

BIXOLON

Software Manual

Windows Driver

THERMAL RECEIPT PRINTER

Ver. 1.20

www.bixolon.com

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Copyright

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BIXOLON Co., Ltd. maintains ongoing efforts to enhance and upgrade the functions and quality of all our products.

In the following, product specifications and/or user manual content may be changed without prior notice.

Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

Introduction

This Windows Driver Manual provides information on installation, detailed specifications, and usage of the printer's Windows Driver according to PC operating system (OS).

It is advisable to read the contents of this manual carefully before using the Windows Driver for the first time.

Manual Symbols Information



It provides additional information on the function and performance of the product.

1. Operating System (OS) Environment

The following operating systems are supported for usage.

Microsoft Windows 7 (32bit/64bit)
Microsoft Windows 8 (32bit/64bit)
Microsoft Windows 8.1 (32bit/64bit)
Microsoft Windows 10 (32bit/64bit)
Microsoft Windows 11 (64bit/ARM)
Microsoft Windows Server 2008 (32bit/64bit)
Microsoft Windows Server 2008R2 (64bit)
Microsoft Windows Server 2012/2012R2 (64bit)
Microsoft Windows Server 2016 (64bit)
Microsoft Windows Server 2019 (64bit)



- Serial and Parallel printer port do not work on Windows 10 version 1511 (OS Build 105860.104) specific. We recommend you to install the latest Windows 10 update through Windows Update before installing Windows Driver.
- You can download and install the Windows Update in the Update & security tab of the Settings menu.
( > Settings > Update & security > Windows Update).

2. Supported Printers

This manual provides information for the following printer drivers.

Models	Resolution
SRP-Q300/QE300/E300 SRP-380/380plus SRP-350III/350plusIII/350V/350plusV SRP-F310II SRP-330/330II/330III SRP-B300II BGT-100P	180 DPI
SRP-Q200 SRP-Q302/QE302/E302/Q300II SRP-382/382plus SRP-S300/S320/S3000/S200/S300II SRP-352III/352plusIII/352V/352plusV SRP-F312II/F313II SRP-332II/332III BGT-102P BK3-3 BK3-2 BK5-3/BK5-4 SRP-B300 SPP-200 G30 SRP-G300 SPP-300 SPP-C200/C300 SPP-R200/R200II/R200III SPP-R210/R220/R230 SPP-R300/R310/R318 SPP-R400/R410/R418	203 DPI
SRP-383	300 DPI

3. Windows Driver Preparation

The Windows Driver the latest file version can be downloaded from BIXOLON website.
(www.bixolon.com)

4. Windows Driver Installation

4-1 Installation

- 1) Double-click "Software_[Model name]_Windows_Driver_Vx.x.x.exe".
- 2) The Network Auto Installation function allows you to install drivers for the same network printer. Before using the function, the IP address of the printer must be set, so download the Net Configuration Tool from our website and set the IP address first.



- Administrator privilege may be required to run the installation file.
- In case of the printer's IP address is invalid or the printer is communicating with another application, etc., the printer cannot be searched through the Network Auto Installation function.
- **Supported Models for Network auto installation**
SRP-Q300/Q302/QE300/QE302/Q300II, SRP-380/382/383/380plus/382plus,
SRP-S300/S320/S3000/S200/S300II, SRP-350III/352III,
SRP-350plusIII/352plusIII,
SRP-F310II/F312II/F313II, SRP-B300, BK3-3,
SRP-330II/332II/330III/332III, SRP-E300, G30
SPP-C200/C300, SPP-R200/R200II/R200III
SPP-R210/R220/R230, SPP-R300/R310/R318
SPP-R400/R410/R418

- 3) Follow the instructions on the screen to complete the installation process.

4-2 Uninstallation

- 1) Open "Add or Remove Programs" or "Remove Programs" in the Control Panel.
 - * XP or Server 2003: Control Panel – Add or Remove Programs
 - * Vista or higher OS: Control Panel – Remove Programs
- 2) Double-click "BIXOLON [Model name] Windows Driver" to uninstall the installed windows drivers.

5. Windows Driver Settings

The following functions can be configured after installing the Windows driver.

5-1 Layout

The screenshot shows the 'Layout' tab of the Windows Driver Settings window. The window has three main tabs: 'Barcode', 'Dithering', and 'Utility'. The 'Layout' sub-tab is active, showing 'Document Settings'. The settings are organized into several sections:

- Paper:**
 - Paper Size: 80 x 3276 mm (with a dropdown arrow and an ellipsis button)
 - Paper Type: Receipt (with a dropdown arrow)
- Number of copies:**
 - Copies: 1 (with a spin button and a range of [1 .. 255])
- Orientation:**
 - ☒ Portrait
 - ☐ Landscape
- Image Rotation:**
 - ☒ Normal
 - ☐ Rotation by 90 Degrees [CW]
 - ☐ Rotation by 180 Degrees [CW]
 - ☐ Rotation by 270 Degrees [CW]
- Paper Reduction:**
 - ☐ Paper Reduction
 - Rate: 100% (with a dropdown arrow) and a text box for percentage
 - ☒ Disable reducing barcode
 - ☐ Enable reducing barcode
 - ☐ Pixel Interpolation
- Crop Function:**
 - ☐ Top Crop Length: 0 (with a spin button) [Pixel]
 - ☐ Bottom Crop Length: 0 (with a spin button) [Pixel]

- 1) Open the **Printer Properties** window and then click **Printing Preferences** in the **General** tab.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items) – (Devices and Printers) – (Right-click the icon of the printer) – (Click **Printer Properties**)

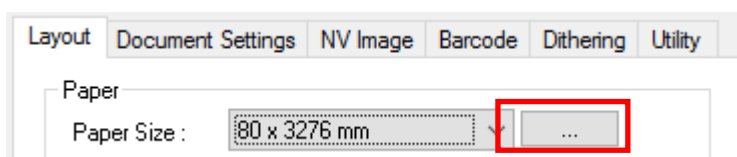
- 2) Click the **Layout** tab.

5-1-1 Paper Size

Paper size of **80 x 3276 mm** (2inch printer is **58 x 3276 mm**) is selected by default, and the following sizes can be selected.

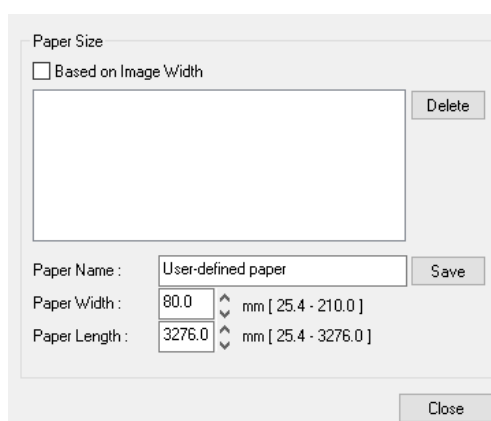
Models	Paper sizes can be selected		
SRP-Q200 BK3-2 SRP-S200 SPP-R200/R200II/R200III SPP-R210/R220/R230	58 × 297 mm	58 × 3276 mm	A4 210 × 297 mm
SRP-Q300/Q302 SRP- Q300II SRP-QE300/QE302 SRP-E300/E302 SRP-380/382/383 SRP-380plus /382plus SRP-350III/352III SRP-350V/352V SRP-350plusIII/352plusIII SRP-350plusV/352plusV SRP-F310II/F312II SRP-330/330II/332II SRP-330III/332III BGT-100P/102P BK3-3, BK5-3 SRP-B300/B300II SPP-200 SRP-G300 SPP-300 SPP-R300/R310/R318	80 × 297 mm	80 × 3276 mm	A4 210 × 297 mm
BK5-4 SPP-R400/R410/R418	108 × 297 mm	108×3276 mm	A4 210 × 297 mm
SRP-S300/S320/S3000/S300II, G30, SRP-F313II	80 x 297 mm 83 x 297 mm	80 x 3276 mm 83 x 3276 mm	A4 210 x 297 mm

If a custom paper size is required, click “...” to add or update a custom paper size.

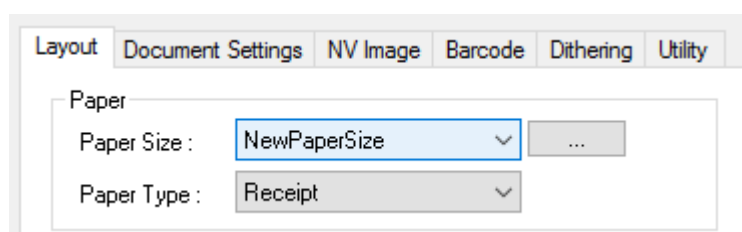


Click **Save** after specifying the paper width/length and a paper name. If the specified paper name already exists on the system, you can update the paper width/length.

Paper Width : 25.4 mm (Min) ~ 210.0 mm (Max)
Paper Length : 25.4 mm (Min) ~ 3276.0 mm (Max)



You can choose the new paper size on the **Paper Size** combo-box after adding a paper size.



Delete button : Deletes the paper size selected in the list.

Save button : Adds a new paper size or update the paper size selected in the list if the paper name already exists on the system.

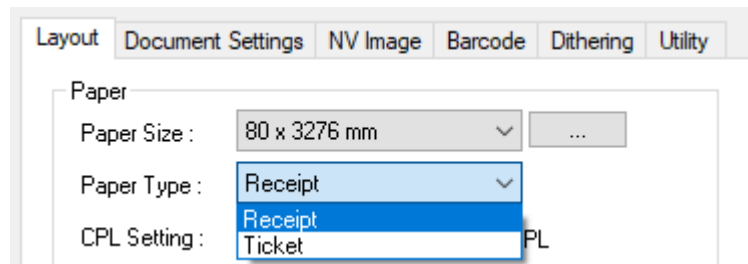
Base on Image Width : Choose whether to create based on the width of the image or the width of the paper

5-1-2 Paper Type

You can choose **Receipt** or **Ticket** as paper types.

Receipt : Receipt allows flexible paper length according to the data length.

Ticket : Ticket print in fixed length even the print data is short.



5-1-3 Copies

Copies are printed by specifying the copy count. The copy count is set to 1 by default. Set this value bigger than 1 to set the number of copies to print. The value should be within the range of 1 to 255.

5-1-4 Image Rotation

Image rotation is available for image data only. It means that rotation of printer fonts (device fonts) or barcode fonts is not supported.

5-1-5 Paper Reduction

Reduction function reduces the size of the print image to save print paper. If this function is enabled and print-job data includes text data created by using a printer font (device font), printer fonts are converted to Windows fonts (True Type fonts) to make them smaller. The barcode size also can be reduced by selecting “**Enable reducing barcode**”.

Using Pixel Interpolation feature, reduce print quality can be improve. But, because the Pixel Interpolation feature references value of near pixels, reducing dense images can be disadvantageous.



- 32bit applications running on 64bit Windows cannot work for this feature.
- It can affect barcode recognition, if the barcode size is reduced.

Not Supported Models for Pixel Interpolation

BGT-100P/102P

5-1-6 Crop Function

This function crops the upper and lower end of the printing area by the specified number. It helps reduce the margin at the top and bottom when there is excessive margin. The value should be within the range of 0 to 255.

Crop Function			
☒ Left Crop Length	0	↑	↓ [mm] v
☒ Right Crop Length	0	↑	↓ [Pixel] v
☒ Top Crop Length	0	↑	↓ [Margin Crop] v
☒ Bottom Crop Length	0	↑	↓ [mm] v



- "Margin Crop" is not affected by the figures.

Not Supported Models for margin crop and left/right crop function
BGT-100P/102P, SRP-330

5-1-7 Orientation

Printing orientation can be set to Portrait (which is the default) or Landscape. It is not possible to use printer fonts (device fonts) and barcode fonts in landscape.

Portrait : Printing in the vertical direction.

Landscape: Printing in the horizontal direction.

