation] Window

The subsequent procedure varies depending on the connection method with the printer. For the USB, proceed to "2.1.2 Installation with USB Connection". For Bluetooth, proceed to "2.1.3 Installation with Bluetooth Connection". For TCP/IP, proceed to "2.1.4 Installation with Bluetooth Connection". For using shared printer, proceed to "2.1.5 Installation of Shared Printer".

2.1.2 Installation with USB Connection

This section describes the installation procedure of the USB connection.

Caution

- For the USB connection, keep the printer power off until being instructed to do so in this manual.
- When reconnect the USB cable once removed after installing the printer driver successfully, connect it to the same USB port used to install the driver. When the printer is connected to a different USB port on the computer, the host recognizes it as another printer, and prompts for printer driver installation again.

5. When the [Completion] window is displayed, click the [Finish] button.

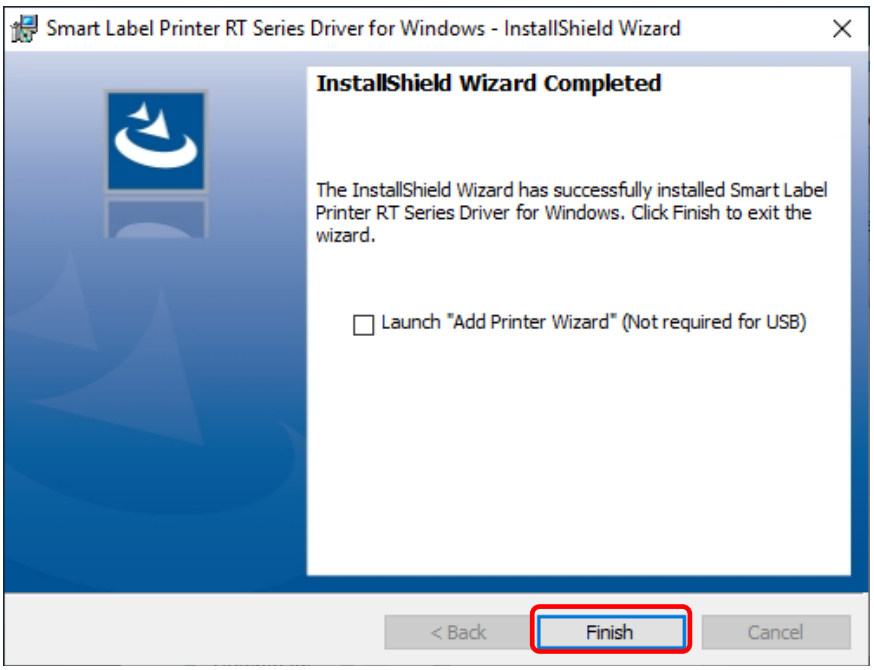


Figure 2-4 [Completion] Window (USB Connection)

6. Connect the printer and the computer by the USB cable, and turn on the printer. After the printer is recognized by the computer, the printer driver is automatically installed by the plug and play.

2.1.3 Installation with Bluetooth Connection

This section describes the installation procedure for Bluetooth connection.

Caution

- ◆ When using Bluetooth connection, the printer cannot be used from multiple hosts simultaneously.
- ◆ For the Bluetooth connection, keep the printer power off until being instructed to do so in this manual.
- ◆ After installation, do not change the association model with the printer command "Set Bluetooth Communication".

5. When the [Completion] window is displayed, select "Launch "Add Printer Wizard" (Not required for USB)" check box, and click the [Finish] button.

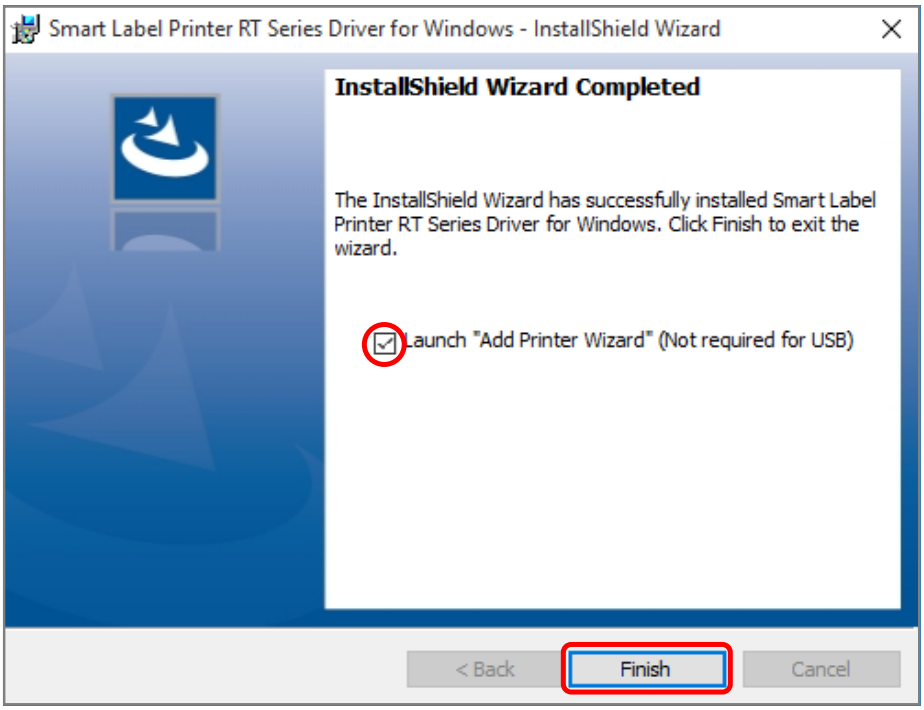


Figure 2-5 [Completion] Window (Bluetooth Connection)

6. When the [Add printer] window is displayed, select the driver name and the interface, and click the [Next] button.

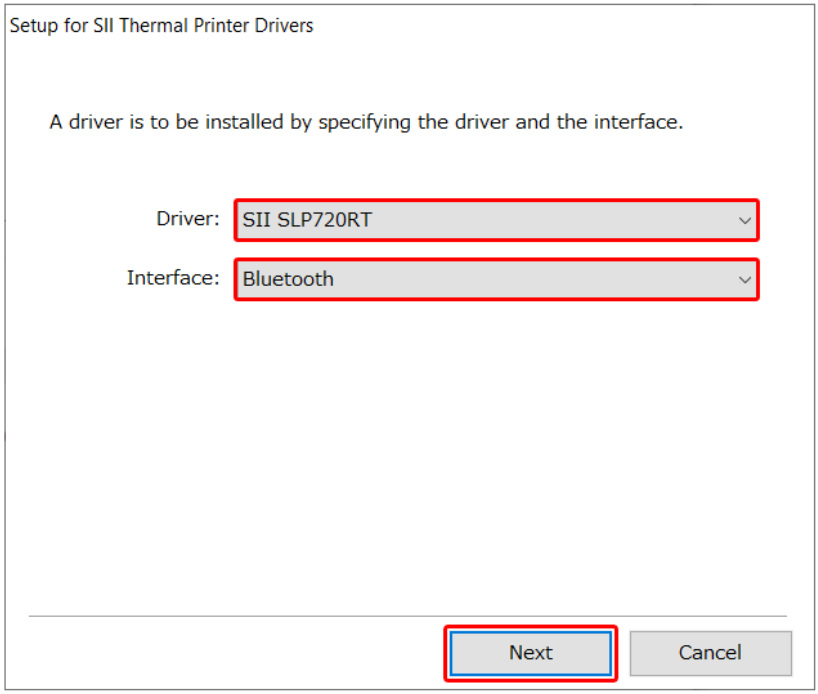


Figure 2-6 [Add printer] Window (Bluetooth Connection)

7. When the [Install printer] window is displayed, press the power switch of the printer for 8 seconds or more.
When pairing mode starts, the printers are displayed on the [Install printer] window, select the appropriate printer and click the [Install] button. The printer driver is installed.

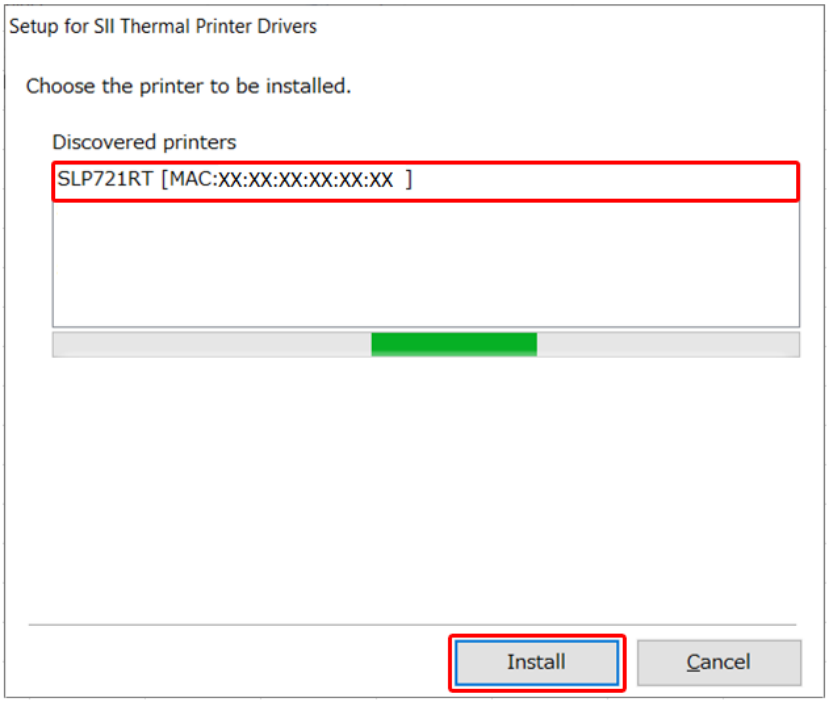


Figure 2-7 [Install printer] Window (Bluetooth Connection)

2.1.4 Installation with TCP/IP Connection

This section describes the installation procedure of the TCP/IP connection.

5. When the [Completion] window is displayed, select "Launch "Add Printer Wizard" (Not required for USB)" check box, and click the [Finish] button.

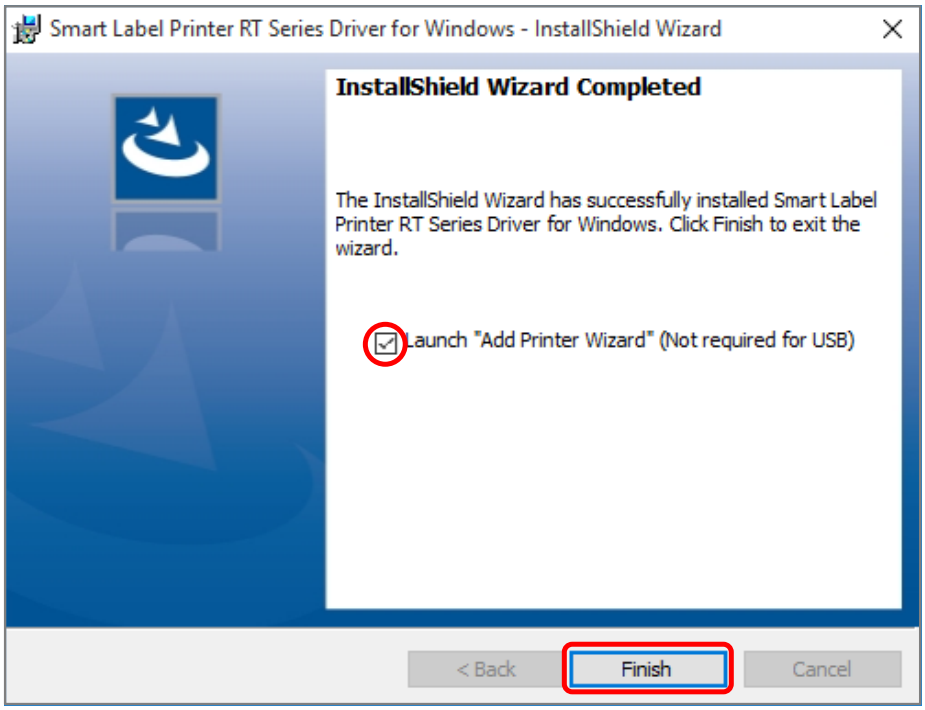


Figure 2-8 [Completion] Window (TCP/IP Connection)

6. When the [Add printer] window is displayed, select the driver name and the interface, and click the [Next] button.

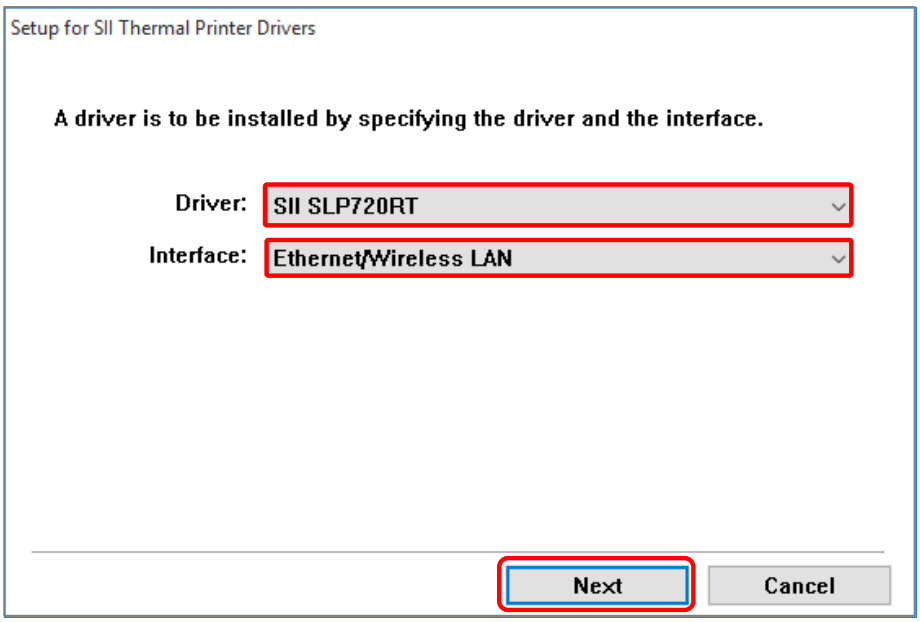


Figure 2-9 [Add printer] Window (TCP/IP Connection)

7. When the printers are displayed on the [Install printer] window, select either of the following and click the [Install] button. The printer driver is installed.
   7-1. Select the appropriate printer.
   7-2. Select the [Enter manually] and enter the IP address and the Port name.

