

BIXOLON

Software Manual

Windows Driver

THERMAL RECEIPT PRINTER

Ver. 1.15

www.bixolon.com

Table of Contents

| | |
|--|----|
| Copyright..... | 4 |
| 1. Operating System (OS) Environment | 6 |
| 2. Supported Printers | 7 |
| 3. Windows Driver Preparation | 8 |
| 4. Windows Driver Installation | 9 |
| 4-1 Installation | 9 |
| 4-2 Uninstallation..... | 10 |
| 5. Windows Driver Settings | 11 |
| 5-1 Layout..... | 11 |
| 5-1-1 Paper Size | 12 |
| 5-1-2 Paper Type | 14 |
| 5-1-3 CPL Setting | 15 |
| 5-1-4 Copies | 16 |
| 5-1-5 Image Rotation | 16 |
| 5-1-6 Paper Reduction | 16 |
| 5-1-7 Crop Function..... | 17 |
| 5-1-8 Orientation | 17 |
| 5-2 Document Settings..... | 18 |
| 5-2-1 Send Command | 19 |
| 5-2-2 Cash Drawer/Internal Beep | 20 |
| 5-2-3 Line Feed | 21 |
| 5-2-4 Paper Cut..... | 21 |
| 5-3 NV Image..... | 22 |
| 5-4 Barcode | 23 |
| 5-4-1 1D Barcode..... | 24 |
| 5-4-2 2D Barcode..... | 26 |
| 5-5 Dithering | 28 |
| 5-6 Utility..... | 30 |
| 5-6-1 Unified POS Utility | 31 |
| 5-6-2 Special Font Edit Utility | 31 |
| 5-6-3 Journal Viewer | 32 |
| 5-6-4 Text-Key Function | 33 |
| 5-6-5 Print Preview | 37 |
| 5-6-6 Font Replacement | 38 |
| 5-7 Bidirectional Communication | 40 |

| | |
|---|-----------|
| 6. Windows Driver Specification..... | 42 |
| 6-1 Printer Fonts | 42 |
| 6-2 Special functions | 45 |
| 7. Use of Windows Driver | 47 |
| 7-1 Use of Visual Basic..... | 47 |
| 7-1-1 Windows Driver Selection..... | 47 |
| 7-1-2 Text Printing..... | 48 |
| 7-1-3 Barcode Printing..... | 48 |
| 7-2 Use of WordPad..... | 49 |
| 7-2-1 WordPad Environment Settings | 49 |
| 7-2-2 Text Printing..... | 50 |

Copyright

© BIXOLON Co., Ltd. All rights reserved.

This user manual and all property of the product are protected under copyright law. It is strictly prohibited to copy, store, and transmit the whole or any part of the manual and any property of the product without the prior written approval of BIXOLON Co., Ltd. The information contained herein is designed only for use with this BIXOLON product. BIXOLON is not responsible for any direct or indirect damages, arising from or related to use of this information.

- The BIXOLON logo is the registered trademark of BIXOLON Co., Ltd.
- All other brand or product names are trademarks of their respective companies or organizations.

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 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 SRP-B300 SPP-200 G30 SRP-G300 | 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

- 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' tab is active, showing 'Document Settings' and 'NV Image' sub-tabs. The 'Document Settings' sub-tab is selected, displaying the following options:

- Paper:**
 - Paper Size: 80 x 3276 mm (dropdown menu with a '...' button)
 - Paper Type: Receipt (dropdown menu)
- Number of copies:**
 - Copies: 1 (spin box with range [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% (dropdown menu) %
 - ☒ Disable reducing barcode
 - ☐ Enable reducing barcode
 - ☐ Pixel Interpolation
- Crop Function:**
 - ☐ Top Crop Length: 0 (spin box) [Pixel]
 - ☐ Bottom Crop Length: 0 (spin box) [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**)

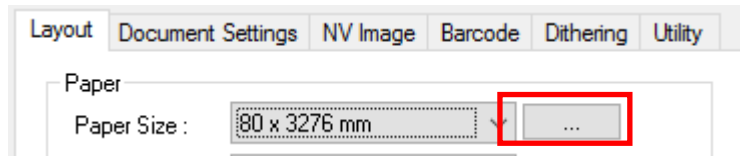
- 2) Click the **Layout** tab.

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.