5-2 Document Settings

The screenshot shows the 'Document Settings' tab of a printer driver. It includes the following sections:

- Send Command:** Fields for Start Doc, Start Page, End Page, and End Doc. An example '<1B4A00>' is provided.
- Cash Drawer / Internal Beep:** A list of checkboxes and spinners:
 - ☐ Open before printing #1 (50 ms)
 - ☐ Open before printing #2 (50 ms)
 - ☐ Open after printing #1 (50 ms)
 - ☐ Open after printing #2 (50 ms)
 - ☐ Beep sound before printing (50 ms)
 - ☐ Beep sound after printing (50 ms)
- Line Feed:** A spinner for 'Line-feeds after printing' set to 0 [0..99].
- Paper Cut:** Radio buttons for:
 - ☐ Page / Job : No Cut / No Cut
 - ☒ Page / Job : No Cut / Partial Cut
 - ☐ Page / Job : Partial Cut / Partial Cut

- 1) Open the **Printer Properties** window and then click **Printing Preferences** in the **General** tab.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items)
 – (Devices and Printers) – (Right-click the icon of the printer) –
 (Click **Printer Properties**)

- 2) Click the **Document Settings** tab.

5-2-1 Send Command

The Windows driver serves to receive the content for print from an application and send it to the printer. The “Send Commands” function allows for the addition of desired commands at the start or end of the print content.

Start Doc	:	Addition of command at the beginning of the document.
Start Page	:	Addition of command at the beginning of the page.
End Page	:	Addition of command at the end of the page.
End Doc	:	Addition of command at the end of the document.



For more information about the hexadecimals, refer to the Commands Manual.

5-2-2 Cash Drawer/Internal Beep

To open a cash-drawer before printing, tick “Open before printing #1” or “Open before printing #2”.

To open a cash-drawer after printing, tick “Open after printing #1” or “Open after printing #2”.

To make a beep sound when printing, tick “Beep sound before printing” or “Beep sound after printing”.

To alarm on end of page or end of document, tick “Alarm on End Page” or “Alarm on End Doc”.

Cash Drawer / Internal Beep		
☐ Open before printing #1	50	[ms]
☐ Open before printing #2	50	[ms]
☐ Open after printing #1	50	[ms]
☐ Open after printing #2	50	[ms]
☐ Alarm on End Page	3	[times]
☒ Alarm on End Doc	3	[times]



Supported Models for Internal Beep

SRP-Q300/Q302, SRP-QE300/QE302, SRP-Q300II,
SRP-380/382/383/380plus/382plus,
SRP-S300/S300II, SRP-S320, SRP-S3000, SRP-S200,
SRP-350III/352III/350V/352V,
SRP-350plusIII/352plusIII/350plusV/352plusV,
SRP-F310II/F312II/F313II,
SRP-330/330II/332II/330III/332III, BGT-100P/102P

Supported Models for Alarm on End Page, Alarm on End Doc
G30

5-2-3 Line Feed

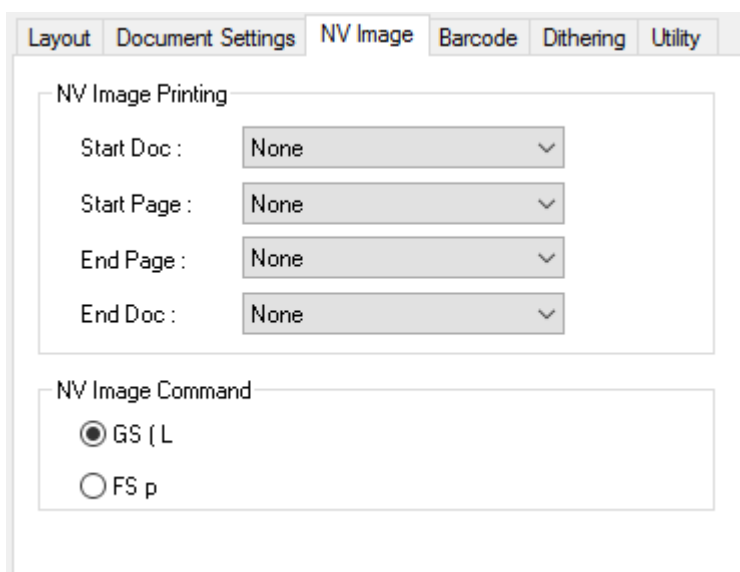
It is possible to set the number of line feeds between 0 and 99 for adding blank lines at the end of printing.

5-2-4 Paper Cut

Paper can be cut at the end of each page or each document (job).

Page/Job: No Cut/No Cut	: Paper is not cut after printing.
Page/Job: No Cut/Partial Cut	: Paper is cut at the end of each document (job).
Page/Job: Partial Cut/Partial Cut	: Paper is cut at the end of each page.

5-3 NV Image



- 1) Open the **Printer Properties** window and then click **Printing Preferences** in the **General** tab.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items) – (Devices and Printers) – (Right-click the icon of the printer) – (Click **Printer Properties**)

- 2) Click the **NV Image** tab.

The position to print NV image stored in the printer can be set at the beginning and/or end of the document and beginning and end of each page.



There are two commands for NV Image printing. Take care of selecting one of the two commands because NV images cannot be printed depending on the selected command.

NV bit image	:	FS p
NV graphics	:	GS L

Start Doc	:	Insert NV image at the top of the document.
Start Page	:	Insert NV image at the top of the page.
End Page	:	Insert NV image at the end of the page.
End Doc	:	Insert NV image at the end of the document.

5-4 Barcode

The screenshot shows a software window with several tabs: Layout, Document Settings, NV Image, Barcode (selected), Dithering, and Utility. The Barcode tab contains two sections: 1D-Barcodes and 2D-Barcodes. Each section has a 'Font Name' dropdown, a 'Type' dropdown, and a 'Properties' button. In the 1D-Barcodes section, 'Font Name' is set to 'Barcode1' and 'Type' is 'UPC-A'. In the 2D-Barcodes section, 'Font Name' is '2D-Code1' and 'Type' is 'PDF417'.

- 1) Open the **Printer Properties** window and then click **Printing Preferences** in the **General** tab.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items) –
(Devices and Printers) – (Right-click the icon of the printer) –
(Click **Printer Properties**)

- 2) Click the **Barcode** tab.

5-4-1 1D Barcode

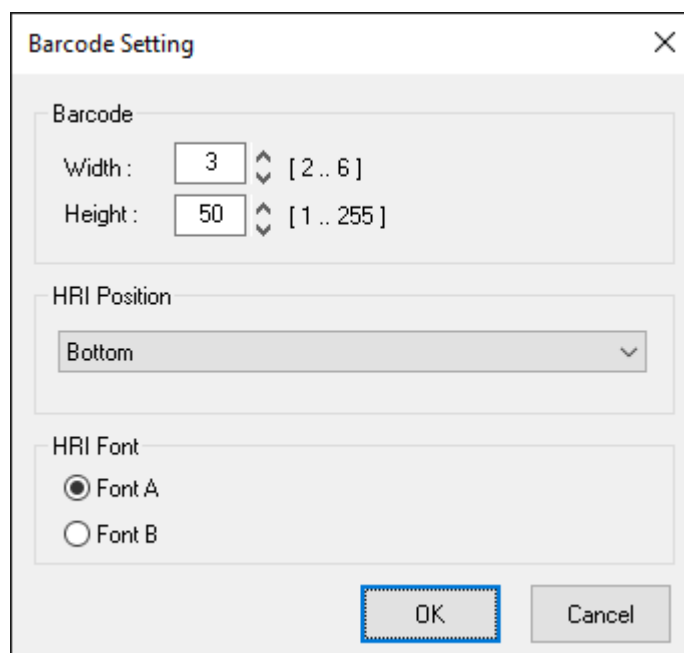
Windows driver supports one-dimensional barcode fonts as shown in the following table. Barcodes can be printed on the printer by using following font names.

Div.		Font Name	Symbology	Supported Characters	Size (Point)		
A	B				180dpi	203dpi	300dpi
O	O	Barcode1	UPC-A	Numeric: 0~9	20 40 60 80	18 35.5 53 71	12 24 36 48
		Barcode2	UPC-E	Numeric: 0~9			
		Barcode3	JAN13 (EAN)	Numeric: 0~9			
		Barcode4	JAN8 (EAN)	Numeric: 0~9			
		Barcode5	Code39	Numeric: 0~9 Symbols: \$, +, -, ., / Letters: A~Z			
		Barcode6	ITF	Numeric: 0~9			
		Barcode7	Coda bar	Numeric: 0~9 Symbols: \$, +, -, ., /, : Letters: A~D			
		Barcode8	Code93	ASCII: 0x00 ~ 0x7F			
		Barcode9	Code128	ASCII: 0x00 ~ 0x7F			
	X	Barcode10	GS1-128	Numeric: 0~9			
		Barcode11	GS1 Data Bar Omnidirection	Numeric: 0~9			
		Barcode12	GS1 Data Bar Truncated	Numeric: 0~9			
		Barcode13	GS1 Data Bar Limited	Numeric: 0~9			

* O: Supported, X: Not Supported

Division	models
A	SRP-Q300/Q302, SRP-QE300/QE302, SRP-Q300II, SRP-380/382/383/380plus/382plus, SRP-S300/S320/S3000/S200/S300II, BK3-3, BK3-2, BK5-3, BK5-4, SPP-200, G30, SRP-G300
B	SRP-E300/E302, SRP-350III/352III/350V/352V, SRP-350plusIII/352plusIII/350plusV/352plusV, SRP-F310II/F312II/F313II, SRP-330/330II/332II/330III/332III, SRP-Q200, BGT-100P/102P, SRP-B300

If you want to change the default value of 1d barcode properties, select a Font Name and Type of one-dimensional barcode, and then click Properties. Click OK after changing the values of properties.



The image shows a 'Barcode Setting' dialog box with a close button (X) in the top right corner. It contains three sections: 'Barcode' with 'Width' (3) and 'Height' (50) spinners and their ranges [2..6] and [1..255] respectively; 'HRI Position' with a dropdown menu set to 'Bottom'; and 'HRI Font' with two radio buttons, 'Font A' (selected) and 'Font B'. At the bottom are 'OK' and 'Cancel' buttons, with the 'OK' button highlighted by a blue dashed border.

Section	Property	Value	Range
Barcode	Width	3	[2 .. 6]
	Height	50	[1 .. 255]
HRI Position	Position	Bottom	
HRI Font	Font A	☒	
	Font B	☐	

5-4-2 2D Barcode

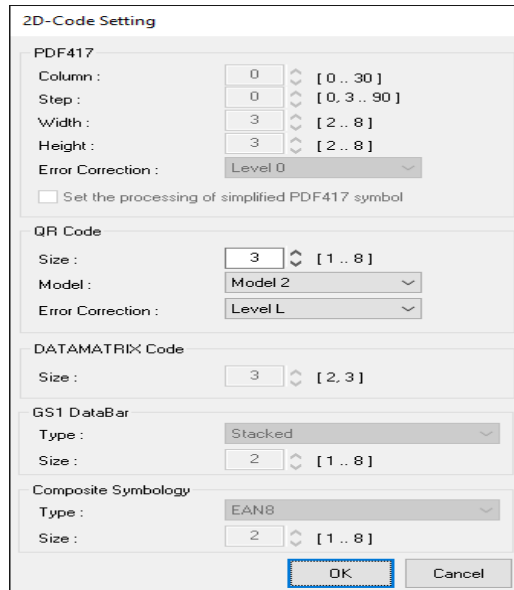
Windows driver supports two-dimensional barcode fonts as shown in the following table. Barcodes can be printed on the printer by using following font names.