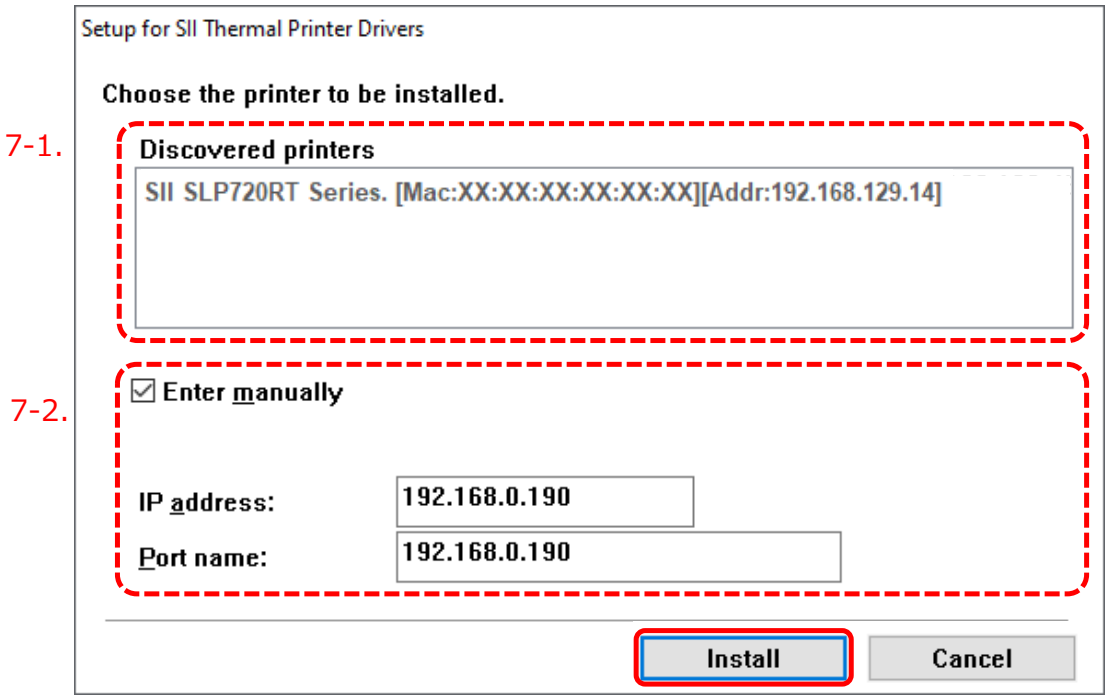


Figure 2-10 [Install printer] Window (TCP/IP Connection)

2.1.5 Installation of Shared Printer

This section describes the installation procedure of the shared printer.

5. When the [Completion] window is displayed, select "Launch "Add Printer Wizard" (Not required for USB)" check box, and click the [Finish] button.

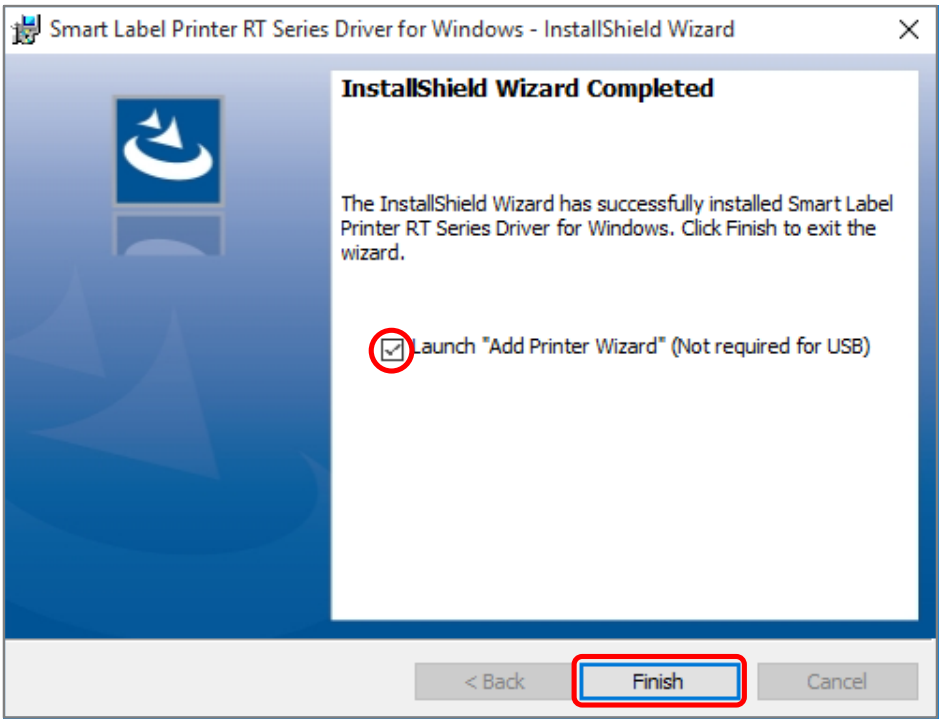


Figure 2-11 [Completion] Window (Shared Printer)

6. When the [Add printer] window is displayed, select the driver name and the interface, and click the [Next] button.

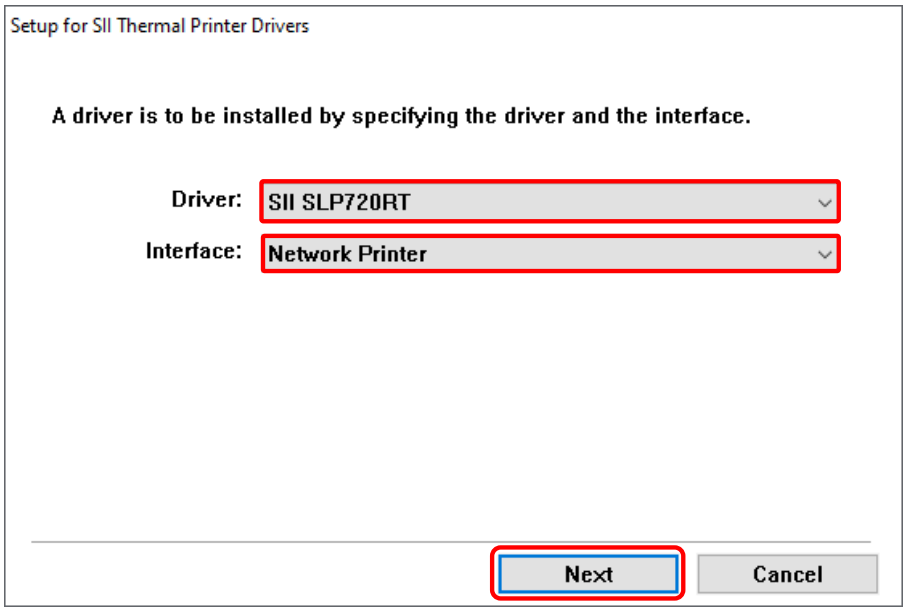


Figure 2-12 [Add printer] Window (Shared Printer)

7. When the printers are displayed on the [Install printer] window, select either of the following and click the [Install] button. The printer driver is installed.
   7-1. Select the appropriate printer.
   7-2. Select the [Enter manually] and enter the Printer name.

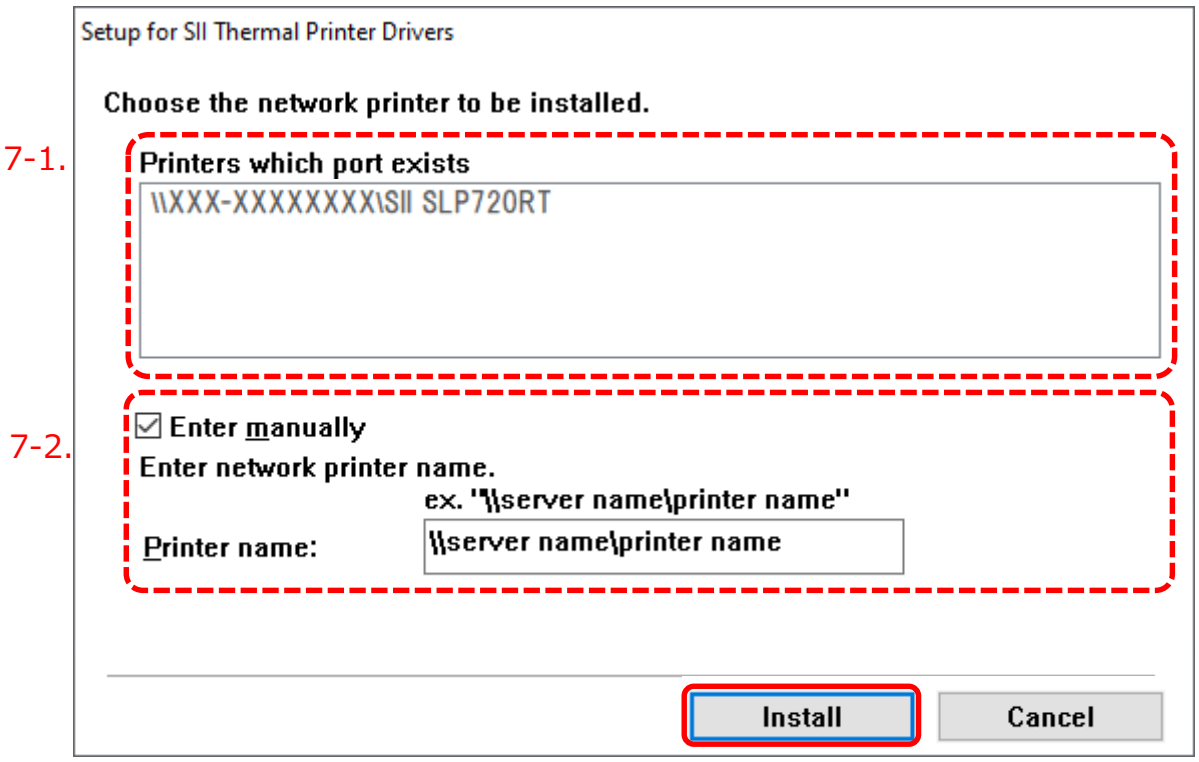


Figure 2-13 [Install printer] Window (Shared Printer)

2.2 Uninstallation

When the printer driver is no longer needed, uninstall it in the following procedure.

1. Click "Uninstall a Program" from [Programs and Features] in the Control Panel.
2. When [Programs and Features] window is displayed, select [Smart Label Printer RT Series Driver for Windows], and click the [Uninstall] button. Uninstallation is executed.

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.

Caution

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

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.

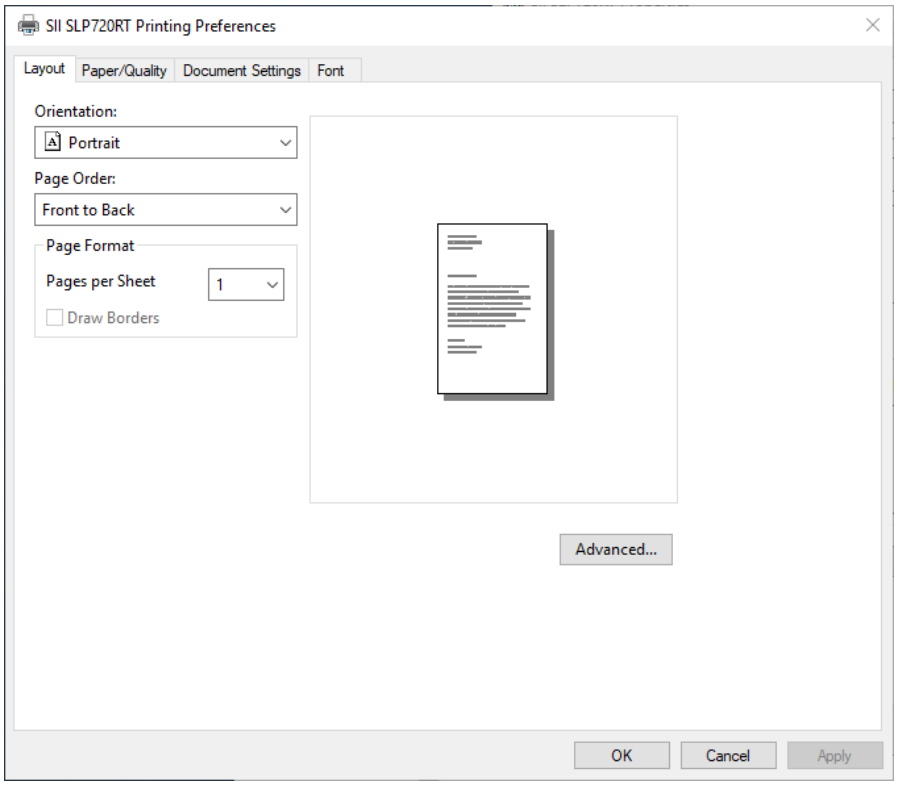


Figure 3-1 [Layout] Window

Item	Description (" ": Default)
Orientation	Selects the print direction.*1 ・ Portrait ・ Landscape
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 "3.5 Advanced Options".