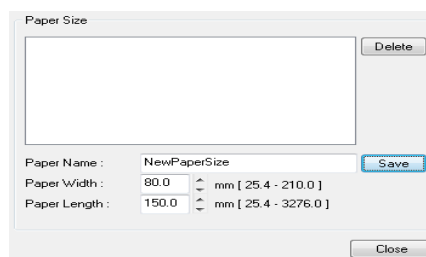
| Models | Paper sizes can be selected | | |
|--|-----------------------------|------------------------------|-----------------|
| SRP-Q200 BK3-2 SRP-S200 | 58 × 297 mm | 58 × 3276 mm | A4 210 × 297 mm |
| SRP-Q300/Q302 SRP- Q300II SRP-QE300/QE302 SRP-E300/E302 SRP-380/382/383 SRP-380plus /382plus SRP-350III/352III 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 SPP-200 SRP-G300 | 80 × 297 mm | 80 × 3276 mm | A4 210 × 297 mm |
| SRP-S300/S320/S3000/S300II, G30, SRP-F313II | 80 × 297 mm 83 × 297 mm | 80 × 3276 mm 83 × 3276 mm | A4 210 × 297 mm |

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

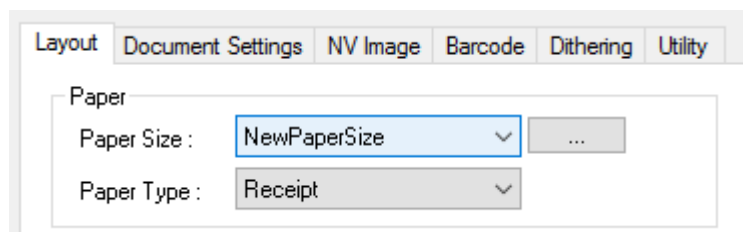


Click **Save** after specifying the paper width/length and a paper name. If the specified paper name already exists on the system, you can update the paper width/length.

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.

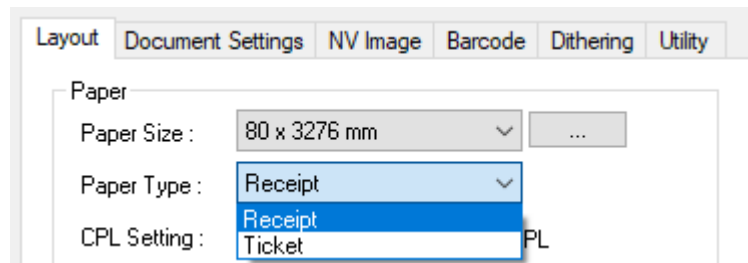


Delete button : Deletes the paper size selected in the list.
Save button : Adds a new paper size or update the paper size selected in the list if the paper name already exists on the system.

5-1-2 Paper Type

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

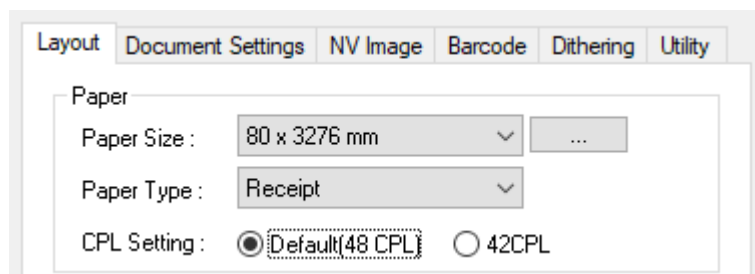
- Receipt** : Receipt allows flexible paper length according to the data length.
Ticket : Ticket print in fixed length even the print data is short.



5-1-3 CPL Setting

You can choose **48 CPL** or **42 CPL** Mode.

In order to get a good print result, first proceed to CPL setup through the **Unified POS Utility**.



Supported Models for CPL Setting
SRP-B300, SRP-Q300II

5-1-4 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.

5-1-5 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.

5-1-6 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, SRP-B300, BK3-3/2

5-1-7 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 | | | |
|--|--------------------------------|----------------------------------|---|
| <input checked="" type="checkbox"/> Left Crop Length | <input type="text" value="0"/> | <input type="button" value="↑"/> | <input type="button" value="↓"/> [mm] <input type="button" value="v"/> |
| <input checked="" type="checkbox"/> Right Crop Length | <input type="text" value="0"/> | <input type="button" value="↑"/> | <input type="button" value="↓"/> [Pixel] <input type="button" value="v"/> |
| <input checked="" type="checkbox"/> Top Crop Length | <input type="text" value="0"/> | <input type="button" value="↑"/> | <input type="button" value="↓"/> [Margin Crop] <input type="button" value="v"/> |
| <input checked="" type="checkbox"/> Bottom Crop Length | <input type="text" value="0"/> | <input type="button" value="↑"/> | <input type="button" value="↓"/> [mm] <input type="button" value="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, SRP-B300, BK3-3/2