A	Div.		Font Name	Symbology	Size (Point)		
	B	C			180dpi	203dpi	300dpi
O	O	O	2D-Code1	PDF417	9.5	8.5	6
			2D-Code2	QR Code			
	X	X	2D-Code3	DATAMATRIX Code			
			2D-Code4	GS1 Data Bar			
			2D-Code5	Composite Symbology			

* O: Supported, X: Not Supported

Division	Supported models
A	SRP-Q300/Q302, SRP-QE300/QE302, SRP-Q300II, SRP-380/382/383/380plus/382plus, SRP-S300/S320/S3000/S200/S300II, BK3-3, BK3-2, BK5-3, BK5-4, SPP-200, G30, SRP-G300
B	SRP-E300/E302, SRP-350III/352III/350V/352V, SRP-350plusIII/352plusIII/350plusV/352plusV, SRP-F310II/F312II/F313II, SRP-330II/332II/330III/332III, SRP-Q200, BGT-100P/102P, SRP-B300/B300II
C	SRP-330

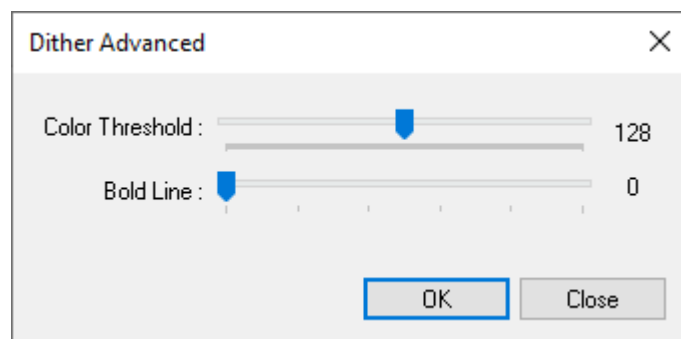
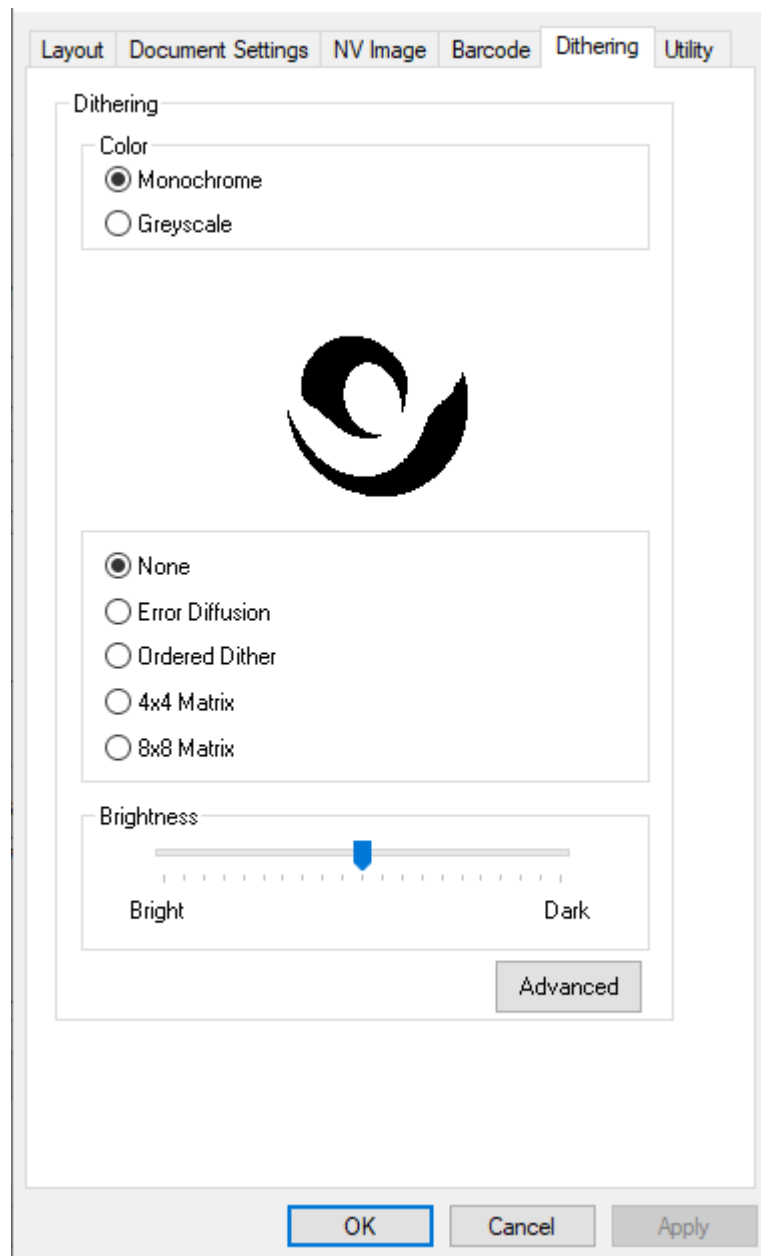
To change the default value of 2d barcode properties, select a Font Name and Type of two-dimensional barcode, and then click Properties. Click OK after changing the values of properties for 2d barcode.



The image shows a '2D-Code Setting' dialog box with several sections for configuring different barcode types. The 'PDF417' section includes settings for Column, Step, Width, Height, and Error Correction, along with a checkbox for simplified symbol processing. The 'QR Code' section includes Size, Model, and Error Correction settings. The 'DATAMATRIX Code' section includes a Size setting. The 'GS1 DataBar' section includes Type and Size settings. The 'Composite Symbology' section includes Type and Size settings. At the bottom right, there are 'OK' and 'Cancel' buttons.

2D-Code Setting	
PDF417	
Column :	0 [0 .. 30]
Step :	0 [0, 3 .. 90]
Width :	3 [2 .. 8]
Height :	3 [2 .. 8]
Error Correction :	Level 0
☐ Set the processing of simplified PDF417 symbol	
QR Code	
Size :	3 [1 .. 8]
Model :	Model 2
Error Correction :	Level L
DATAMATRIX Code	
Size :	3 [2, 3]
GS1 DataBar	
Type :	Stacked
Size :	2 [1 .. 8]
Composite Symbology	
Type :	EAN8
Size :	2 [1 .. 8]
OK Cancel	

5-5 Dithering



- 1) Open the **Printer Properties** window and then click **Printing Preferences** in the **General** tab.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items) –
(Devices and Printers) – (Right-click the icon of the printer) –
(Click **Printer Properties**)

- 2) Click the **Dithering** tab.

This printer is a black and white printing device including dithering function, greyscale print function, and brightness level adjustment function to produce a sharper or softer image. The following dithering algorithms can be selected when Monochrome is selected.

None

Error Diffusion

Ordered Dither

4x4 Matrix

8x8 Matrix



Print speed may become slower if Greyscale is selected because of the large amount of data to send to the printer.

Supported Models for Greyscale

SRP-Q300/Q302, SRP-QE300/QE302, SRP-Q300II,
SRP-380/382/383/380plus/382plus,
SRP-S300/S320/S3000/S200/S300II, SRP-350III/352III/350V/352V,
SRP-350plusIII/352plusIII/350plusV/352plusV,
SRP-F310II/F312II/F313II,
SRP-330/330II/332II/330III/332III,
SRP-E300/E302, BGT-100P/102P, SRP-B300/B300II
G30

2) Click the **Advanced** button.

Each UI provides the following functions.

- **Color Threshold**

Applied when a color image is sent to the driver. Adjusting the threshold changes how colors are processed during printing.

- **Bold Line**

Makes the lines in the image appear thicker when printed. A higher value produces bolder lines.

5-6 Utility

Layout	Document Settings	NV Image
Barcode	Dithering	Utility
Unified POS Utility Unified POS Utility		
Extended Function Special Font(FontcontrolA) Edit		
☒ Enable Journal Journal Viewer		
☒ Enable Text-Key Function Text-Key Function		
☒ Enable Print Preview The preview application runs before printing.		
☒ Enable Font Replacement Function Font Replacement Function		

- 1) Open the **Printer Properties** window and then click **Printing Preferences** in the **General** tab.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items) – (Devices and Printers) – (Right-click the icon of the printer) – (Click **Printer Properties**)

- 2) Click the **Utility** tab.

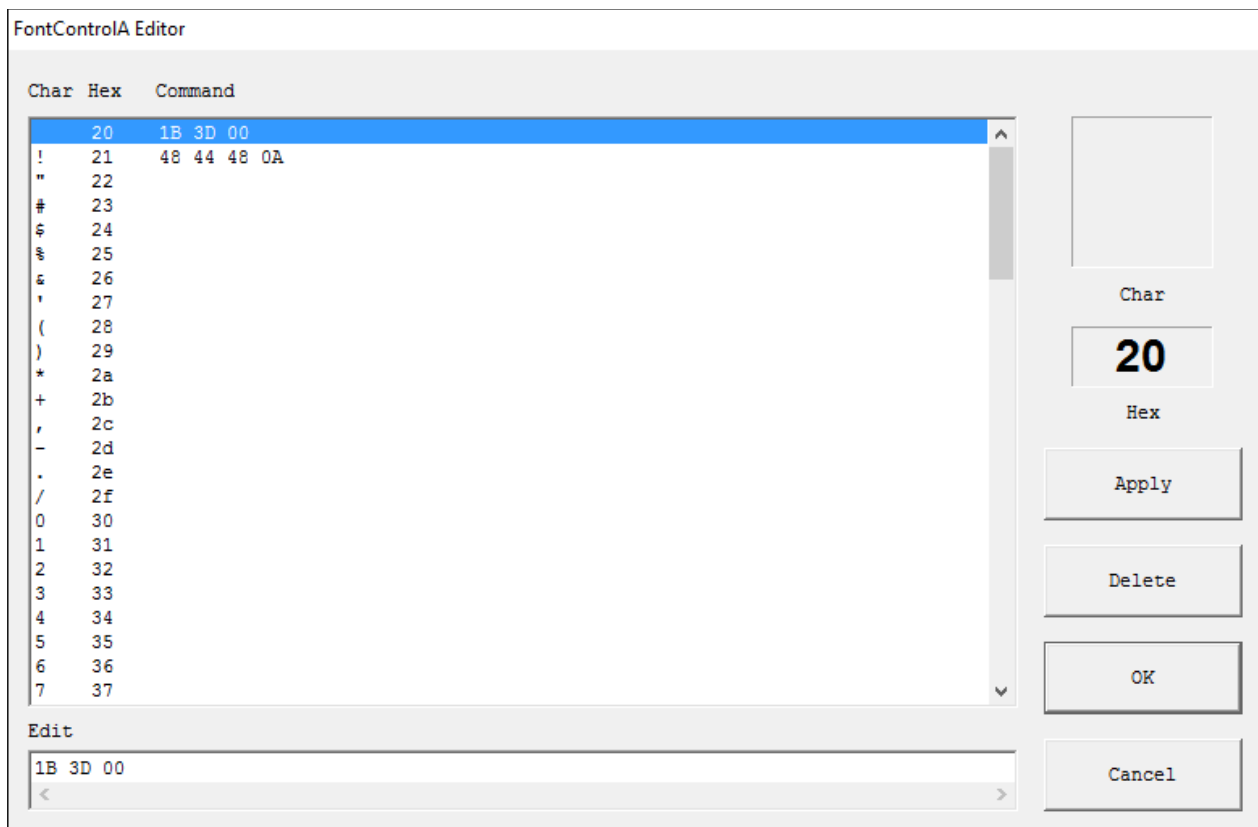
5-6-1 Bixelon Utility

Refer to the **Bixelon Utility** manual included in the CD for details.

5-6-2 Special Font Edit Utility

The purpose of **FontControlA** font is not for text printing. It is used to define the printer command, assign the defined printer command to a specific ASCII character, and send it to the printer. The range of ASCII code that the command can be assigned is from 0x20 to 0x7F, and the command can be easily assigned using this utility.

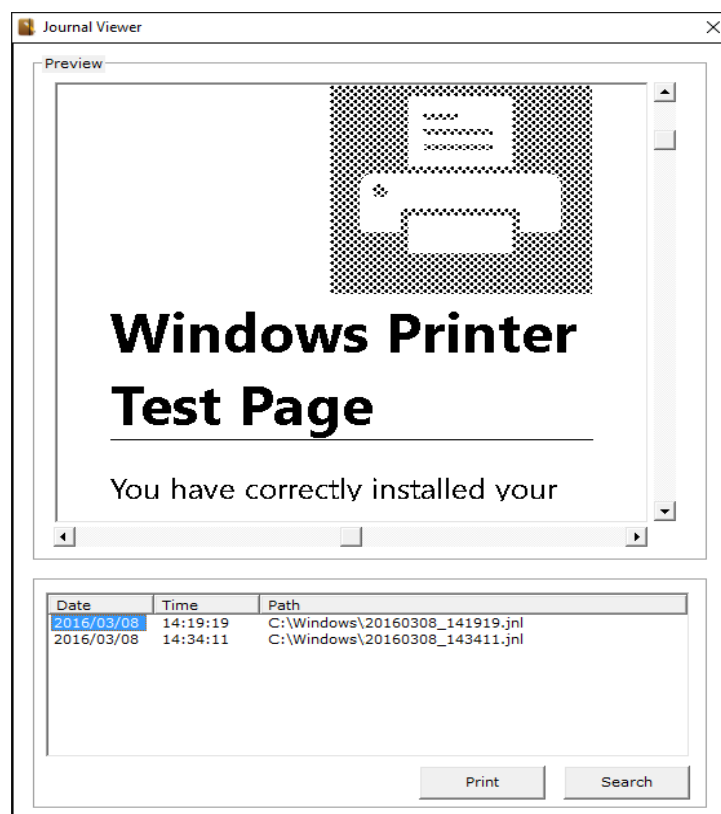
- 1) Click **Special Font Edit**.
- 2) Select an ASCII code character and enter the print command. All values should be entered in hexadecimal number format.
- 3) Click **Apply** and then click **OK**.