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

3.2 Paper/Quality

Sets the print mode.

3.2.1 Paper/Quality Settings

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

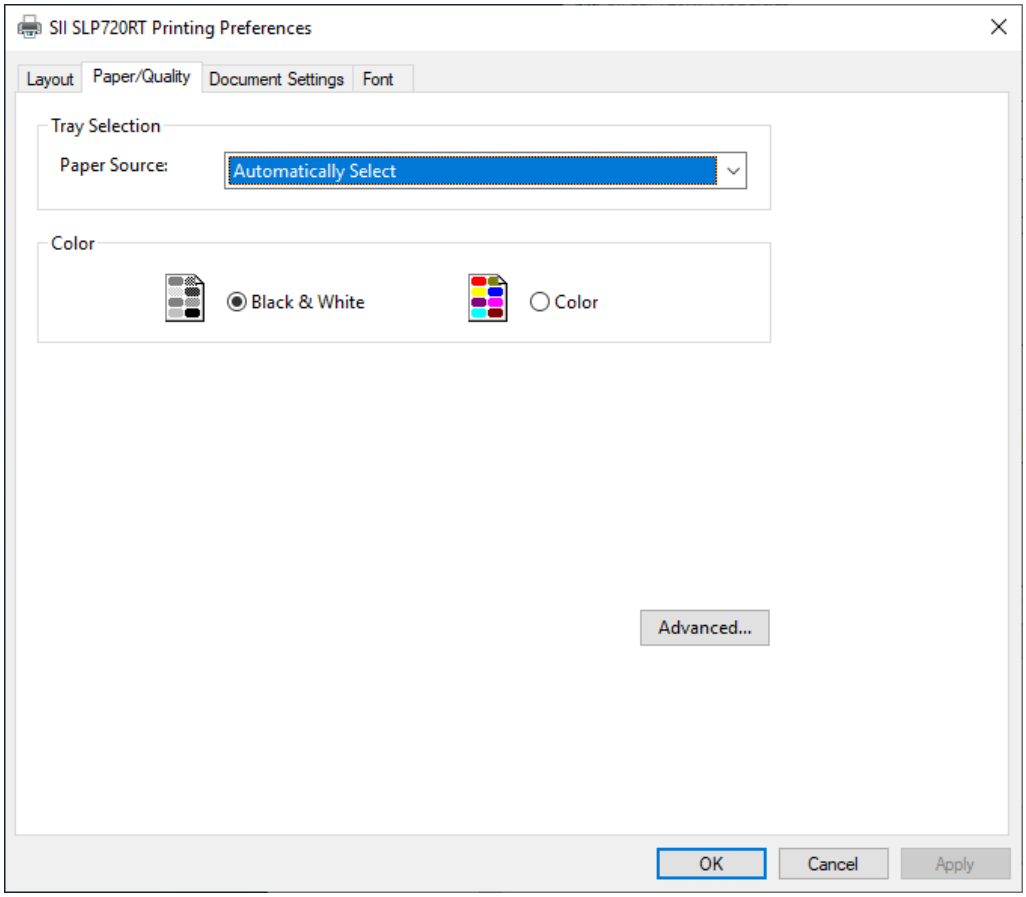


Figure 3-2 [Paper/Quality] Window

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 "3.5 Advanced Options".

*1: When "Color" is selected, only "Auto Select" can be selected in [Halftoning] described in "3.5 Advanced Options".

*2: This setting works in conjunction with [Color Printing Mode] in "3.5 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.

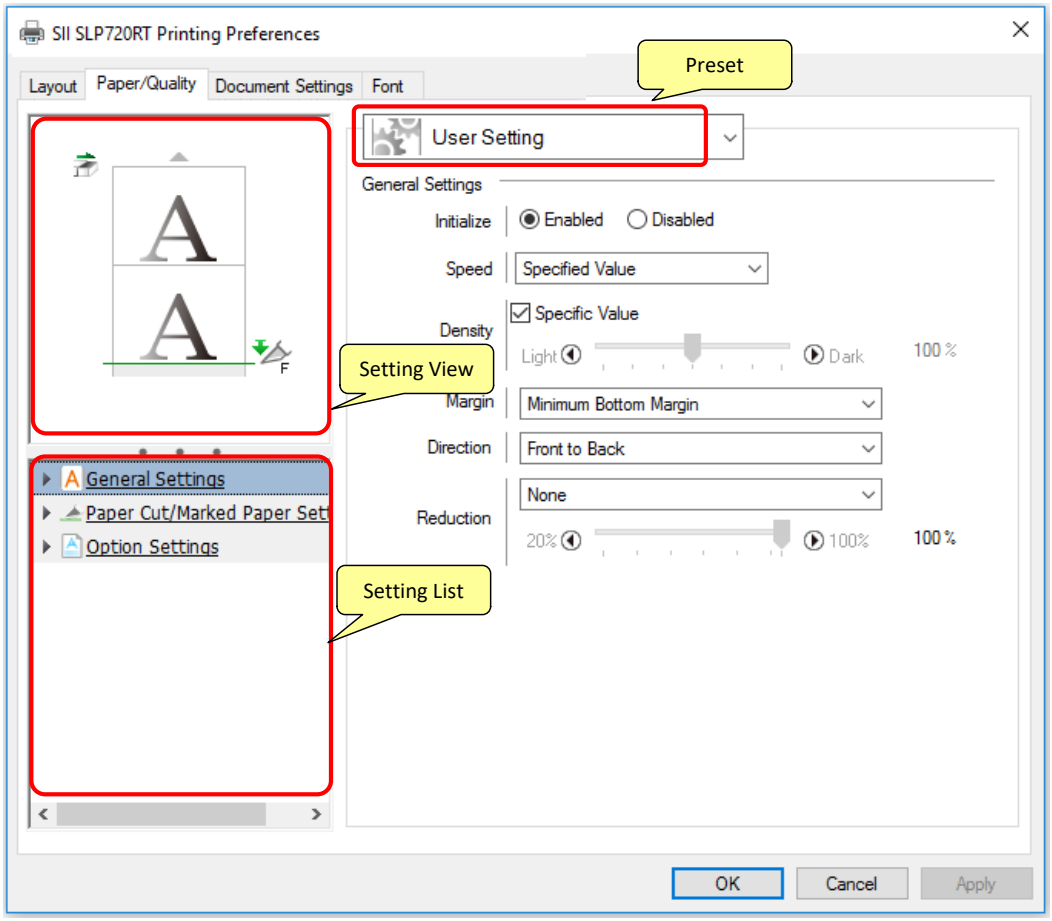


Figure 3-3 **[Document Settings] Window**

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 select 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.

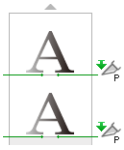
Item	Description (" ": Default)
Preset	Sets previously registered settings at a time for a specific usage. ・ 40 mm Receipt Setting*1 ・ 40 mm Marked Paper Setting*1 ・ 58 mm Receipt Setting ・ 58 mm Marked Paper Setting (Label) ・ A4->40 mm Reduction Setting*1 ・ A4->58 mm Reduction Setting ・ User Setting*2 For details of the settings of each "Preset", see "3.3.4 Use of Preset".

*1: Supported only by linerless label.

*2: 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 "3.5.1 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.

<table>
<tr><th>Item</th><th colspan="4">Mark</th></tr>
<tr><td>Orientation</td><td colspan="2">
Portrait*1</td><td colspan="2">
Landscape*1</td></tr>
<tr><td>Density</td><td colspan="2">
Light</td><td colspan="2">
Dark</td></tr>
<tr><td>Margin</td><td>
Minimum Margin</td><td>
Minimum Top Margin</td><td>
Minimum Bottom Margin</td><td>
Maximum Margin</td></tr>
<tr><td>Direction</td><td colspan="2">
Front to Back*2</td><td colspan="2">
Back to Front*2</td></tr>
<tr><td rowspan="2">Paper Cut</td><td>
None</td><td>
Full Cut (Each job)</td><td>
Partial Cut (Each job)</td></tr>
<tr><td>
Full Cut (Each page)</td><td>
Partial Cut (Each page)</td><td>
Partial Cut (Between pages)</td></tr>
<tr><td>Feed to Cut Position</td><td colspan="2">
Enabled</td><td colspan="2">
Disabled</td></tr>
<tr><td>Drawer</td><td colspan="4"> *3</td></tr>
</table>

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

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

*3: The mark is displayed at the upper left when the drawer is set to [Print Start], and at the lower right when the drawer is set to [Print End] in "3.3.7 Option Settings".

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.
Paper Cut/Marked Paper Settings	Sets paper cut operation, and black mark detection operation when using marked paper.
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 change any setting item in "Preset", "Preset" is canceled at that time and changed to "User Setting".
When change "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.

Preset Type	Item	Description
40 mm Receipt Setting	Advanced Options	
	Paper Size	40 mm (36 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Cut/Marked Paper Settings	
	Paper Cut	Full cut (Each job)
	Feed to Cut Position	Enabled
	Marked Paper Form Feed	Disabled
	Form Feed Position Correct	0 dots
	Option Settings	
	Print Start	
	Drawer	Drawer 1
	ON Time	50 ms
	OFF Time	200 ms
40 mm Marked Paper Setting	Advanced Options	
	Paper Size	40 mm (36 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Cut/Marked Paper Settings	
	Paper Cut	Full cut (Each page)
	Feed to Cut Position	Disabled
	Marked Paper Form Feed	Each Page
	Form Feed Position Correct	0 dots
	Option Settings	
	Print Start	
	Drawer	Disabled
	ON Time	50 ms
	OFF Time	200 ms

Preset Type	Item	Description
58 mm Receipt Setting	Advanced Options	
	Paper Size	58 mm (54 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Cut/Marked Paper Settings	
	Paper Cut	Full cut (Each job)
	Feed to Cut Position	Enabled
	Marked Paper Form Feed	Disabled
	Form Feed Position Correct	0 dots
	Option Settings	
	Print Start	
	Drawer	Drawer 1
	ON Time	50 ms
	OFF Time	200 ms
58 mm Marked Paper Setting (label)	Advanced Options	
	Paper Size	58 mm (52 x 3276 mm)
	Document Settings	
	General Settings	
	Reduction	None
	Paper Cut/Marked Paper Settings	
	Paper Cut	Full cut (Each page)
	Feed to Cut Position	Disabled
	Marked Paper Form Feed	Each Page
	Form Feed Position Correct	0 dots
	Option Settings	
	Print Start	
	Drawer	Disabled
	ON Time	50 ms
	OFF Time	200 ms

Preset Type	Item	Description
A4->40 mm Reduction Setting	Advanced Options	
	Paper Size	A4
	Document Settings	
	General Settings	
	Reduction	Fit 40 mm Width
	Paper Cut/Marked Paper Settings	
	Paper Cut	Full cut (Each page)
	Feed to Cut Position	Disabled
	Marked Paper Form Feed	Each Page
	Form Feed Position Correct	0 dots
	Option Settings	
	Print Start	
	Drawer	Disabled
	ON Time	50 ms
	OFF Time	200 ms
A4->58 mm Reduction Setting	Advanced Options	
	Paper Size	A4
	Document Settings	
	General Settings	
	Reduction	Fit 58 mm Width
	Paper Cut/Marked Paper Settings	
	Paper Cut	Full cut (Each page)
	Feed to Cut Position	Disabled
	Marked Paper Form Feed	Each Page
	Form Feed Position Correct	0 dots
	Option Settings	
	Print Start	
	Drawer	Disabled
	ON Time	50 ms
	OFF Time	200 ms

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	Specified Value
	Margin	Minimum Bottom Margin
	Direction	Front to Back
	Option Settings	
	(Common to all timings)	
	Enable/Disable Logo	Disabled
	Feed	0 dots
	External Buzzer	OFF
	Send Command	(Blank)
	Print End	
	Drawer	Disabled
	ON Time	50 ms
	OFF Time	200 ms