5-1-8 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 | | |
|--|----|-----------|
| <input type="checkbox"/> Open before printing #1 | 50 | [ms] |
| <input type="checkbox"/> Open before printing #2 | 50 | [ms] |
| <input type="checkbox"/> Open after printing #1 | 50 | [ms] |
| <input type="checkbox"/> Open after printing #2 | 50 | [ms] |
| <input type="checkbox"/> Alarm on End Page | 3 | [times] |
| <input checked="" type="checkbox"/> 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

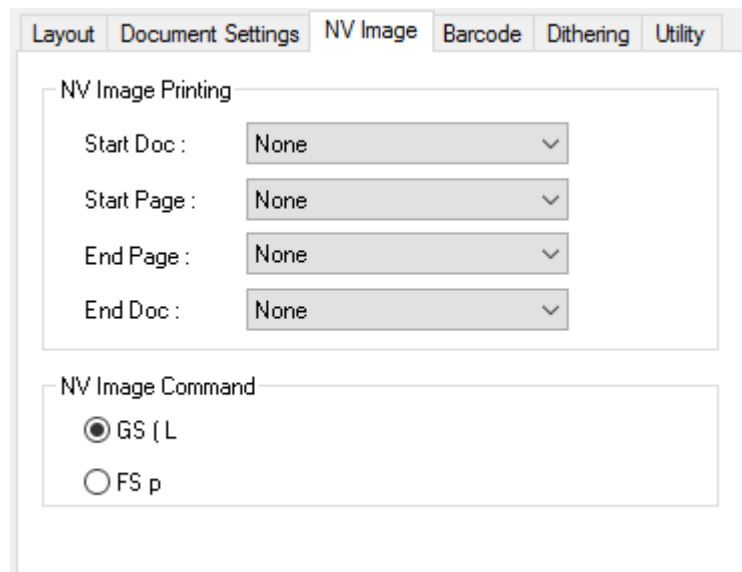
It is possible to set the number of line feeds between 0 and 99 for adding blank lines at the end of printing.

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. In the 1D-Barcodes section, the Font Name is set to 'Barcode1' and the Type is 'UPC-A'. In the 2D-Barcodes section, the Font Name is '2D-Code1' and the Type is 'PDF417'. Each section has a 'Properties' button below the type selection.

- 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

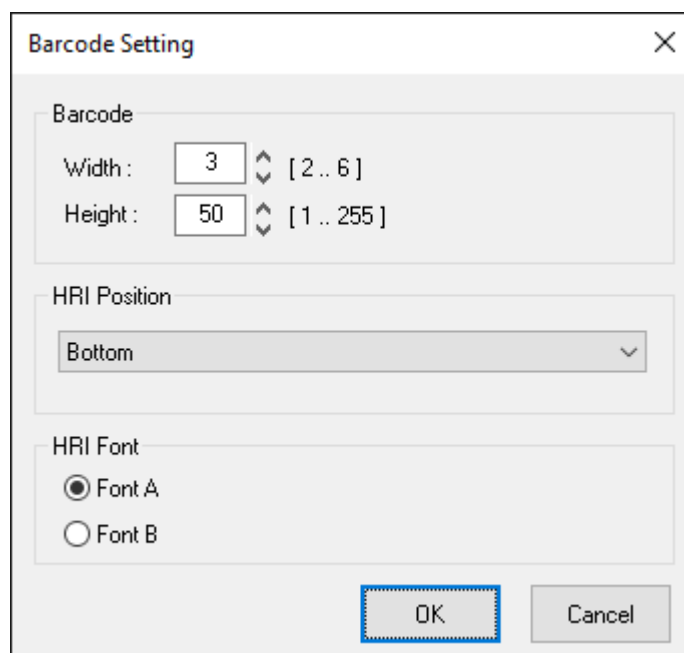
Windows driver supports one-dimensional barcode fonts as shown in the following table. Barcodes can be printed on the printer by using following font names.

| 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, 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 | <input checked="" type="radio"/> | |
| | Font B | <input type="radio"/> | |