5-6-3 Journal Viewer

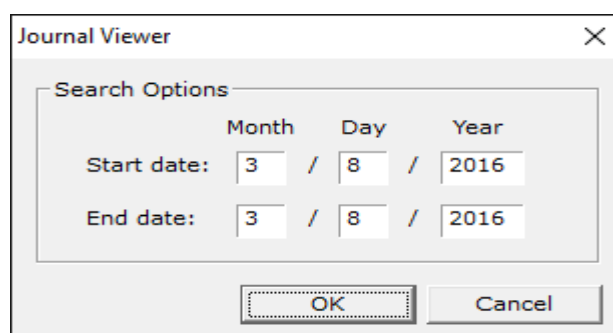
Journal is a function to save a copy of printed receipts. Copies can be saved without using journal printer with this function. Journal saves each printed document in a file and the saved file can be viewed by using this utility.

1) Tick **Enable Journal** to run **Journal Viewer**, and then click **Journal Viewer**.



2) Click **Search** to set search condition, and then enter **Start Date** and **End Date**.

3) Click **OK** to search the files created within the specified period.



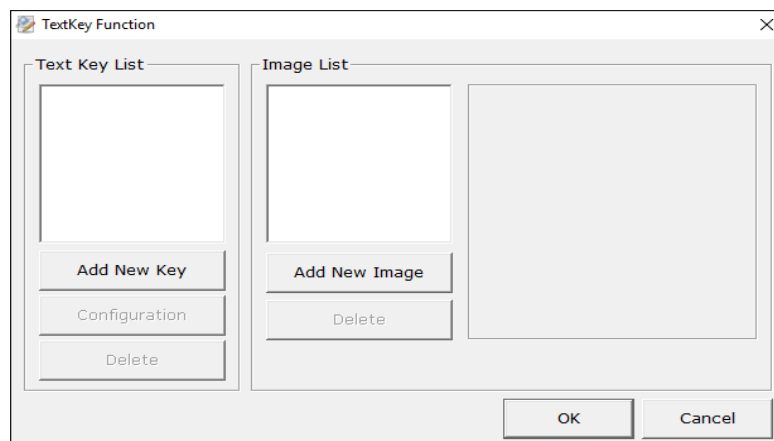
4) Select the file to print from the list and click **Print** to send the data stored in the file to the printer.

5-6-4 Text-Key Function

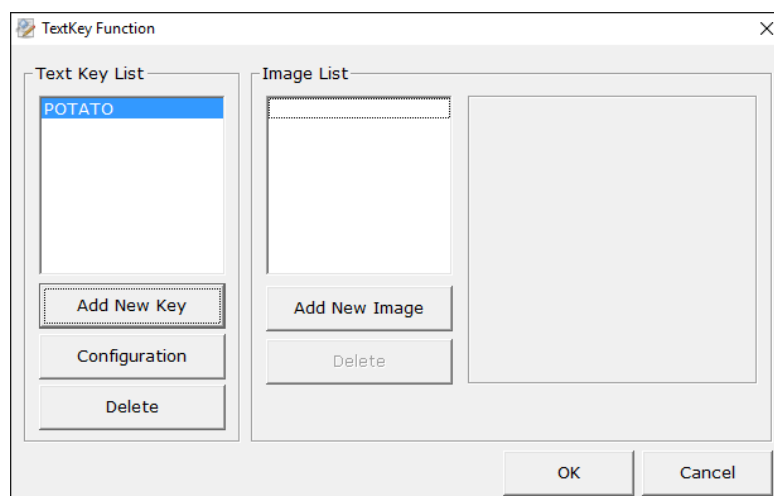
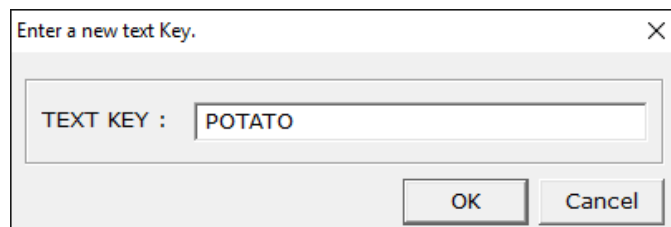
Text-Key Function is a utility to replace specific text (Text-Key) with other texts or graphic images, and to add images to the bottom of receipts. This function can be used only when using printer fonts (device fonts). It has no effect when using Windows fonts (True Type fonts) or the data for Text-Key does not exist on a Print-Job.

► How to replace Text-Key with other texts.

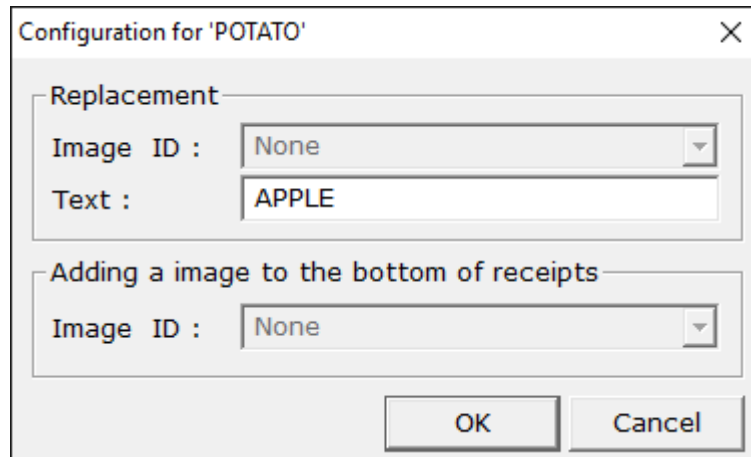
1) Tick **Enable Text-Key Function** and then click **Text-Key Function**.



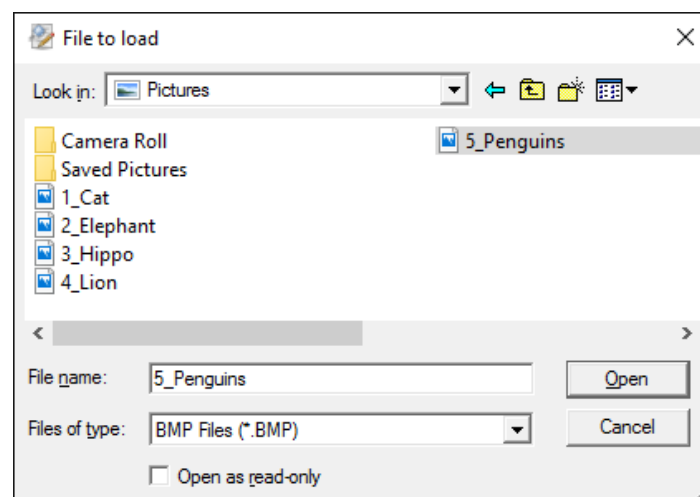
2) Click **Add New Key**, type a text to be used as Text-Key, and then click **OK**.



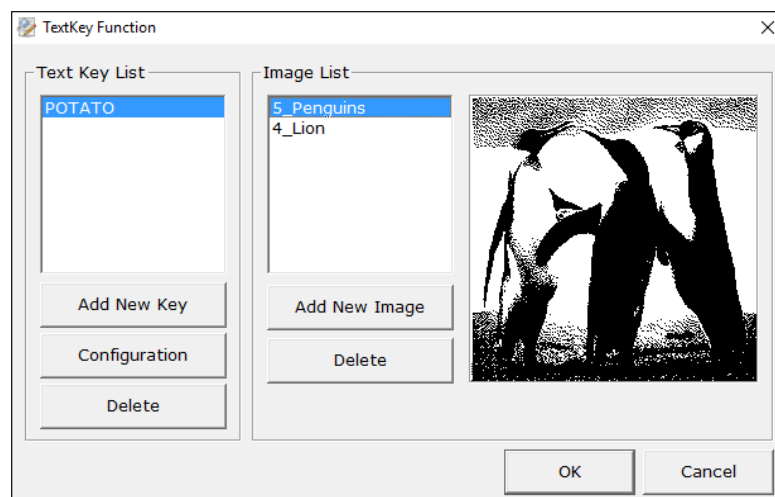
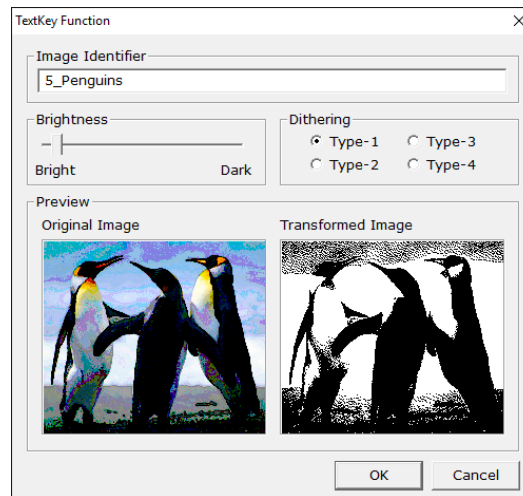
- 3) If the Text-Key is selected, The **Configuration** button is enabled.
- 4) Click **Configuration** to enter a text, which is used to replace the selected Text-Key with the text entered. For example, if you enter “**APPLE**” in the text box as below, the Text-key, “**POTATO**” can be replaced with “**APPLE**”.



- How to replace Text-Key with a graphic image and to add it to the bottom of receipts.
- 1) This utility can also replace the selected Text-Key with a graphic image instead of texts and can add a graphic image to the bottom of receipts. It is necessary to add images to the image list.
 - 2) Click **Add New Image** to browse for an image to add to the list.

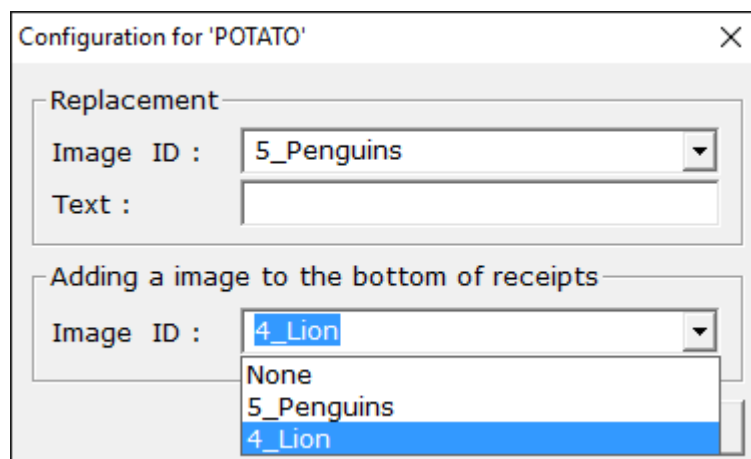
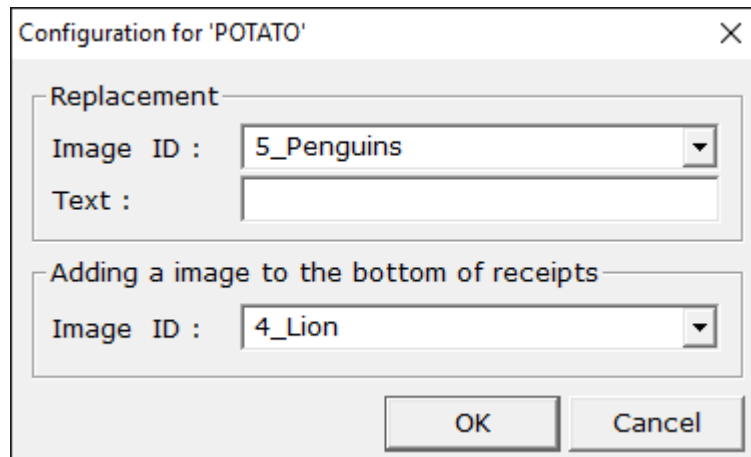


- 3) Enter a unique name to be added, adjust the brightness, select a dithering type, and then click **OK**. Repeat 2 to 3 step to add up to as much as you want.