3.3.5 General Settings

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

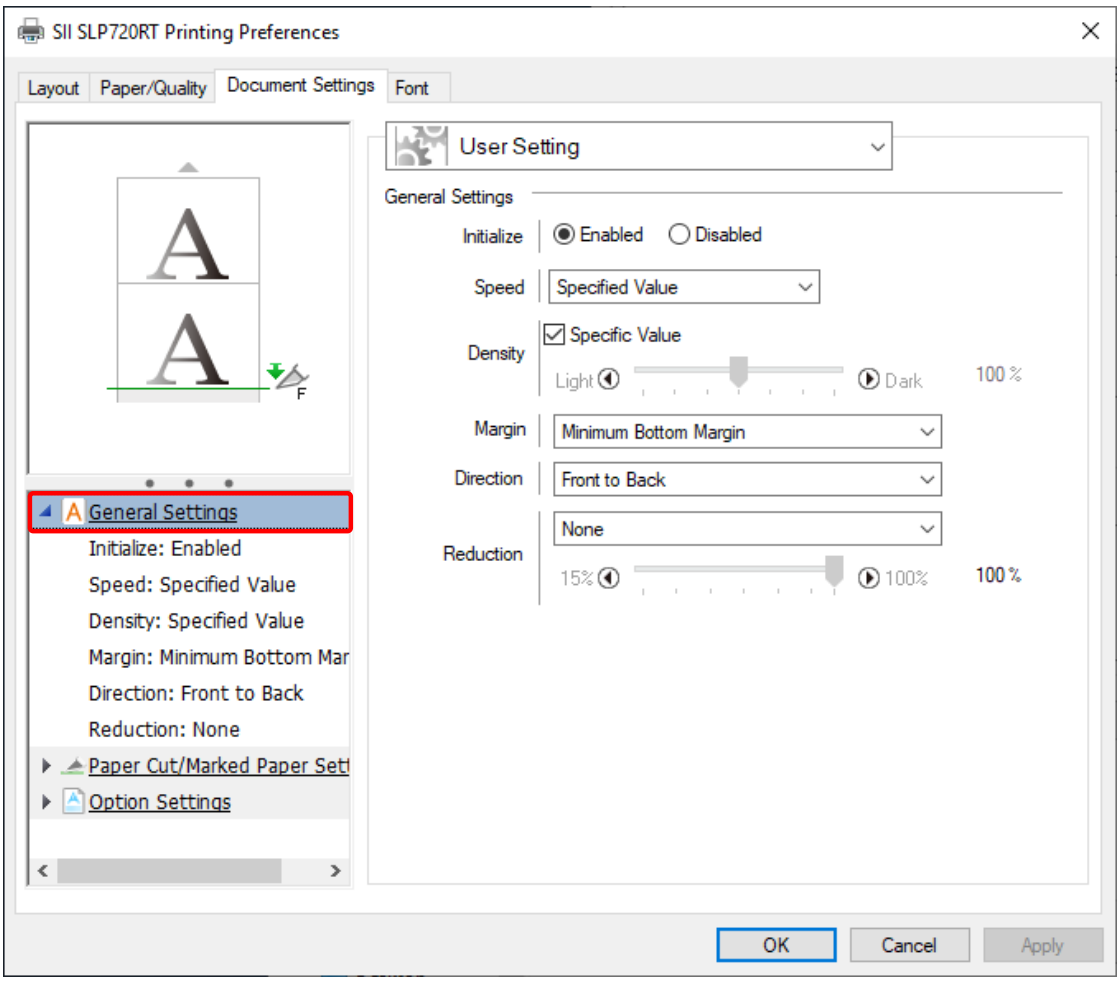


Figure 3-4 [General Settings] Window

Item	Description (" ": Default)
General Settings	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 ・ Middle*2 ・ High*2
Density	Sets the print density (Unit: %). ・ Specified Value*1 ・ 70 to 130
Margin	Selects for the margin. ・ Minimum Margin*3 ・ Minimum Top Margin ・ Minimum Bottom Margin*3 ・ Maximum Margin

Item		Description (" ": Default)
	Direction*4	Selects for the paper feed direction. ・ Front to Back ・ Back to Front
	Reduction*5	Sets the reduction print. ・ None ・ Fit 40 mm Width*6 ・ Fit 58 mm Width ・ Fit 58 mm Label Width ・ Scale [15 to 100] (Unit: %)

*1: Follows the printer settings.
*2: For details of the print speed, see "User's Guide".
*3: When the print size is less than 25 mm, paper is fed to be 25 mm.
*4: When select "Back to Front", the IPD font cannot be used.
*5: When select other than "None", the IPD font cannot be used.
*6: Supported only by linerless label.

Reference

- Direction
  When set [Direction] to "Back to Front", available to rotate the print data by 180°.
- Margin
  When set [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 Cut / Marked Paper Settings

Select [Paper Cut/Marked Paper Settings] in the "Setting List" to display the window below.

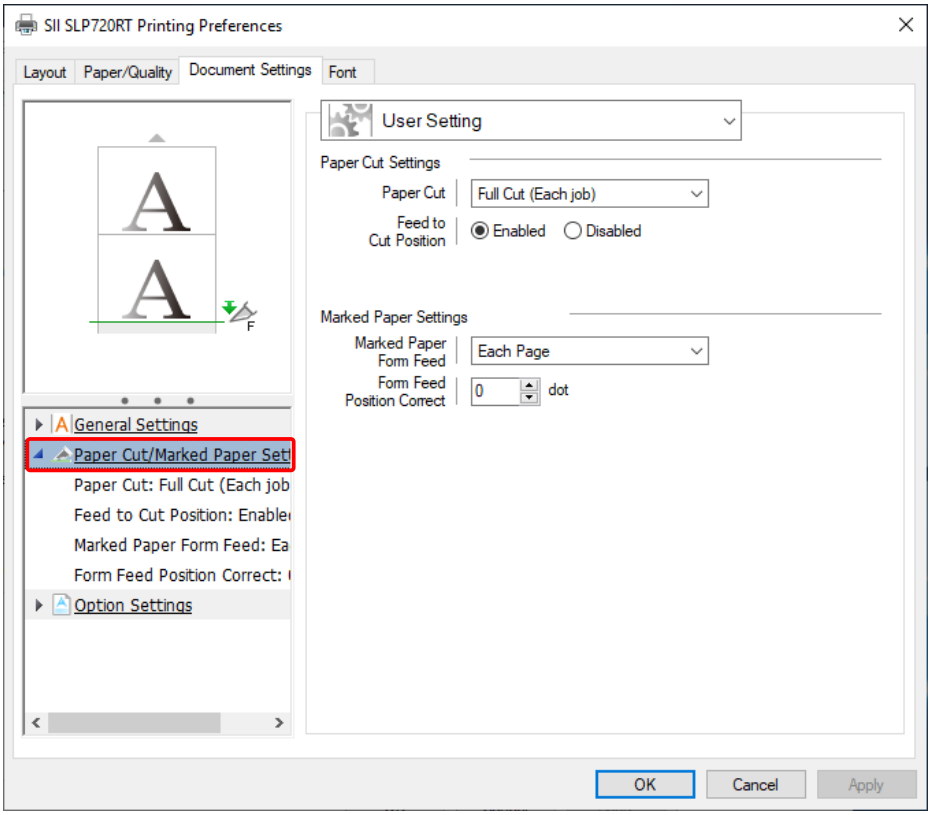


Figure 3-5 [Paper Cut/Marked Paper Settings] Window

Item	Description (" ": Default)
Paper Cut Settings	Sets the paper cut and the paper feed to the cutting position.
Paper Cut	Selects for the paper cut method. ・ None ・ Full Cut (Each job) ・ Partial Cut (Each job) *1 ・ Full Cut (Each page) ・ Partial Cut (Each page) ・ Partial Cut (Between pages)*2
Feed to Cut Position	Selects whether or not to feed to the cutting position. ・ Enabled ・ Disabled
Marked Paper Settings	Sets black mark detecting operation for using marked paper.
Marked Paper Form Feed*3	Sets black mark detecting operation. ・ Disabled ・ Each Page*3 ・ Each Job*3
Form Feed Position Correct	Sets feed position correction (unit: dot). ・ -68 to 255 (0)

*1: If the paper is fed backward on the next print while selecting the partial cut, paper jams or paper tears may occur.

*2: The last page is a full cut.

*3: The paper is fed to the cut position after the marked paper form feed when it is used together with the "None" in the Paper Cut.

3.3.7 Option Settings

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

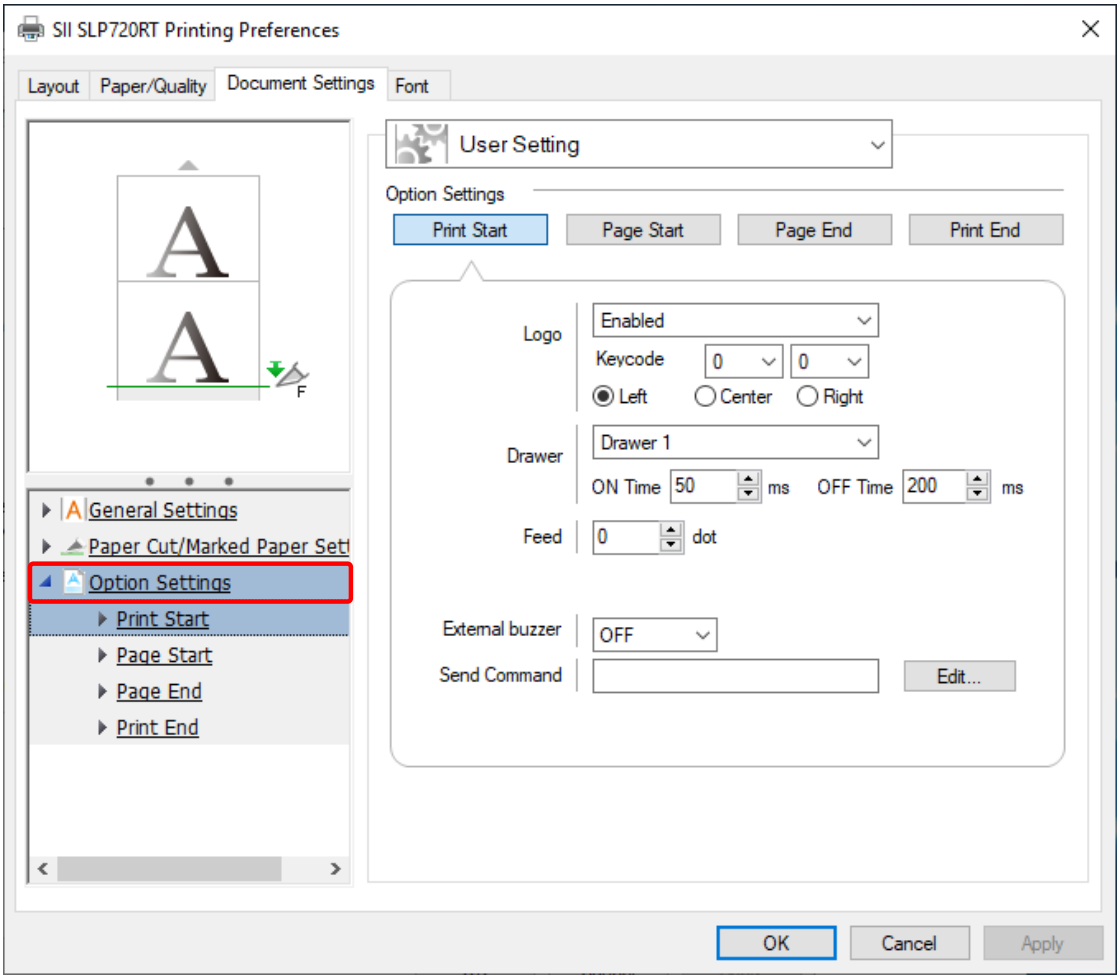


Figure 3-6 [Option Settings] Window

Item	Description (" ": Default)
Option Settings	Sets parameters about the logo, drawer, paper feeding, external buzzer, 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. ・ " "(0x20, 0x20) to "99" (0x39, 0x39) ("00" (0x30, 0x30))
Logo Position	Selects for the position to print the logo. ・ Left ・ Center ・ Right

Item	Description (" ": Default)
Drawer[*1]	Sets parameters about the drawer.[*2]
Drawer Selection	Selects for the drawer to use.[*3] ・ Disabled[*4] ・ Drawer 1 ・ Drawer 2
ON Time	Enters the ON time of the drawer in even number. (Unit: ms)[*5] ・ 2 to 510 (50)
OFF Time	Enters the OFF time of the drawer in even number. (Unit: ms)[*5] ・ 2 to 510 (200)
Feed	Sets the length of paper feed. (Unit: dot)[*6] ・ -68 to 255 (0)
External Buzzer[*7]	Sets sounding of the external buzzer.
Buzzer Pattern	Selects the buzzer pattern.[*8] ・ OFF ・ Pattern 1 ・ Pattern 2 ・ Pattern 3 ・ Pattern 4
Buzzer Frequency[*9]	Sets the number of buzzer sounds. (Unit: times) ・ 1 to 255
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".

*1: Supported only by SLP721RT.
For the control time of the drawer, follow your drawer's specification.
*2: Only either of [Print Start] or [Print End] can be specified.
*3: Using the drawer turns the external buzzer to "OFF".
*4: The default of [Print Start] and [Print End].
*5: If an odd number is entered, it is internally rounded to a value within the range.
*6: When the memory switch MS17-1 to 2 (Paper Saving) of the printer is set to other than "Disable" and the paper feed is set to other than "0", the printer may not operate as specified.
*7: Supported only by SLP721RT.
*8: Using the external buzzer sets the drawer to "Disabled".
*9: The external buzzer sound stops under one of the following conditions:
・Sounding for the set number of times
・Opening the cover
・Executing the printer command "Stop External Buzzer"

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" for SLP720RT/SLP721RT series.

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.