- 4) Select a Text-Key in the Text-Key list, and then click **Configuration**.

- 5) To replace the selected Text-Key with a graphic image, select one of the available identifier via the combo box under “**Replacement**” label. There are two replacement functions but only one of the two is available.



- 6) In order to print a graphic image to the bottom of receipts, select one of the available identifier via the combo box under “**Adding a image to the bottom of receipts**” label. The graphic image for the selected identifier only will be printed if the data for the selected Text-Key were found on a Print-Job.

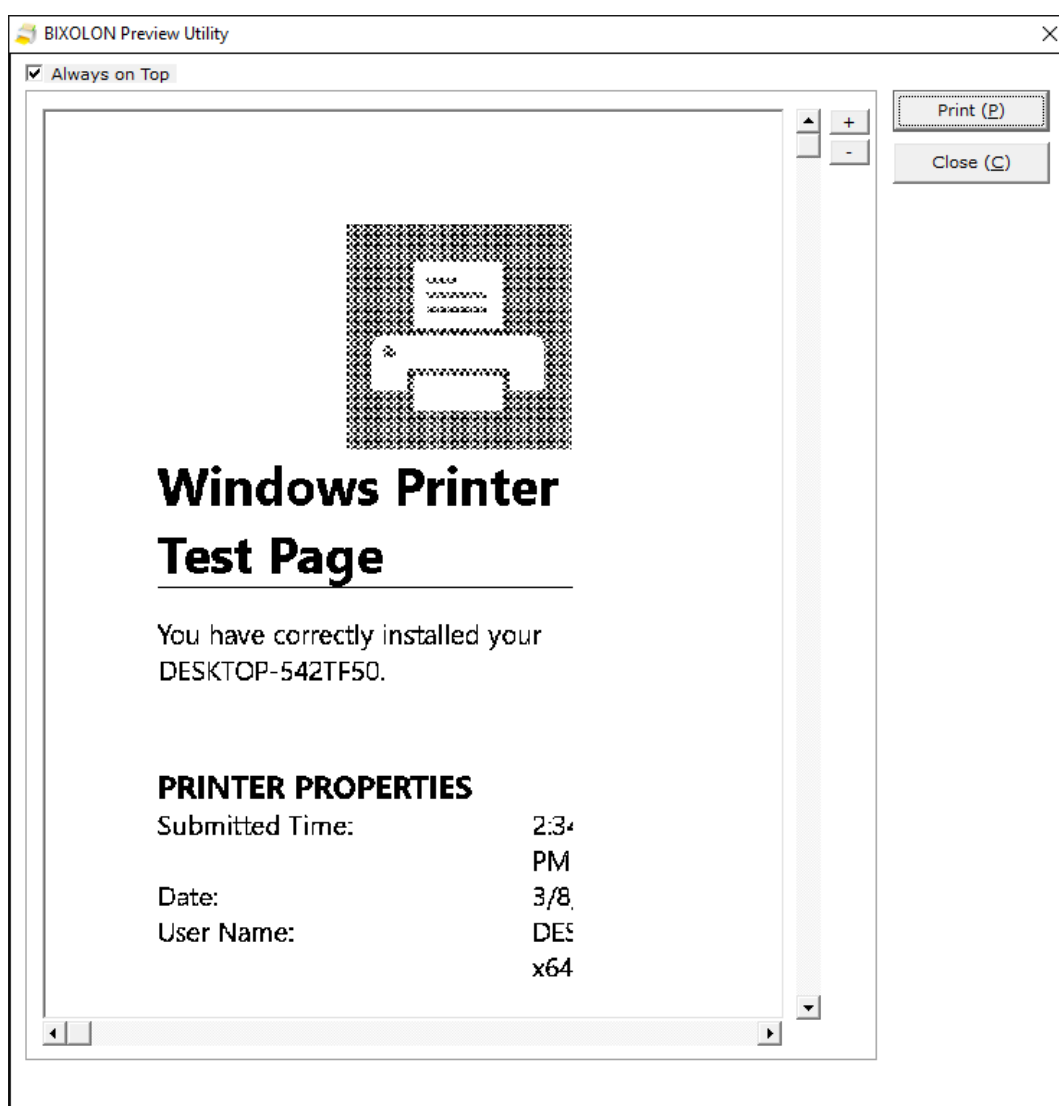
5-6-5 Print Preview

This application with a preview of a print-job runs, and windows driver does not directly send print-job data to the printer when enabled by clicking “**Enable Print Preview**”. Print-job data can only be sent to the printer in the application.



The actual output of preview image processed by the application might look a little different.

1) Tick **Enable Print Preview** to make Windows Driver ready for running the application.



2) When print-job data are created via Windows Driver, the application runs, and then loads the data to draw the expected output on screen.

3) Click **Print** if you want to print, or click **Close** to exit the application.

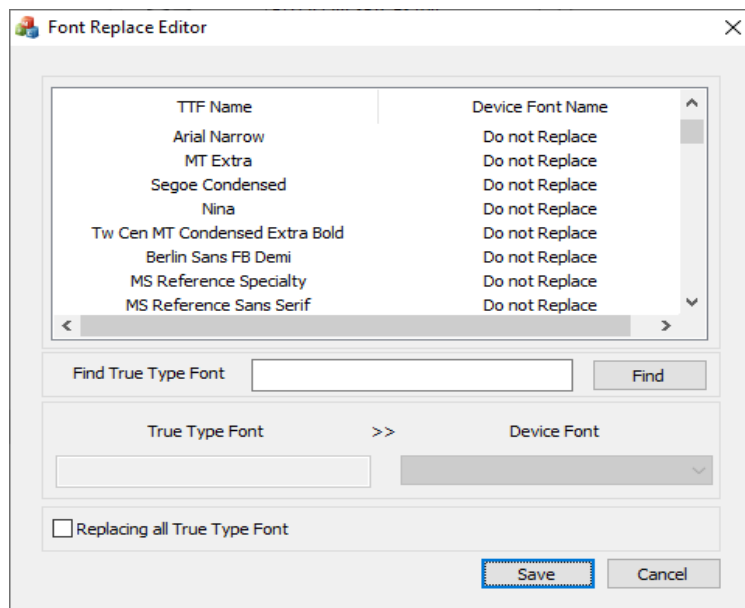
5-6-6 Font Replacement

Font Replacement function is a utility to replace Windows fonts (True Type fonts) to printer fonts (device fonts) in Print-Job data.

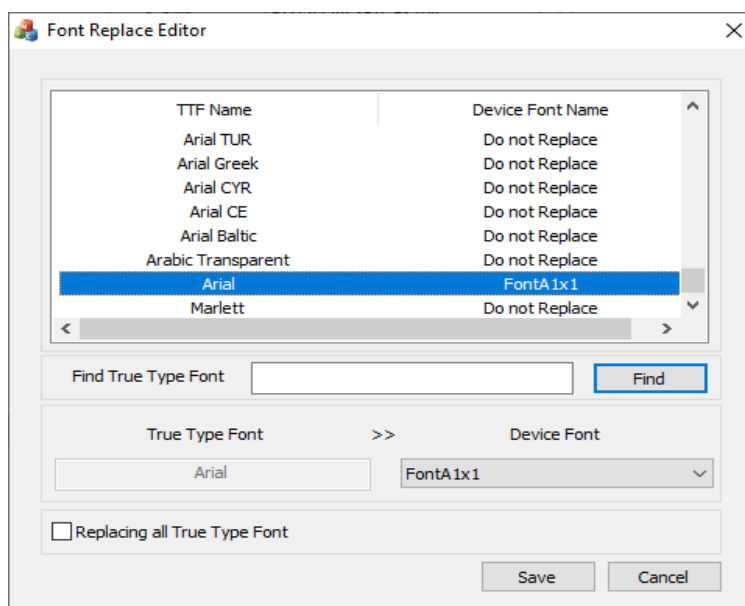
It has no effect if no include Windows fonts in Print-Job data. In order to Windows fonts replace to double-byte printer fonts, you should download double-byte printer font to printer through the **Bixelon Utility**.

► How to replace Windows fonts (True Type font) to other printer fonts (device fonts).

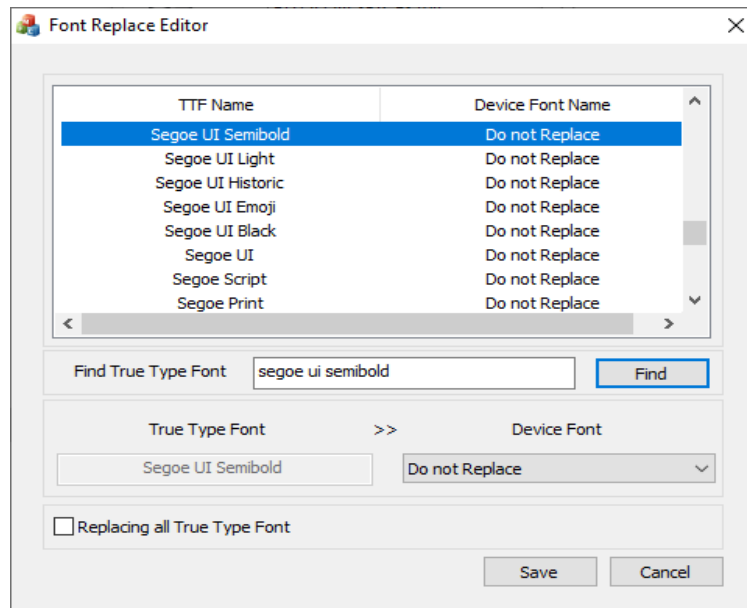
1) Tick Enable Font Replacement Function and then click Font Replacement Function



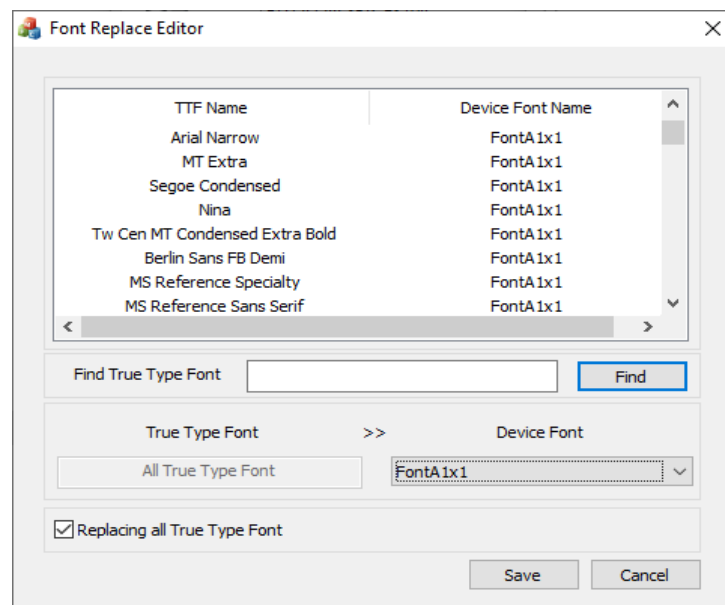
2) Select Windows font (True Type font) and Set printer font (device font)



- 3) You can also find Windows font (True Type font) in the list via typing Windows font (True Type font) name. This feature is not case sensitive.



- 4) You can replace all Windows font (True Type font) to printer font (device font) in Print-Job data via check **Replacing all True Type Font**.



- 5) If finish setting, Click **Save**.



Not Supported Models
BGT-100P/102P, BK3-3/2

5-6-7 Printer Status Email Notification

The Printer Status Email Notification is a utility that sends alarms to a designated email address or desktop notification when an abnormal status is detected.