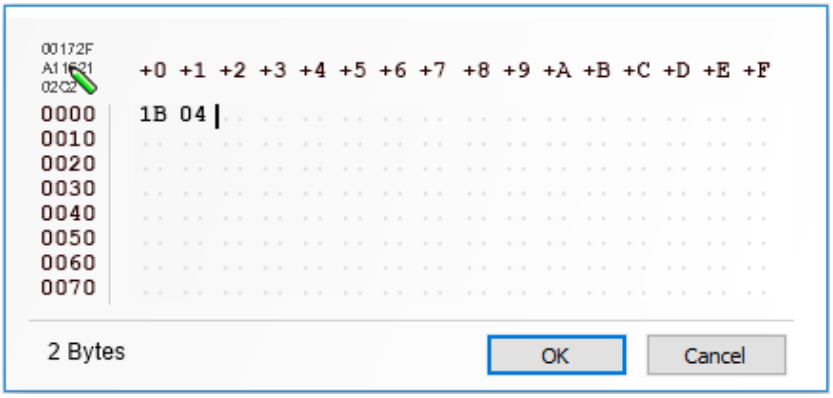


Figure 3-7 [Binary editor] Window

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"

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.

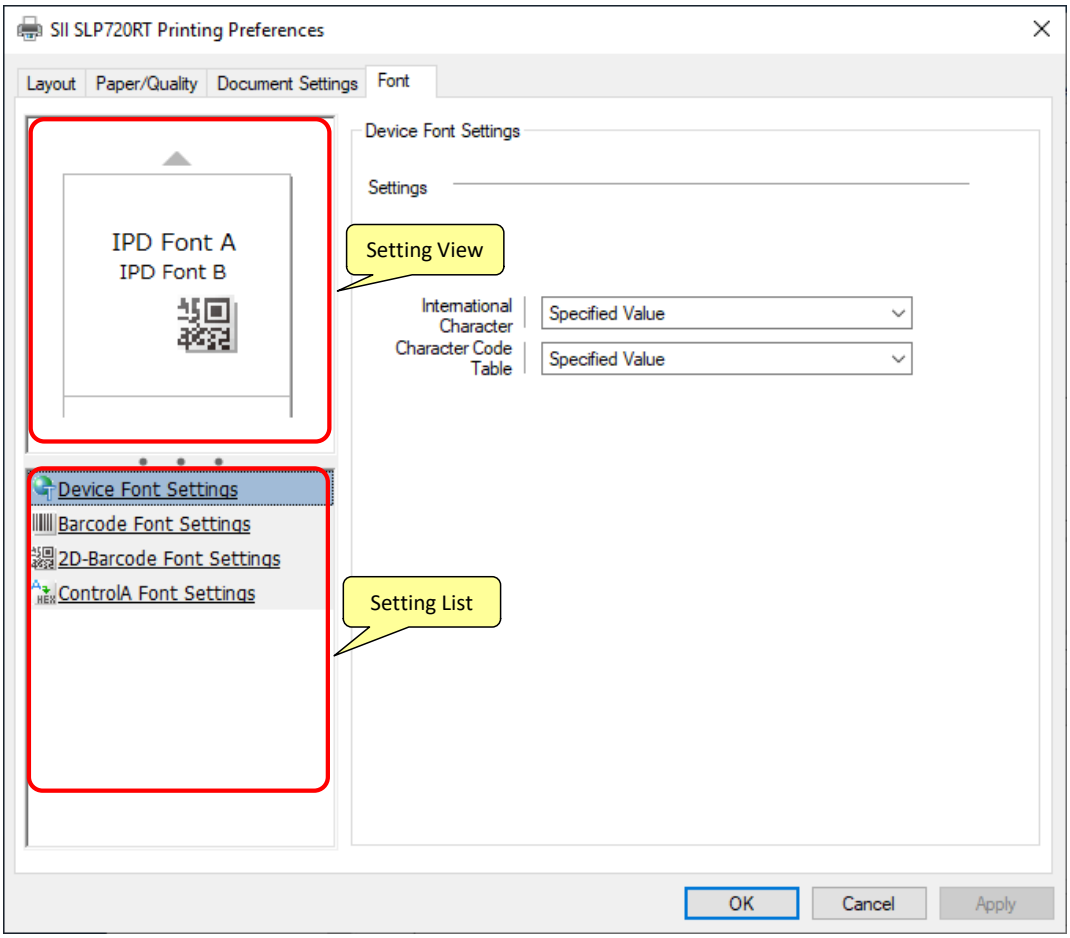


Figure 3-8 [Font] Window

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 select 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.

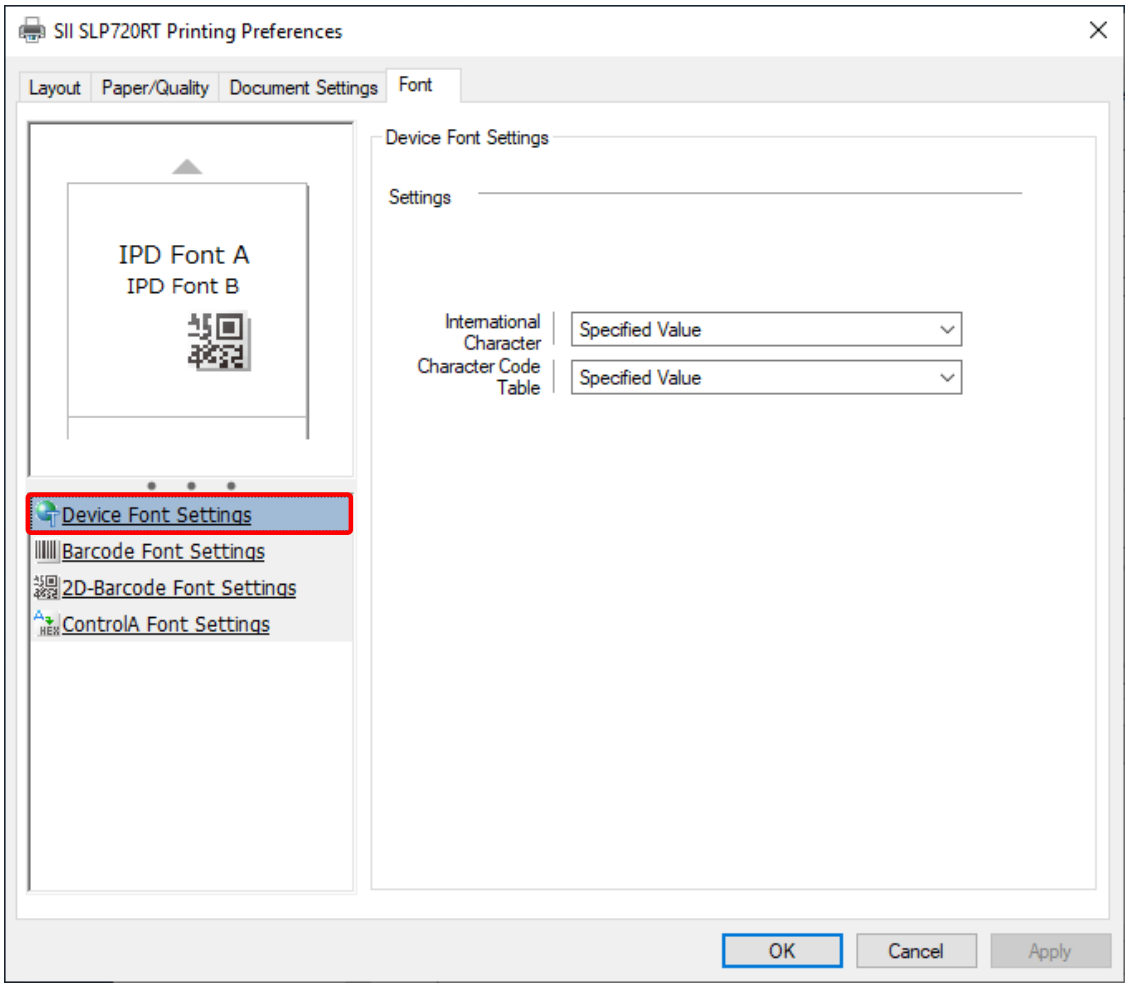


Figure 3-9 [Device Font Settings] Window

Item	Description (" ": Default)
Settings	Sets parameters about the device font.
International Character	Selects for the international character. ・ Specified Value*1 ・ 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	Selects for the character code table. ・ Specified Value*1 ・ USA, Standard Europe (Code Page437) ・ Katakana ・ Multilingual (Code Page850) ・ Portuguese (Code Page860) ・ Canadian-French (Code Page863) ・ Nordic (Code Page865) ・ Turkish (Code Page857) ・ Greek (Code Page737) ・ Latin (Code Page1252) ・ Russian (Code Page866) ・ Eastern Europe (Code Page852) ・ Euro (Code Page858) ・ Cyrillic (Code Page855) ・ Arabic (Code Page864) ・ Central European (Code Page1250) ・ Cyrillic (Code Page1251) ・ Greek (Code Page1253) ・ Turkish (Code Page1254) ・ User Page

*1: Follows the printer settings.

3.4.5 Barcode Font Settings

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

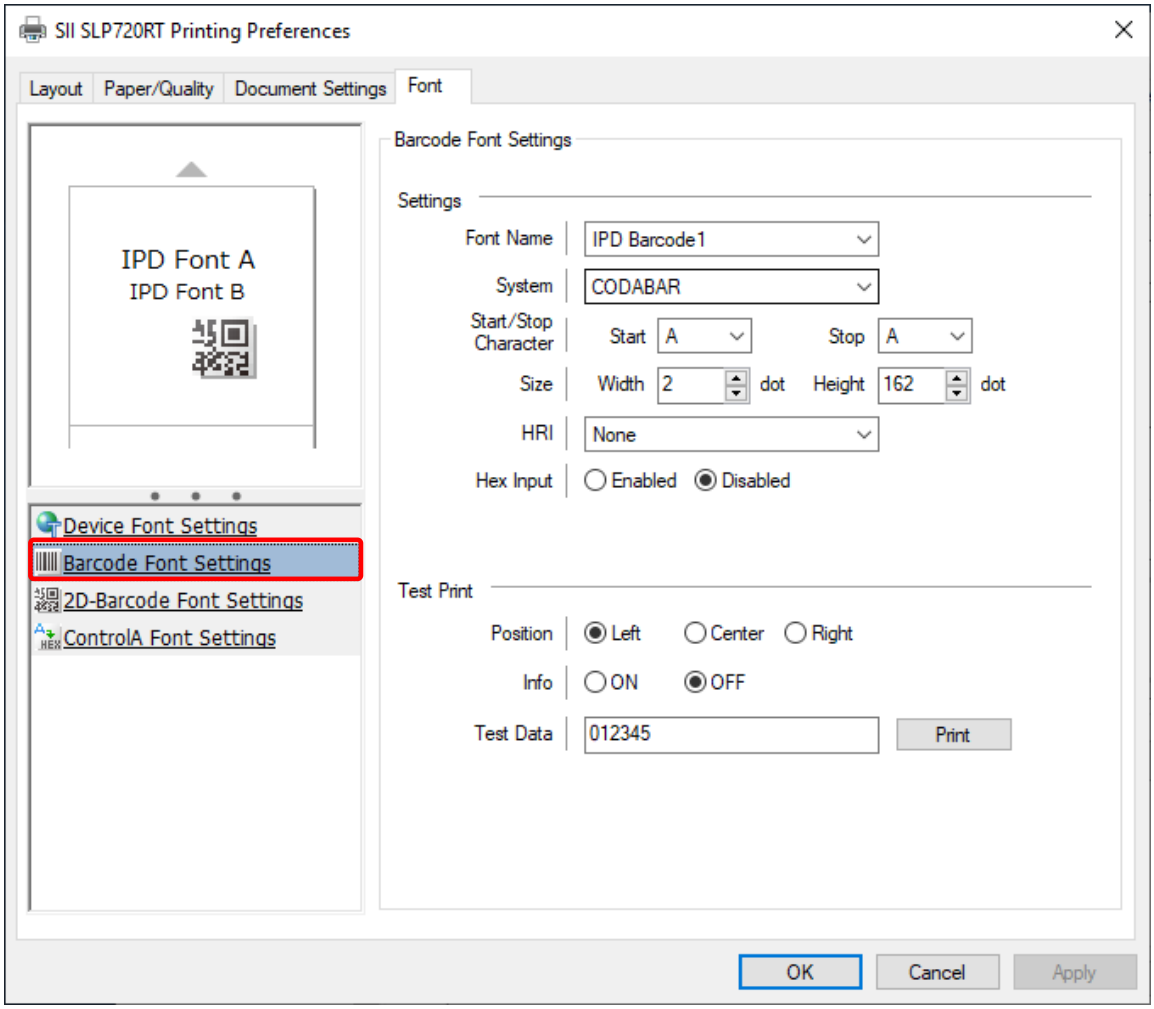


Figure 3-10 [Barcode Font Settings] Window

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

Item	Description (" ": Default)
System	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 ・ GS1 Databar Omni-directional ・ GS1 Databar Truncated ・ GS1 Databar Limited ・ GS1 Databar Expanded
Start/Stop Character[*12]	Sets the start character and stop character.
Start	Selects for the start character of "CODABAR". ・ A ・ B ・ C ・ D
Stop	Selects for the stop character of "CODABAR". ・ A ・ B ・ C ・ D
Size	Sets the barcode size.
Width	Sets the narrow element width or module width of the barcode in dots. ・ 2 to 6 (2)
Height	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.[*13] ➢ GS1 Databar Omni-directional ➢ GS1 Databar Truncated ➢ GS1 Databar Limited ➢ GS1 Databar Expanded
HRI	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)
Hex Input	Select [Enabled] when the barcode font data or [Test Data] is entered in hexadecimal.[*14] ・ Enabled ・ Disabled

Item	Description (" ": Default)
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.*14
Print	Prints the barcode with the input settings and [Test Data].*15

*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: Displayed only when "CODABAR" is selected in [System].
*13: The range of the barcode size is as shown 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

*14: 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".

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

3.4.6 2D-Barcode Font Settings

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

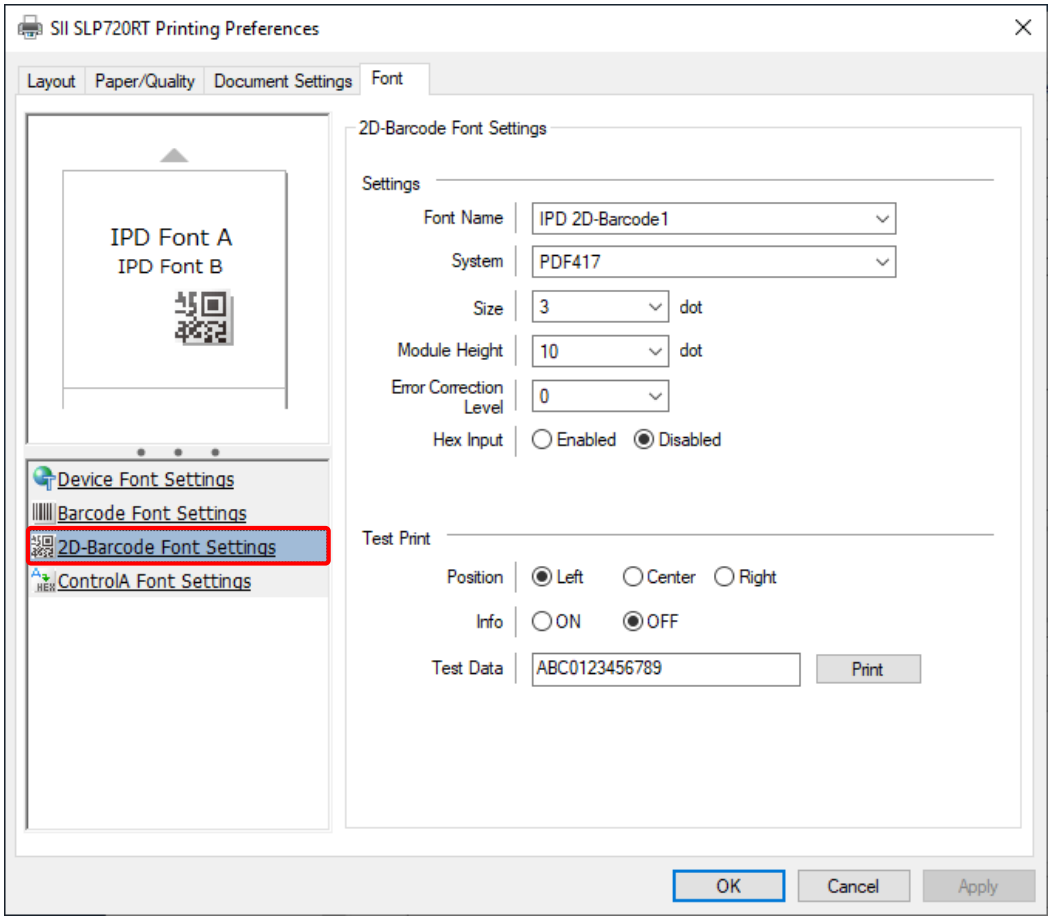


Figure 3-11 [2D-Barcode Font Settings] Window

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
	System	Selects for the system of the 2D-Barcode. ・ QR Code Model-2[*2] ・ PDF417[*3] ・ Data Matrix[*4] ・ Maxi Code[*5] ・ GS1 Databar Stacked[*6] ・ GS1 Databar Stacked Omni-directional ・ GS1 Databar Expanded Stacked
	Size[*7]	Sets 1 module size in dots. ・ 2 to 16[*8] (6) ・ 2 to 8[*9] (3)
	Module Height[*10]	Sets the module height in dots. ・ 2 to 127[*11] (10) ・ 33 to 255[*12]
	Error Correction Level[*13]	Selects for the QR Code error correction level.[*14] ・ L ・ M ・ Q ・ H Selects for PDF417 error correction level. ・ 0 to 8[*15] (0)
	Mode[*16]	Selects for mode of Maxi Code. ・ Mode 2 ・ Mode 3 ・ Mode 4 ・ Mode 5

Item	Description (" ": Default)
Module[*17]	Selects the number of modules. ・ 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[*18]	Sets the number of segments. ・ 2 to 20
Hex Input	Select [Enabled] when the barcode font data or [Test Data] is entered in hexadecimal.[*19] ・ Enabled ・ Disabled
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.[*19]
Print	Prints the 2D-Barcode with the input settings and [Test Data].[*20]

*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: The default when "IPD 2D-Barcode5" is selected in [Font Name].
*7: 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

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

*9: The range only when "PDF417" is selected in [System].
*10: Displayed only when any of the following is selected in [System].
- PDF417
- GS1 Databar Stacked Omni-directional

*11: The range only when "PDF417" is selected in [System].
*12: The range only when "GS1 Databar Stacked Omni-directional" is selected in [System].
*13: Displayed only when any of the following is selected in [System].
- QR Code Model-2
- PDF417

*14: The range only when "QR Code Model-2" is selected in [System].
*15: The range only when "PDF417" is selected in [System].
*16: The range only when "Maxi Code" is selected in [System].
*17: Displayed only when "Data Matrix" is selected in [System].
*18: Displayed only when "GS1 Databar Expanded Stacked" is selected in [System].
*19: 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
*20: Not available when the [Test Data] is blank.

3.4.7 ControlA Font Settings

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

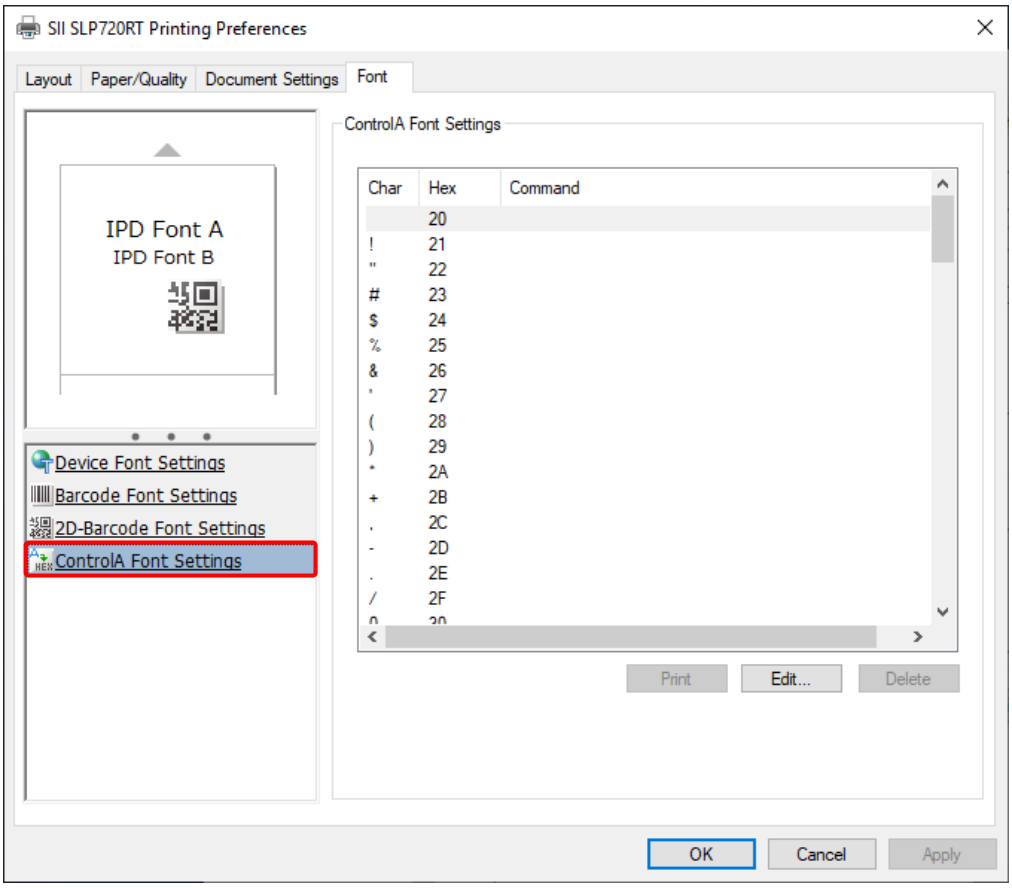


Figure 3-12 [ControlA Font Settings] Window

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.*1
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*2

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

*2: 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 Advanced Options

3.5.1 Advanced Options Settings

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

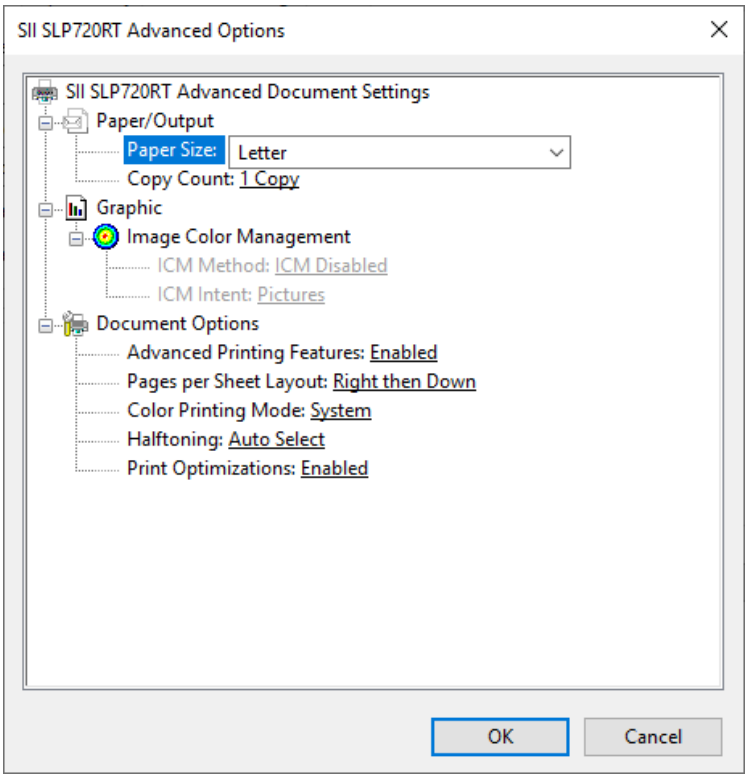


Figure 3-13 [Advanced Options] Window

Item		Description (" ": Default)
Paper/Output		Sets the paper size and the number of copies.
	Paper Size	Selects for the paper size to use.*1 ・ 40 mm (36 x 3276mm)*2 ・ 40 mm (36 x 297mm)*2 ・ 58 mm (54 x 3276mm) ・ 58 mm (54 x 297mm) ・ 58 mm (52 x 3276mm) ・ 58 mm (52 x 297mm) ・ A4*3 ・ Letter*4
	Copy Count	Enters the number of copies to print (Unit: Copy). ・ 1 to 9999

Item	Description (" ": Default)
Graphic	Sets the ICM method and intent.*5
ICM Method	Selects for the ICM method. ・ ICM Disabled ・ ICM Handled by Host System ・ ICM Handled by Printer
ICM Intent	Selects for the ICM intent. ・ Graphics ・ Pictures ・ Proof ・ Match
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".*6
Halftoning	Selects for the halftoning.*7 ・ Auto Select ・ Super Cell ・ Dither 2x2 ・ Dither 4x4 ・ Dither 6x6 ・ Dither 8x8
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: Supported only by linerless label.
*3: The default in the Japanese environment.
*4: The default in the environment other than Japanese.
*5: Available only when select "Color" for [Color] in "3.2 Paper/Quality".
*6: When select [System], [Color] in the [Paper/Quality] window is changed to "Black & White", or when select [Driver], [Color] in the [Paper/Quality] window is changed to "Color". For details, see "3.2 Paper/Quality".
*7: When select "Color" for [Color] in "3.2 Paper/Quality", only "Auto Select" can be selected.

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.

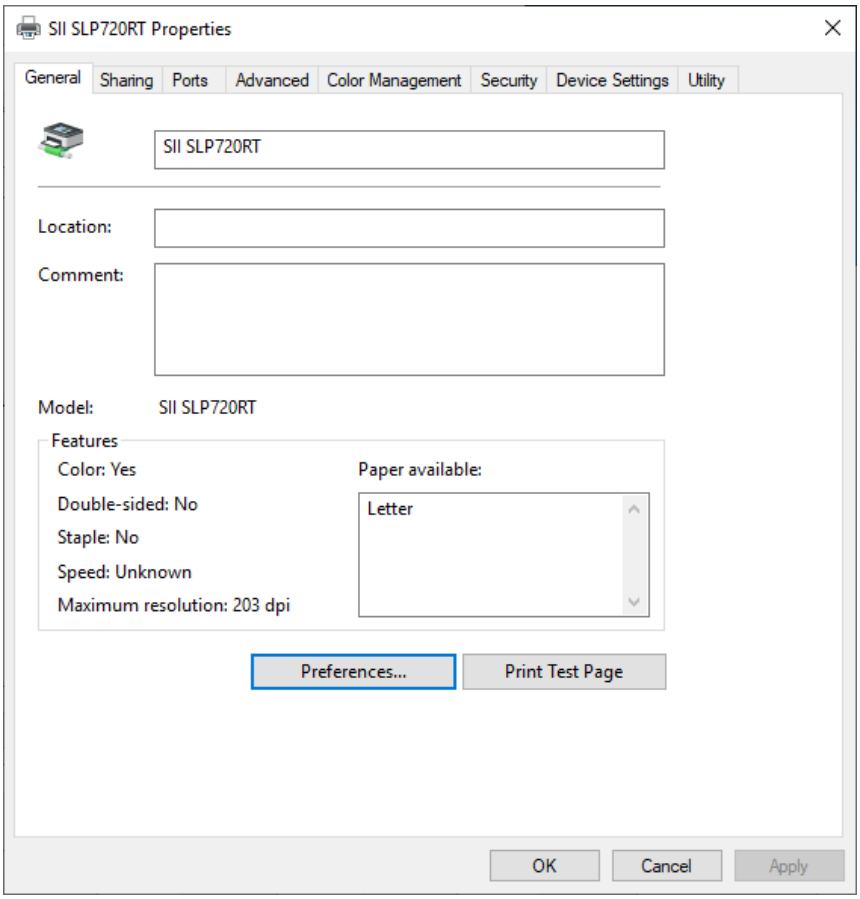


Figure 4-1 [General] Window

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: For 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 the shared printers.