Minimum System Requirements

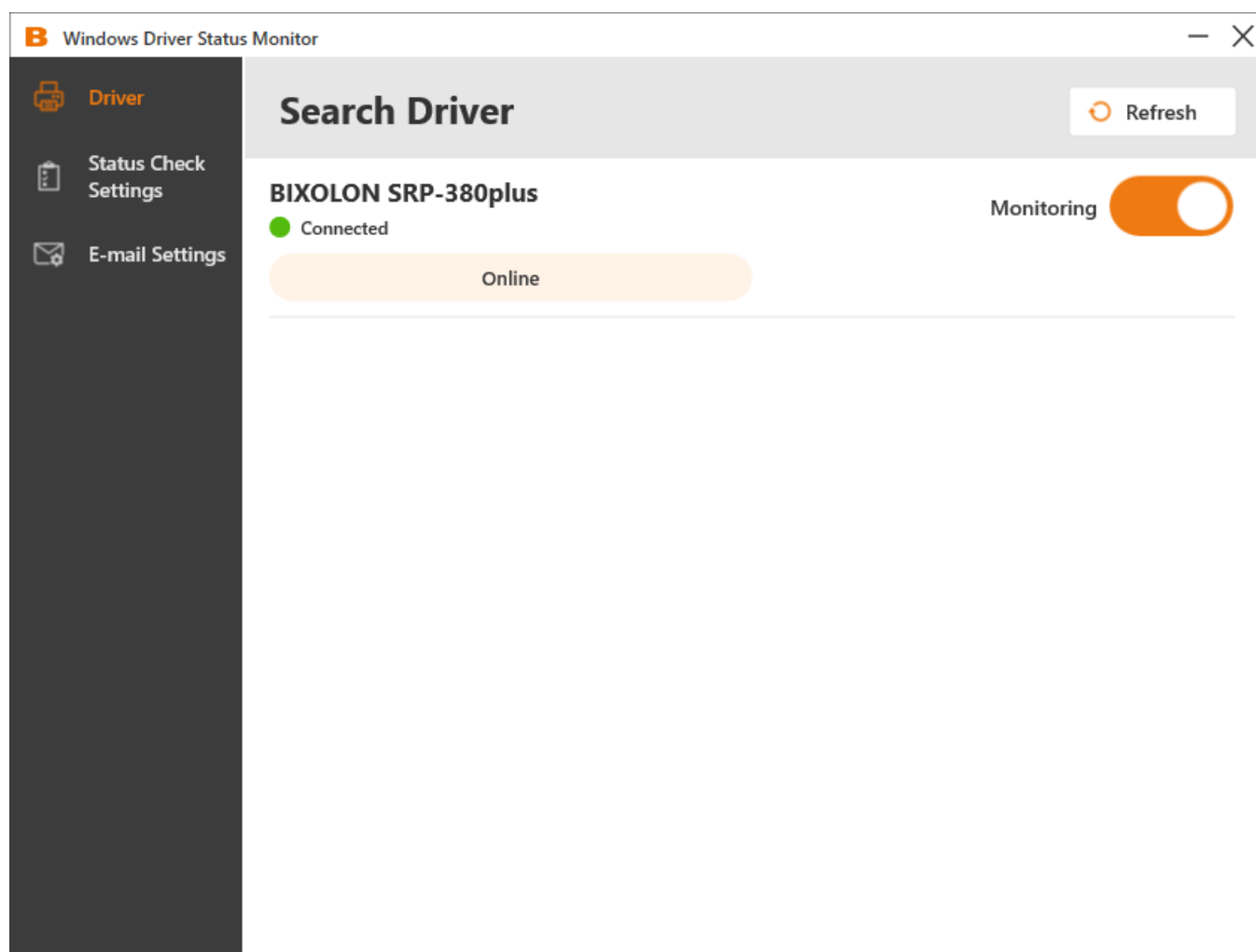


Supported OS: Windows 10, Windows 11

DirectX Version: DirectX 11.1 or higher with Driver Feature Level 11_0 or above

1) Search Driver

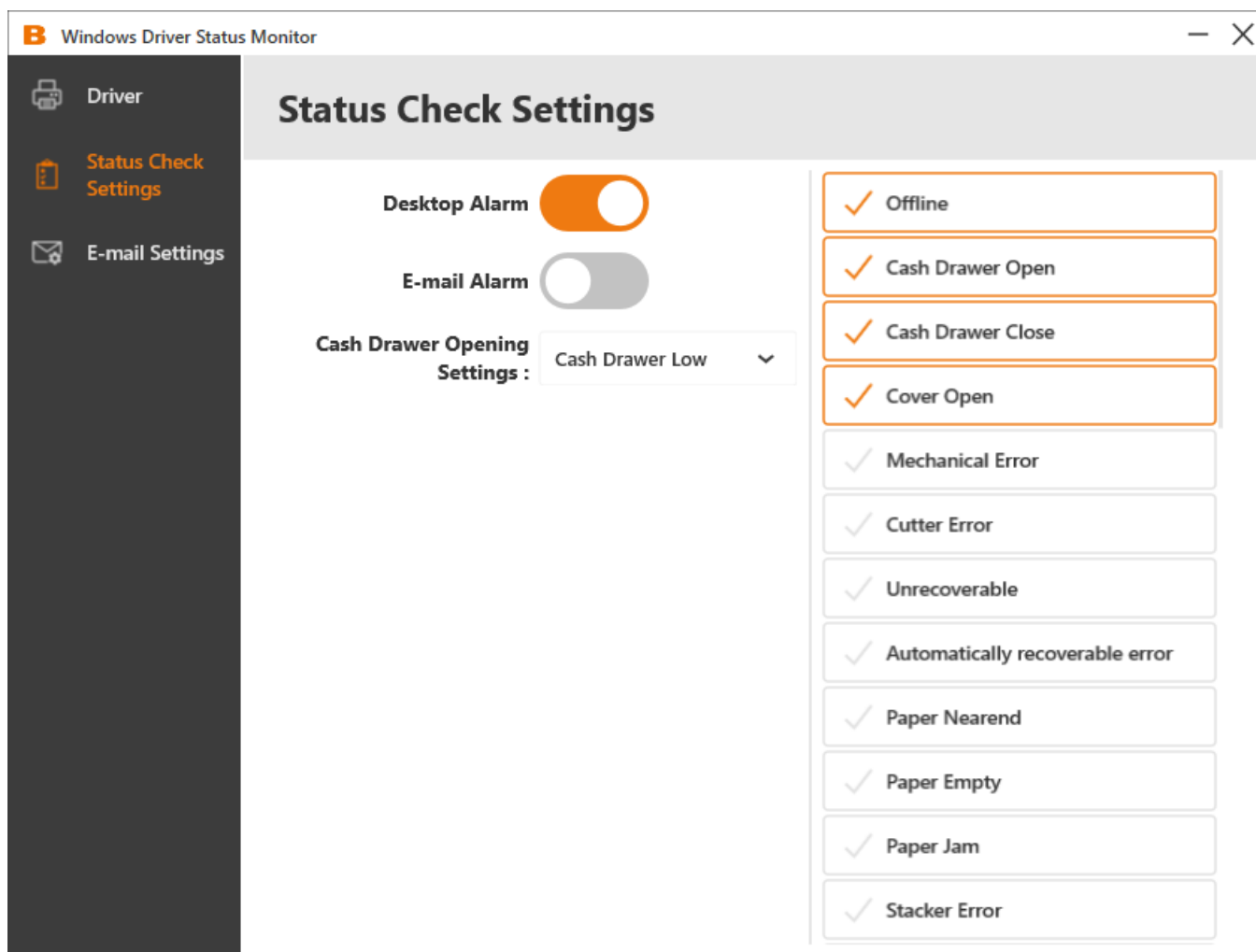
- It scans for installed printer drivers. If the **Monitoring** button is enabled, it allows the system to monitor the status of printers connected through the driver.



To enable Monitoring, go to Driver Properties > Ports and enable the Bidirectional Support option.

2) Status Check Settings

- **Desktop Alarm:** When an abnormal status occurs, a notification will appear in the bottom-right corner of the desktop.
- **E-mail Alarm:** When an abnormal status occurs, an alarm message will be sent to the e-mail address provided in the settings.
- **Cash Drawer Opening Settings:** The status of "Cash Drawer Open" is based on the printer's cash drawer setting.
- **Status List on the Right:** Alarms are sent only for the specific status conditions selected by the user.



3) E-mail Settings

- **Load:** Imports e-mail settings from a saved file and applies them to the current email settings.
- **Save:** Saves the e-mail settings as an encrypted file.
- **+ Driver Name:** Adds the name of the driver with the abnormal status to the email message.
- **+ Driver Status:** Adds the specific status of the driver to the e-mail message.
- **Test Mail:** Sends a test e-mail using the information specified by the user.
- **SMTP Server, SMTP Authentication, Port, Login ID, Password:** Enter the SMTP server settings for the outgoing email server.



※ Password

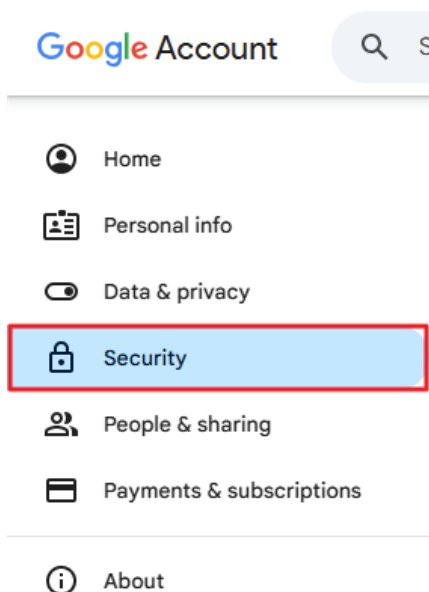
Make sure to enter the password required by the outgoing email server (e.g., Gmail, Yahoo, etc.).

For Gmail, two-step verification and an app password are required.

The screenshot shows the 'E-mail Settings' window of the 'Windows Driver Status Monitor'. The window has a dark sidebar on the left with three options: 'Driver' (with a printer icon), 'Status Check Settings' (with a clipboard icon), and 'E-mail Settings' (with an envelope icon and highlighted in orange). The main area is titled 'E-mail Settings' and contains several input fields and buttons. At the top right are 'Load' and 'Save' buttons. The settings are organized into two columns. The left column includes 'Sender' (with a 'Sender Name' field), 'Sender E-mail' (with a 'Sender E-mail' field), 'Recipient' (with a 'Recipient E-mail' field), 'Subject' (with a 'Subject' field), and 'Body' (with two buttons: '+ Driver Name' and '+ Driver Status', and a large 'Contents' text area below them). The right column includes 'SMTP Server' (with a field containing 'smtp.gmail.com'), 'SMTP Authentication' (with a dropdown menu set to 'SSL'), 'Port' (with a field containing '465'), 'Login ID' (with a field containing 'Your E-mail ID'), and 'Password' (with a field containing 'Your E-mail Password' and a toggle icon). At the bottom left of the main area is a 'Test Mail' button.

► Setting Up Gmail SMTP Password

1) Go to Google -> Account -> Security.



2) 2-Step Verification -> Turn on 2-Step Verification

How you sign in to Google

Make sure you can always access your Google Account by keeping this information up to date

2-Step Verification	On since Jul 3	>
Password	Last changed Jul 3	>
Skip password when possible	On	>
2-Step Verification phones	010-9494-1996	>
Recovery phone	Add a mobile phone number	>
Recovery email	Verify qazedcww@naver.com	>

You can add more sign-in options

Passkeys and security keys

Authenticator

Google prompt

Backup 2-Step Verification

2-Step Verification

Turn on 2-Step Verification

Prevent hackers from accessing your account with an additional layer of security.

Unless you're signing in with a passkey, you'll be asked to complete the most secure second step available on your account. You can update your second steps and sign-in options any time in your settings. [Go to Security Settings](#)



Turn on 2-Step Verification

3) Enter "App passwords" into the search bar.

Google Account

Home

Personal info

Data & privacy

Security

People & sharing

Payments & subscriptions

About

App passwords

Google Account results

App passwords

Security

Web & App Activity

Data & privacy

Help Center articles

Sign in with app passwords

Use or fix App password

Manage your Google Settings

Manage your email addresses

4) Enter an app name, then select Create.

← App passwords

App passwords help you sign into your Google Account on older apps and services that don't support modern security standards.

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.

[Learn more](#)

You don't have any app passwords.

To create a new app specific password, type a name for it below...

App name

TestApp

Create

5) Check the generated app password.

Generated app password

Your app password for your device

17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17

How to use it

Go to the settings for your Google Account in the application or device you are trying to set up. Replace your password with the 16-character password shown above.

Just like your normal password, this app password grants complete access to your Google Account. You won't need to remember it, so don't write it down or share it with anyone.

Done

6) Go to E-mail Settings -> Password, then enter the Gmail app password.

Windows Driver Status Monitor

Driver

Status Check Settings

E-mail Settings

E-mail Settings

LoadSave

Sender

BixolonTestEmail

Sender E-mail

Recipient

Subject

TestGmail

Body

+ Driver Name

+ Driver Status

\$(driver)

\$(status)

SMTP Server

smtp.gmail.com

SMTP Authentication

SSL

Port

465

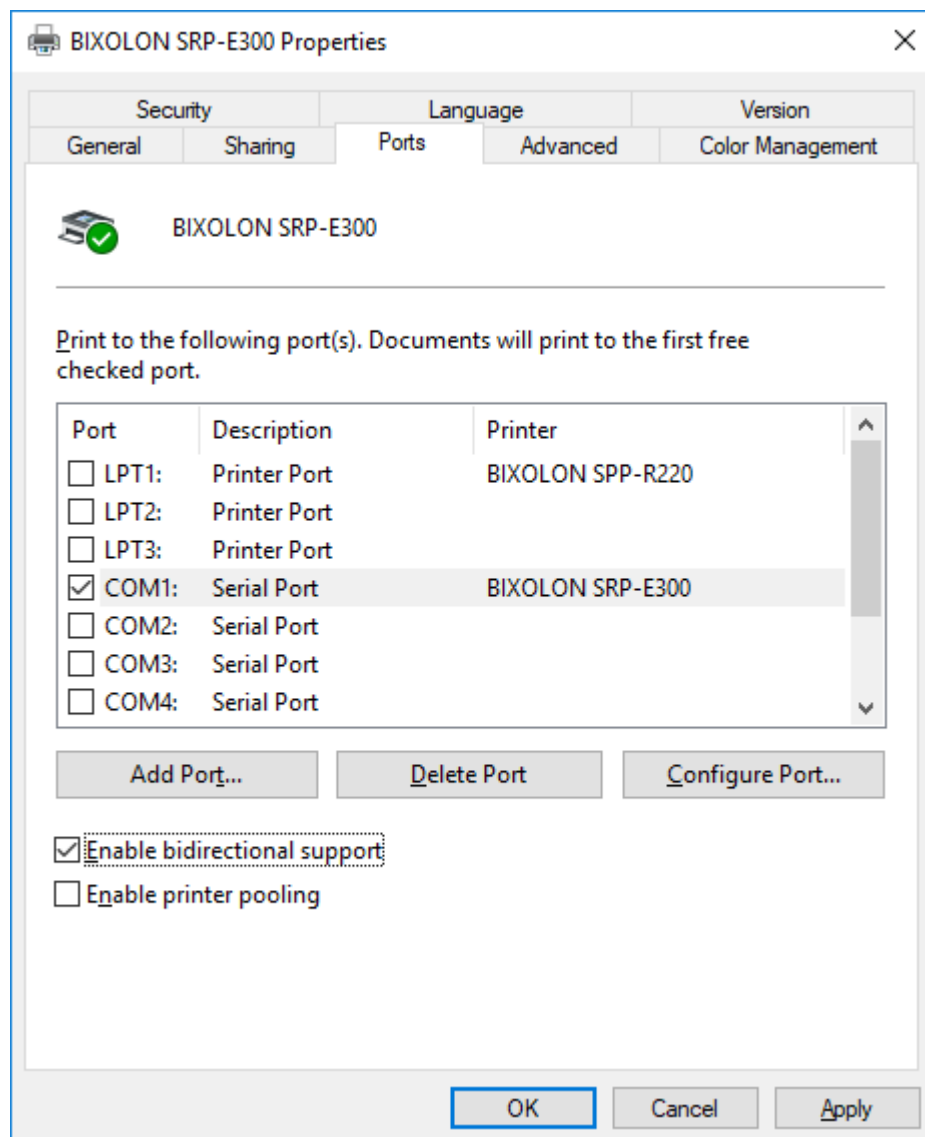
Login ID

Password

.....

Test Mail

5-7 Bidirectional Communication



1) Open the Printer Properties window.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items) – (Devices and Printers) – (Right-click the icon of the printer) – (Click **Printer Properties**)

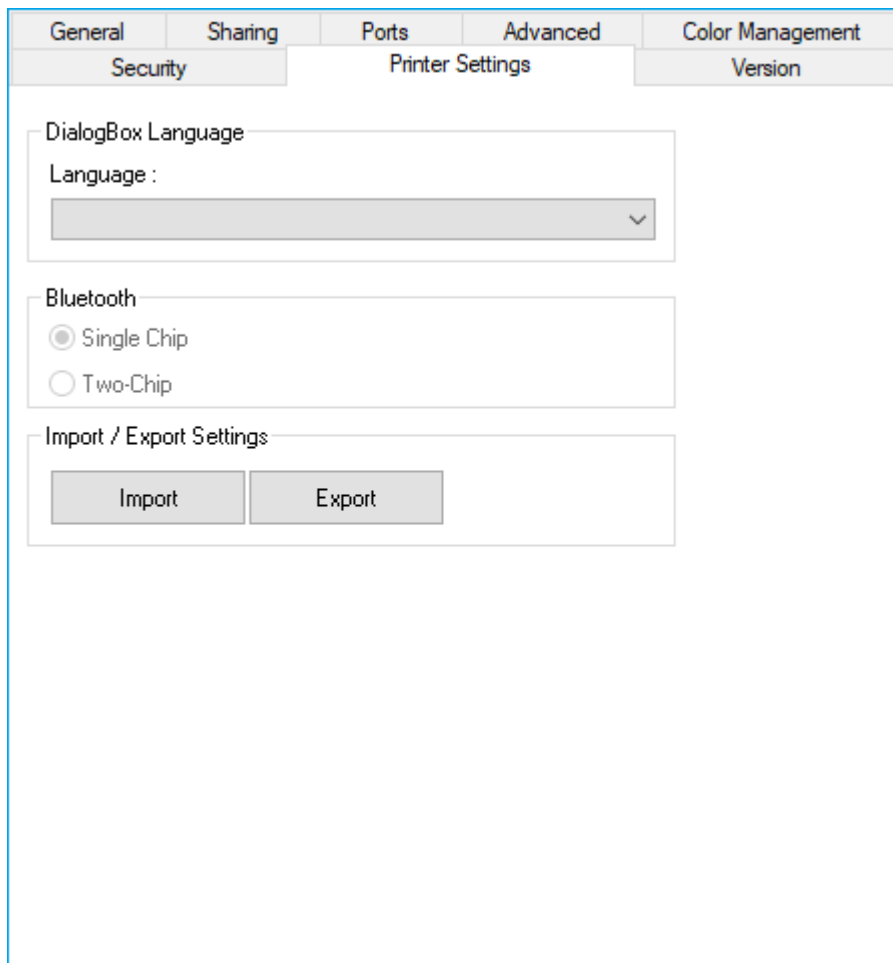
2) Click **Ports** tab.

Windows Driver

Because “**bidirectional support**” is disabled by default, it is necessary to tick Enable bidirectional support to get status from the printer. Sample codes can help you get more status information than the status information that OS supplies as standard way. This windows driver supports only one-on-one communication between the printer and host (typically a PC).

Supported Models	Printer status that OS supports	Printer status that OS does not support
SRP-Q300/Q302 SRP-Q300II	- ONLINE/OFFLINE - COVER OPEN/CLOSE - PAPER EMPTY	- CASH DRAWER OPEN/CLOSE - BATTERY NORMAL/LOW
SRP-Q200 SRP-QE300/QE302 SRP-330	- ONLINE/OFFLINE - COVER OPEN/CLOSE - PAPER EMPTY	CASH DRAWER OPEN/CLOSE
SRP-E300/E302 SRP-B300	- ONLINE/OFFLINE - PAPER EMPTY	CASH DRAWER OPEN/CLOSE
SRP-380/382/383/380plus/382plus SRP-S300/S320/S3000/S200/S300II SRP-350III/352III SRP-350V/352V SRP-350plusIII/352plusIII SRP-350plusV/352plusV SRP-F310II/F312II/F313II SRP-330II/332II/330III/332III BGT-100P/102P G30	- ONLINE/OFFLINE - COVER OPEN/CLOSE - PAPER EMPTY	- NEAR END PAPER - CASH DRAWER OPEN/CLOSE
BK3-3 BK3-2 BK5-3 SPP-200	- ONLINE/OFFLINE - PAPER EMPTY	NEAR END PAPER

5-8 Export/Import Driver Settings



1) Open the Printer Properties window.



Please refer to below paths of Printer Properties window.

*** Windows 7 / 8 / 10 / Server**

(Control Panel) – (Hardware and Sound) or (All Control Panel Items) – (Devices and Printers) – (Right-click the icon of the printer) – (Click **Printer Properties**)

2) Click **Printer Settings** tab.

3) Save and load your settings using the 'Export' and 'Import' features.



This features is only available within the same driver version.

6. Windows Driver Specification

6-1 Printer Fonts

- This Windows driver supports various printer fonts (device fonts) in the following table. Printing using these fonts is faster than using Windows fonts provided by the operating system.

- 180/203 DPI Models

Printer Font Name			Size (Dot)	Size (Point)	
				180 dpi	203 dpi
FontA1x1	FontA1x1[Ext.]	FontA1x1[255]	12x24	9.5	8.5
FontA1x2	FontA1x2[Ext.]	FontA1x2[255]	12x48	19	17
FontA2x1	FontA2x1[Ext.]	FontA2x1[255]	24x24	9.5	8.5
FontA2x2	FontA2x2[Ext.]	FontA2x2[255]	24x48	19	17
FontA2x4	FontA2x4[Ext.]	FontA2x4[255]	24x96	38.5	34
FontA4x2	FontA4x2[Ext.]	FontA4x2[255]	48x48	19	17
FontA4x4	FontA4x4[Ext.]	FontA4x4[255]	48x96	38.5	34
FontA4x8	FontA4x8[Ext.]	FontA4x8[255]	48x192	77	68
FontA8x4	FontA8x4[Ext.]	FontA8x4[255]	96x96	38.5	34
FontA8x8	FontA8x8[Ext.]	FontA8x8[255]	96x192	77	68
FontB1x1	FontB1x1[Ext.]	FontB1x1[255]	9x17	7	6
FontB1x2	FontB1x2[Ext.]	FontB1x2[255]	9x34	13.5	12
FontB2x1	FontB2x1[Ext.]	FontB2x1[255]	18x17	7	6
FontB2x2	FontB2x2[Ext.]	FontB2x2[255]	18x34	13.5	12
FontB2x4	FontB2x4[Ext.]	FontB2x4[255]	18x68	27	24
FontB4x2	FontB4x2[Ext.]	FontB4x2[255]	36x34	13.5	12
FontB4x4	FontB4x4[Ext.]	FontB4x4[255]	36x68	27	24
FontB4x8	FontB4x8[Ext.]	FontB4x8[255]	36x136	54.5	48.5
FontB8x4	FontB8x4[Ext.]	FontB8x4[255]	72x68	27	24
FontB8x8	FontB8x8[Ext.]	FontB8x8[255]	72x136	54.5	48.5
FontC1x1	FontC1x1[Ext.]	FontC1x1[255]	9x24	9.5	8.5
FontC1x2	FontC1x2[Ext.]	FontC1x2[255]	9x48	19	17
FontC2x1	FontC2x1[Ext.]	FontC2x1[255]	18x24	9.5	8.5
FontC2x2	FontC2x2[Ext.]	FontC2x2[255]	18x48	19	17
FontC2x4	FontC2x4[Ext.]	FontC2x4[255]	18x96	38.5	34
FontC4x2	FontC4x2[Ext.]	FontC4x2[255]	36x48	19	17
FontC4x4	FontC4x4[Ext.]	FontC4x4[255]	36x96	38.5	34
FontC4x8	FontC4x8[Ext.]	FontC4x8[255]	36x192	77	68
FontC8x4	FontC8x4[Ext.]	FontC8x4[255]	72x96	38.5	34
FontC8x8	FontC8x8[Ext.]	FontC8x8[255]	72x192	77	68

• 300 DPI Models

Printer Font Name			Size (Dot)	Size (Point)
				300 dpi
FontA1x1	FontA1x1[Ext.]	FontA1x1[255]	18x34	8
FontA1x2	FontA1x2[Ext.]	FontA1x2[255]	18x68	16.5
FontA2x1	FontA2x1[Ext.]	FontA2x1[255]	36x34	8
FontA2x2	FontA2x2[Ext.]	FontA2x2[255]	36x68	16.5
FontA2x4	FontA2x4[Ext.]	FontA2x4[255]	36x136	32.5
FontA4x2	FontA4x2[Ext.]	FontA4x2[255]	72x68	16.5
FontA4x4	FontA4x4[Ext.]	FontA4x4[255]	72x136	32.5
FontA4x8	FontA4x8[Ext.]	FontA4x8[255]	72x272	65.5
FontA8x4	FontA8x4[Ext.]	FontA8x4[255]	144x136	32.5
FontA8x8	FontA8x8[Ext.]	FontA8x8[255]	144x272	65.5
FontB1x1	FontB1x1[Ext.]	FontB1x1[255]	12x24	6
FontB1x2	FontB1x2[Ext.]	FontB1x2[255]	12x48	11.5
FontB2x1	FontB2x1[Ext.]	FontB2x1[255]	24x24	6
FontB2x2	FontB2x2[Ext.]	FontB2x2[255]	24x48	11.5
FontB2x4	FontB2x4[Ext.]	FontB2x4[255]	24x96	23
FontB4x2	FontB4x2[Ext.]	FontB4x2[255]	48x48	11.5
FontB4x4	FontB4x4[Ext.]	FontB4x4[255]	48x96	23
FontB4x8	FontB4x8[Ext.]	FontB4x8[255]	48x192	46
FontB8x4	FontB8x4[Ext.]	FontB8x4[255]	96x96	23
FontB8x8	FontB8x8[Ext.]	FontB8x8[255]	96x192	46

Printer Fonts are defined as follows.