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

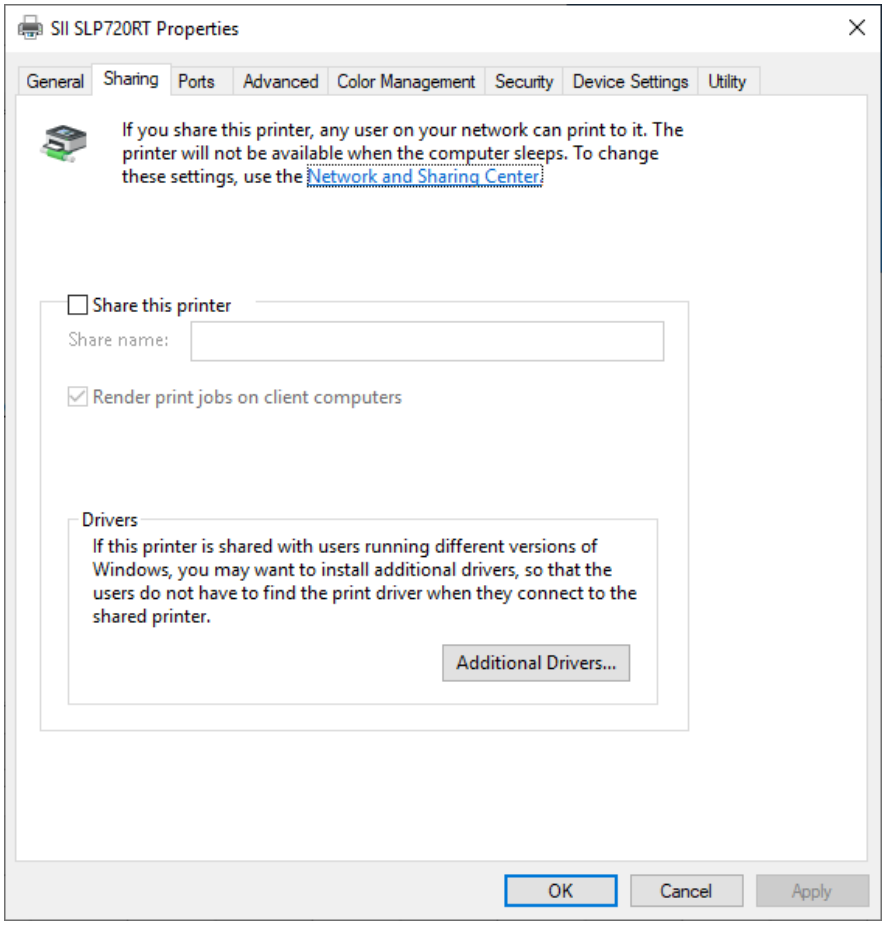


Figure 4-2 [Sharing] Window

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 the output ports.

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

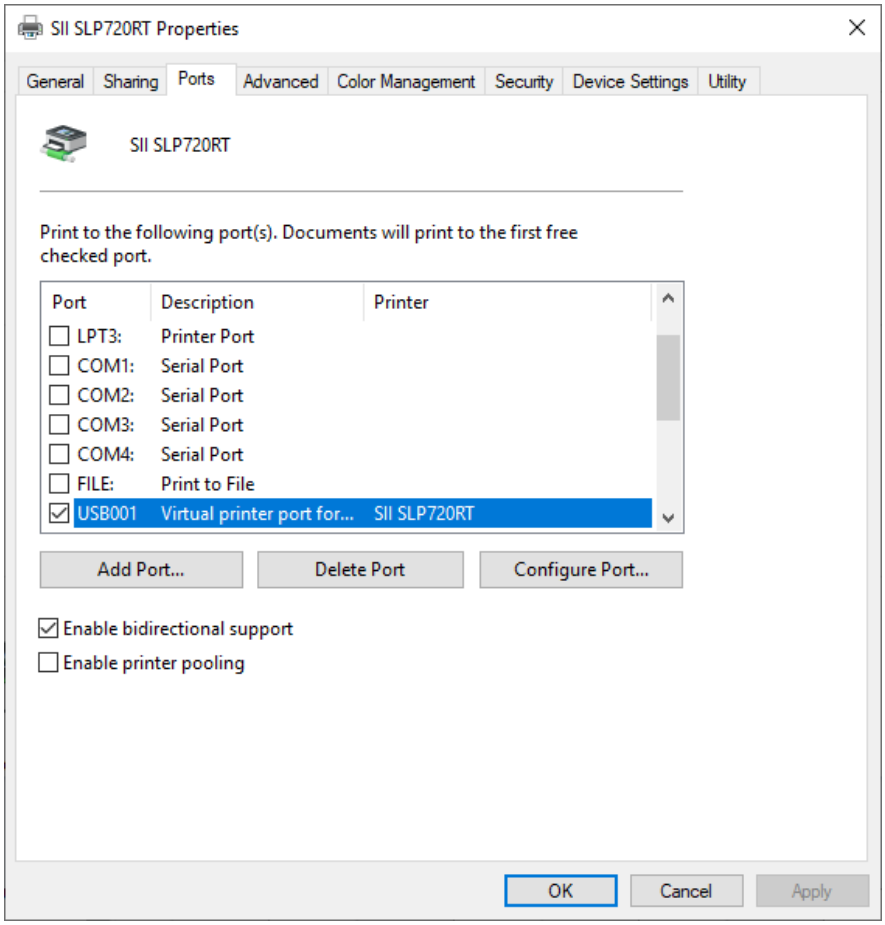


Figure 4-3 [Ports] Window

Item	Description
Add Port...	Adds ports.
Delete Port	Deletes ports.
Configure Port...	Sets parameters about the serial connection.*1
Enable bidirectional support	Select this check box to get the information from the printer.
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.*2

*1: This setting requires logon to the computer with administrator privileges.

*2: When using the SDK, be sure to clear this check box.

4.4 Device

Sets the devices.

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

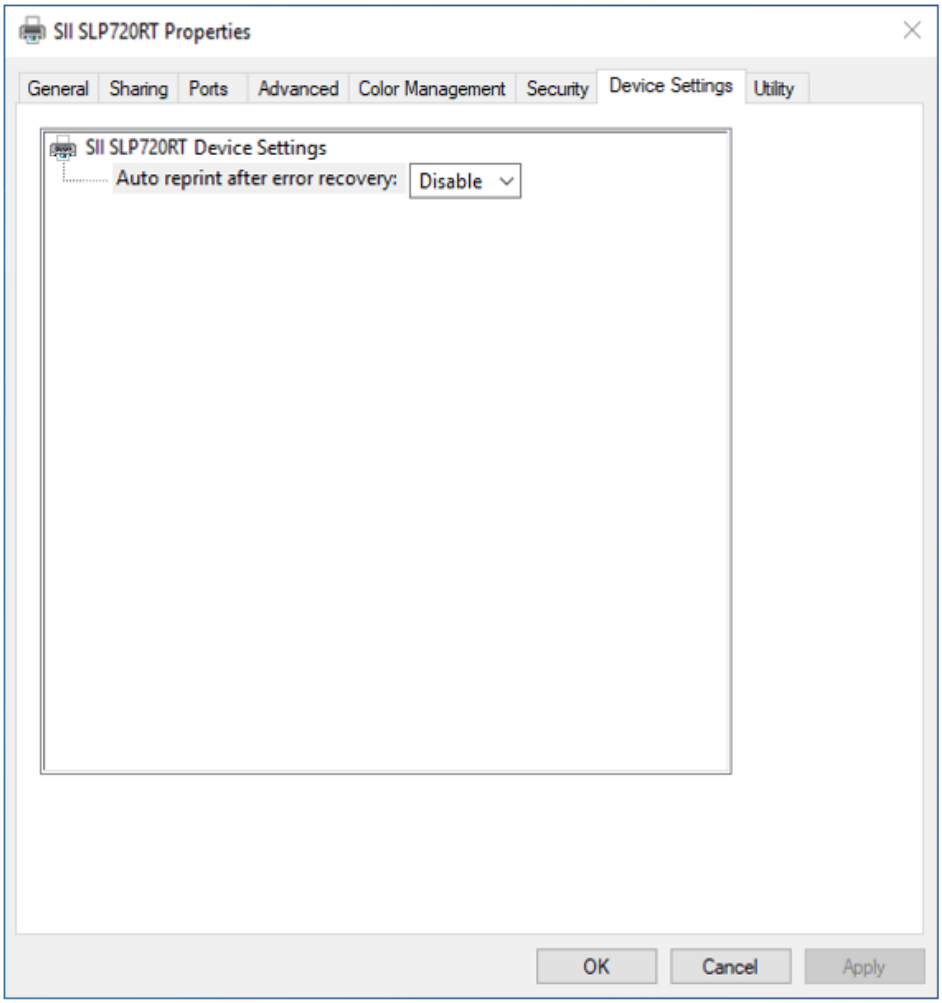


Figure 4-4 [Device Settings] Window

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

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

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

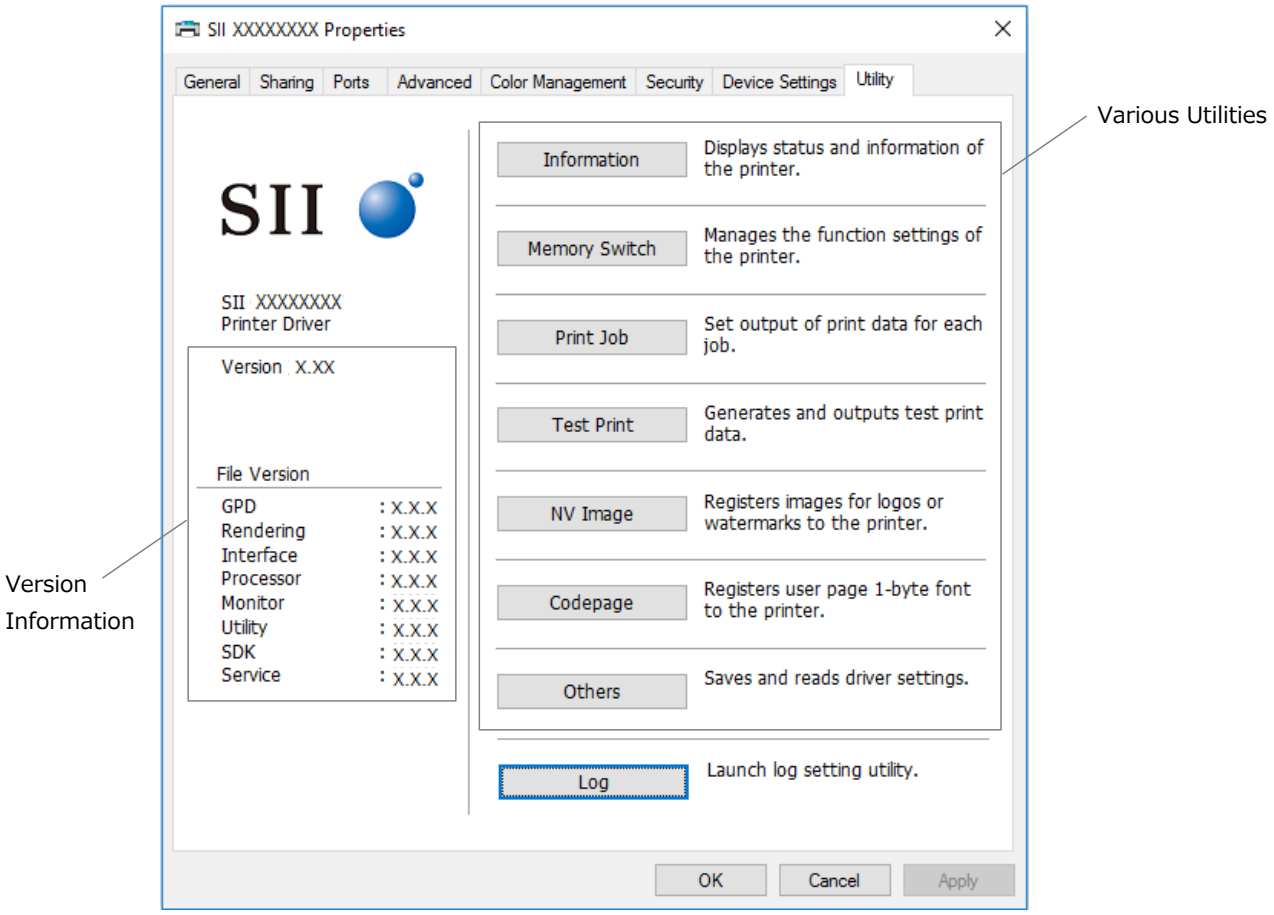


Figure 4-5 [Utility] Window

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.
Test Print	Executes the test print with arbitrary content.
NV Image	Edits and registers the image data to be used for logos or manages the registered NV images.