1) FontA1x2 (Double height)

- ANSI Character code support (Code Page 1252)
- Font size (Dot): 12 x 48 (180/203dpi), 18 x 68 (300dpi)
- Font size (Point): 19 (180 dpi)
- Font size (Point): 17 (203 dpi)
- Font size (Point): 16.5 (300dpi)

2) FontA1x2[Ext.] (Double height)

- IBM expansion Character code support (Code Page 437)
- Font size (Dot): 12 x 48 (180/203dpi), 18 x 68 (300dpi)
- Font size (Point): 19 (180 dpi)
- Font size (Point): 17 (203 dpi)
- Font size (Point): 16.5 (300dpi)

3) FontA1x2[255] (Double height)

- Buyer exclusive code support (User Code page)
- Font size (Dot): 12 x 48 (180/203dpi), 18 x 68 (300dpi)
- Font size (Point): 19 (180 dpi)
- Font size (Point): 17 (203 dpi)
- Font size (Point): 16.5 (300dpi)

6-2 Special functions

- This Windows driver supports the special functions as shown in the following table.
Select **Font Control** font first and use the characters in the table to use the special functions.



Take care as this function is not for printing general texts.
Character 8 function (Presenter Paper Eject)
only works with BK3-3 Presenter Model.

Character	Special Function
5	Prints HT (0 x 09)
6	Prints LF (0 x 0A)
7	Prints CR (0 x 0D)
8	Presenter Paper Eject
a	Open Drawer 2 (50ms pulse width)
b	Open Drawer 2 (100ms pulse width)
c	Open Drawer 2 (150ms pulse width)
d	Open Drawer 2 (200ms pulse width)
e	Open Drawer 2 (250ms pulse width)
f	Open Drawer 2 without paper feeding (50ms pulse width)
g	Cut Receipt (Partial cut) without paper feeding
i	Prints the NV Image (FS p) saved in the 00 address (double-size)
j	Prints the NV Image (FS p) saved in the 01 address (double-size)
k	Prints the NV Image (FS p) saved in the 02 address (double-size)
l	Prints the NV Image (FS p) saved in the 03 address (double-size)
m	Prints the NV Image (FS p) saved in the 04 address (double-size)
p	Does not add HRI characters to the barcode
q	Adds HRI characters in Font A above the barcode
r	Adds HRI characters in Font A below the barcode
s	Adds HRI characters in Font B above the barcode
t	Adds HRI characters in Font B below the barcode
u	Turns white/black reverse printing mode on
v	Turns white/black reverse printing mode off
w	Aligns text to the left
x	Aligns text to the center
y	Aligns text to the right
A	Open Drawer 1 (50ms pulse width)
B	Open Drawer 1 (100ms pulse width)
C	Open Drawer 1 (150ms pulse width)
D	Open Drawer 1 (200ms pulse width)
E	Open Drawer 1 (250ms pulse width)
F	Open Drawer 1 without paper feeding (50ms pulse width)

G	Prints the NV bit map (GS (L) saved in the 00 address
H	Prints the NV bit map (GS (L) saved in the 01 address
I	Prints the NV bit map (GS (L) saved in the 02 address
J	Prints the NV bit map (GS (L) saved in the 03 address
K	Prints the NV bit map (GS (L) saved in the 04 address
P	Cut Receipt (Partial cut)
R	Prints the NV Image (FS p) saved in the 00 address
S	Prints the NV Image (FS p) saved in the 01 address
T	Prints the NV Image (FS p) saved in the 02 address
U	Prints the NV Image (FS p) saved in the 03 address
V	Prints the NV Image (FS p) saved in the 04 address
[	Prints the NV bit map (GS (L) saved in the 00 address (double-size)
]	Prints the NV bit map (GS (L) saved in the 01 address (double-size)
^	Prints the NV bit map (GS (L) saved in the 02 address (double-size)
_	Prints the NV bit map (GS (L) saved in the 03 address (double-size)
`	Prints the NV bit map (GS (L) saved in the 04 address (double-size)

1) Example

Select **Font Control** font and send 6 for “LF” (Line Feed) operation (instead of printing character “6”).

2) Font Control font functions.

Font Name	Special Functions	Size (Point)		
		180 dpi	203 dpi	300dpi
Font Control	Open Drawer #1/# 2 Cut Receipt Cut receipt (without paper feeding) Justification (Left/Center/Right) Output HT, Output LF, Output CR, Print NV Image	9.5	8.5	6

7. Use of Windows Driver

Sample codes are installed "C:\BIXOLON\POS Windows Driver\Sample", when the driver install.



If Windows was installed at "D" drive, the sample codes are installed "D" drive.

7-1 Use of Visual Basic

- This section contains example codes to control the printer using Windows driver with Visual Basic.

7-1-1 Windows Driver Selection

When you select the printer driver, please designate a device name by the printer name. The following example code explains how to select "BIXOLON SRP-350III" Windows driver.

```
For Each prnPrinter In Printers
```

```
    If prnPrinter.DeviceName = "BIXOLON SRP-350III" Then
```

```
        Set Printer = prnPrinter
```

```
    Exit For
```

```
End If
```

```
Next
```

7-1-2 Text Printing

The following example code explains how to print texts using Windows fonts and printer fonts (device fonts).

```
'Print in Windows font
Printer.FontSize = 9
Printer.FontName = "Arial"
Printer.Print "Arial Test"

'Print in printer font
Printer.FontSize = 9.5
Printer.FontName = "FontA1x1"
Printer.Print "FontA1x1 Font"

Printer.EndDoc
```

7-1-3 Barcode Printing

The following example code explains how to print the barcode (JAN8 (EAN)).

```
'Print Bar Code.
Printer.FontSize = 20

Printer.FontName = "Barcode4"
Printer.Print "1234567"

Printer.EndDoc
```

The following example code explains how to print the 2D barcode (PDF417).

```
'Print Two-dimensional Codes.
Printer.FontSize = 9.5

Printer.FontName = "2D-Code1"
Printer.Print "Print Test PDF417"

Printer.EndDoc
```

7-2 Use of WordPad

7-2-1 WordPad Environment Settings

Launch WordPad, set the printing related options as follows, and test the printer with WordPad.

- Select printer

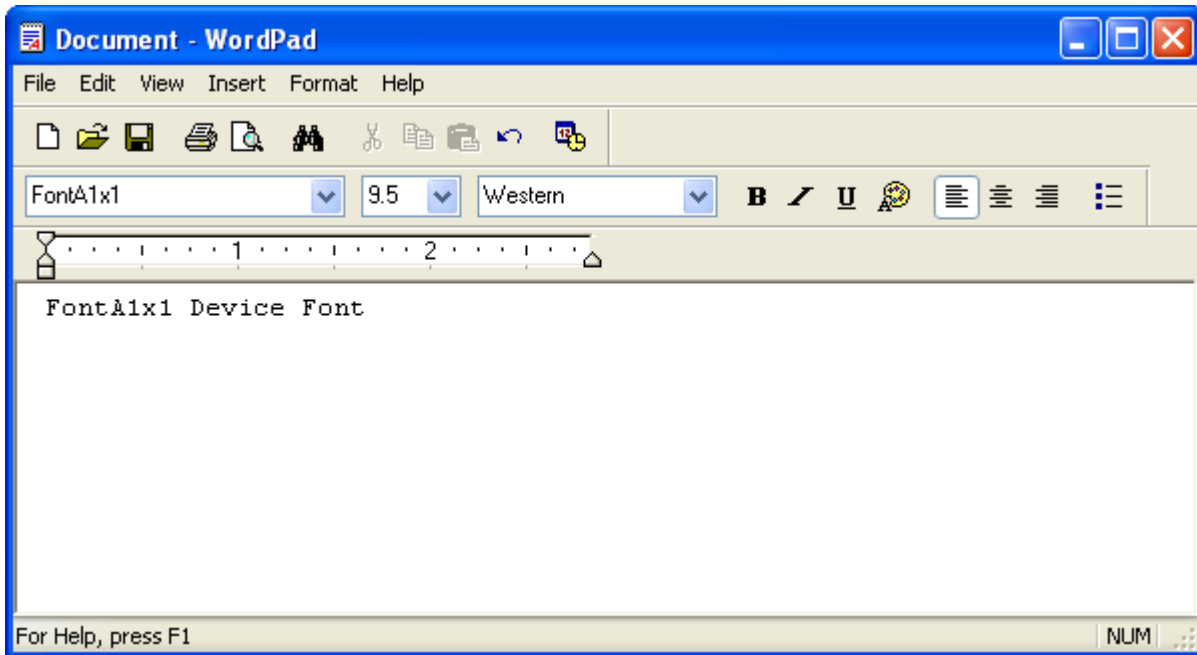
Select "Print" from the "File" menu, and select the BIXOLON printer.

- Set paper size, orientation, margin, etc.

Select the "Page Setting" from "File" menu, and set paper size, orientation, and margin.

7-2-2 Text Printing

Use the printer's Windows driver to output text.



- 1) Select the font from the font selection box (FontA1x1).
- 2) Select the point size from the point selection box (180 DPI: 9.5, 203 DPI: 8.5).
- 3) Enter the text to print.
- 4) Click the Print icon in the toolbar to print the text.

Revision history

Ver.	Date	Description
1.00	13-03-2018	New
1.01	04-09-2018	SRP-330, SRP-383 Added
1.02	23-10-2018	BK3-3 Added
1.03	08-03-2019	SRP-Q200 Added
1.04	03-12-2019	BK3-2, BK3-3 Accessory Font Control Added
1.05	15-01-2020	Pixel Interpolation, Font Replacement Added
1.06	20-05-2020	Network Auto Installation Added Sample program install path changed
1.07	16-09-2020	Supported OS Update, SRP-S320 Added
1.08	11-10-2020	SRP-S3000 Added
1.09	26-02-2021	SRP-B300, SRP-S200 Added
1.10	15-06-2022	SRP-330III/332III, SRP-350V/352V, SRP-350plusV/352plusV Added
1.11	30-08-2022	SRP-380II/382II Added
1.12	14-04-2023	BK5-3, G30, SPP-200 Added
1.13	16-10-2023	SRP-Q300II Added
1.14	03-06-2024	SRP-S300II Added
1.15	26-12-2024	SRP-380II/382II -> SRP-380plus/382plus Change model name SRP-G300 Added Added margin crop of the crop function
1.16	31-03-2025	BK5-4 Added Added 'Base on Image Width' function
1.17	05-06-2025	SRP-B300II Added
1.18	10-07-2025	Added Driver Status Email Notification Feature Unified POS Utility -> Bixelon Utility Changed
1.19	11-11-2025	SPP-300 Added Dither Advanced UI Added
1.20	10-06-2026	SPP-C200/C300, SPP-R200/R200II/R200III SPP-R210/R220/R230, SPP-R300/R310/R318 SPP-R400/R410/R418 Added Added Export/Import feature for driver settings Removed CPL settings