Item		Description
	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" for using the Log Setting Utility.

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

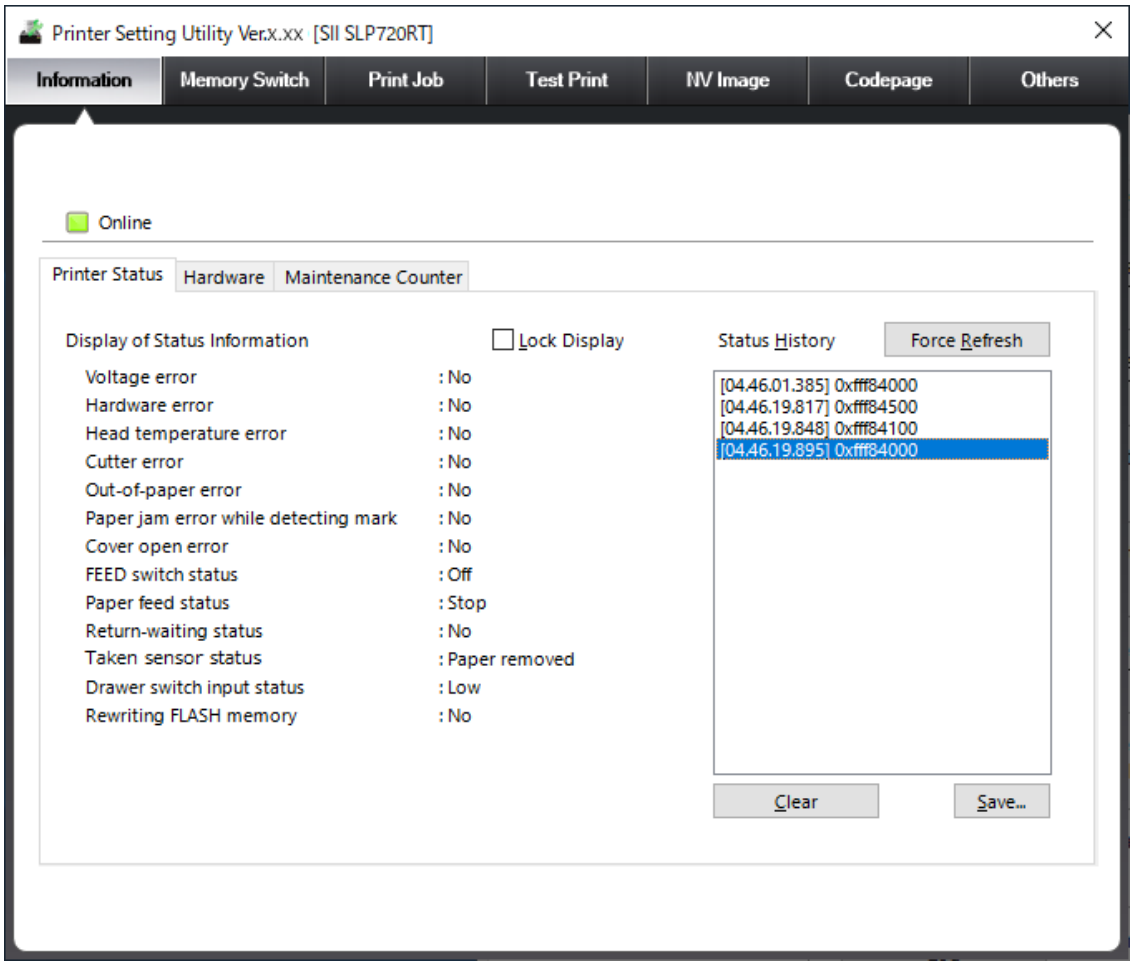


Figure 4-6 [Utility Setting] Window

See "SII Printer Setting Utility for Windows User's Guide" for SLP720RT/SLP721RT series 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 specify 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.

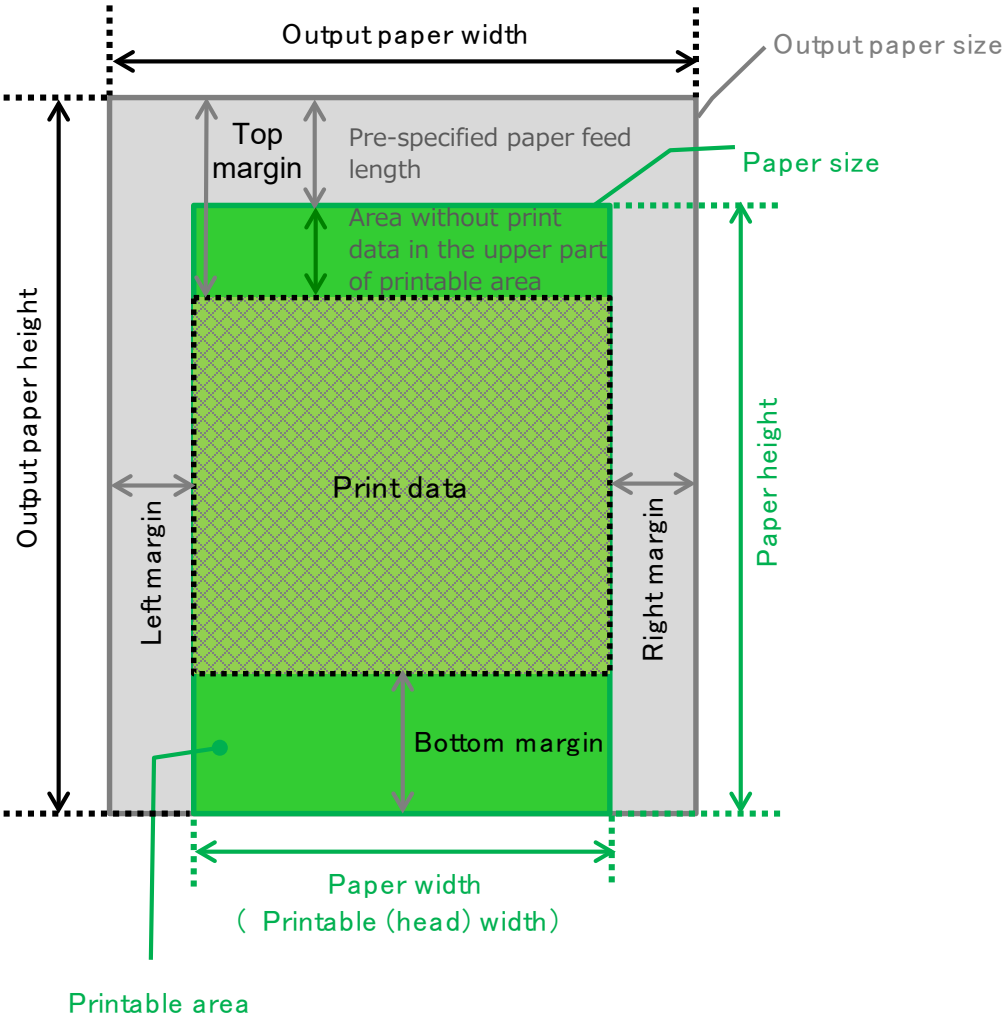


Figure 5-1 Print Image

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 Cut / 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 SLP720RT	40 mm	Standard paper	40 mm (36 x 3276 mm)	36 mm	3276 mm
			40 mm (36 x 297 mm)	36 mm	297 mm
		User defined paper	-	25.6 mm to 54 mm	25 mm to 3276 mm
	58 mm	Standard paper	58 mm (54 x 3276 mm)	54 mm	3276 mm
			58 mm (54 x 297 mm)	54 mm	297 mm
			58 mm (52 x 3276 mm)	52 mm	3276 mm
			58 mm (52 x 297 mm)	52 mm	297 mm
			A4	210 mm	297 mm
			Letter	215.9 mm	279.4 mm
		User defined paper	-	25.6 mm to 54 mm	25 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.

Output Paper Width	Paper Width	Driver Name	Left Margin
40 mm	36 mm	SII SLP720RT	2 mm
58 mm	54 mm		2 mm
	52 mm		3 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.

Paper Cut	Feed to Cut Position	Pre-specified Paper Feed Length
Full cut / Partial cut	Enabled	4.625 mm*1 / 13.125 mm*2
	Disabled	0.625 mm*3
None	-	0.625 mm*3

*1: When the Full cut is selected and the Minimum Top Margin is selected, the paper is automatically fed backward to minimize the top margin.
See "3.3.5 General Settings" for details.

*2: When the condition in *1 is not met, this value will be set.

*3: 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 Cut / Marked Paper Settings" is set to "Disabled" and cut the paper, 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.

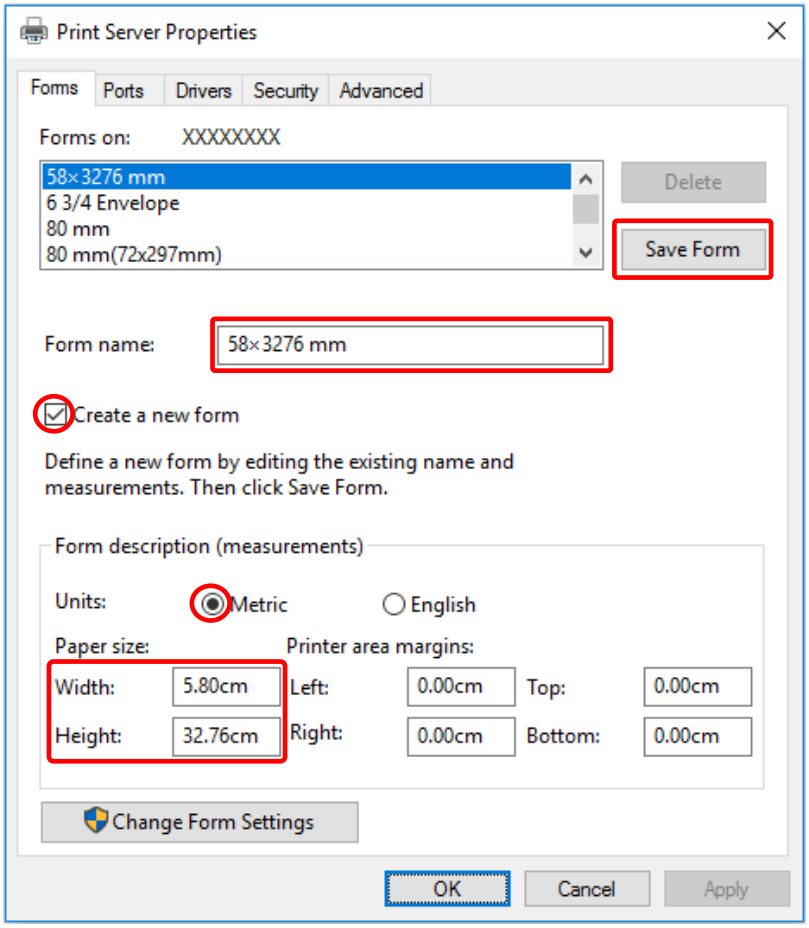


Figure 5-2 [Print Server Properties] Window

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 use 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"
- Special fonts are not displayed as images in the preview and edit windows.
- When use 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 specify italic for characters, it cannot be reflected.
- When specify 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
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 codepage 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
5	HT
6	LF
7	CR
a	Open drawer 2 for 50 ms*1
b	Open drawer 2 for 100 ms*1
c	Open drawer 2 for 150 ms*1
d	Open drawer 2 for 200 ms*1
e	Open drawer 2 for 250 ms*1
f	No paper feed + Full cut
g	No paper feed + Partiall cut
h	NV image "00" (0x30,0x30) print
i	NV image "01" (0x30,0x31) print
j	NV image "02" (0x30,0x32) print
k	NV image "03" (0x30,0x33) print
l	NV image "04" (0x30,0x34) print
m	Inversion (flip) printing specify
n	Inversion (flip) printing cancel
o	Reverse print specify
p	Reverse print cancel
q	Underline specify
r	Underline cancel
s	Bold print specify
t	Bold print cancel

Assigned Character	Action
u	Character 90 degrees right rotate specify
v	Character 90 degrees right rotate cancel
w	Alignment left
x	Alignment center
y	Alignment right
A	Open drawer 1 for 50 ms*1
B	Open drawer 1 for 100 ms*1
C	Open drawer 1 for 150 ms*1
D	Open drawer 1 for 200 ms*1
E	Open drawer 1 for 250 ms*1
G	NV image "00" (0x30,0x30) Normal print
H	NV image "01" (0x30,0x31) Normal print
I	NV image "02" (0x30,0x32) Normal print
J	NV image "03" (0x30,0x33) Normal print
K	NV image "04" (0x30,0x34) Normal print
P	Paper feed + Partial cut
Q	Paper feed + Full cut
[	NV image "00" (0x30,0x30) Quad print
]	NV image "01" (0x30,0x31) Quad print
^	NV image "02" (0x30,0x32) Quad print
_	NV image "03" (0x30,0x33) Quad print
`	NV image "04" (0x30,0x34) Quad print
-	-

*1: Supported only by SLP721RT.

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.