5-4-2 2D Barcode

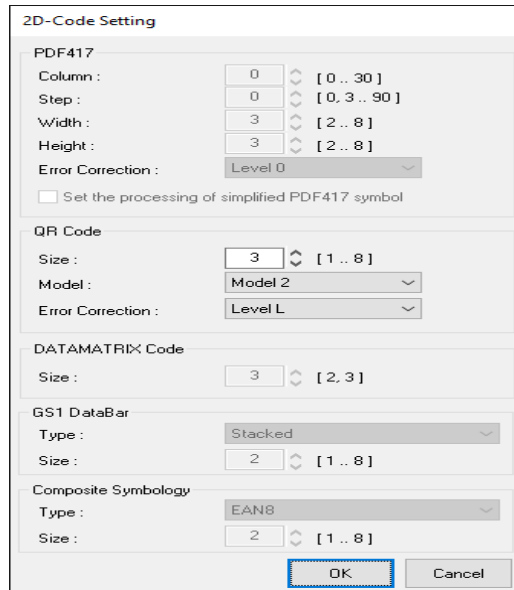
Windows driver supports two-dimensional barcode fonts as shown in the following table. Barcodes can be printed on the printer by using following font names.

| 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, 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 |
| C | SRP-330 |

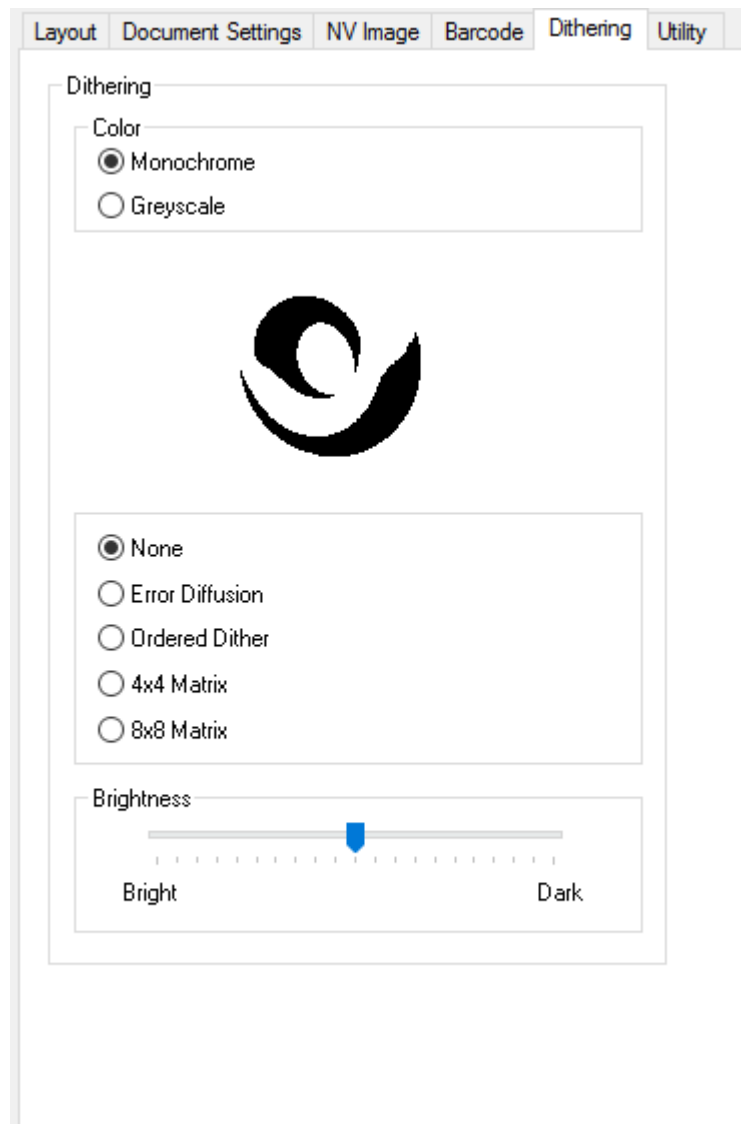
To change the default value of 2d barcode properties, select a Font Name and Type of two-dimensional barcode, and then click Properties. Click OK after changing the values of properties for 2d barcode.



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, 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 |
| <input type="checkbox"/> 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 | 4x4 Matrix |
| Error Diffusion | 8x8 Matrix |
| Ordered Dither | |

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
G30

5-6 Utility

| Layout | Document Settings | NV Image |
|---|-------------------|----------|
| Barcode | Dithering | Utility |
| <div>Unified POS Utility</div> <div>Unified POS Utility</div> | | |
| <div>Extended Function</div> <div>Special Font(FontcontrolA) Edit</div> | | |
| <input checked="" type="checkbox"/> Enable Journal <div>Journal Viewer</div> | | |
| <input checked="" type="checkbox"/> Enable Text-Key Function <div>Text-Key Function</div> | | |
| <input checked="" type="checkbox"/> Enable Print Preview <div>The preview application runs before printing.</div> | | |
| <input checked="" type="checkbox"/> Enable Font Replacement Function <div>Font Replacement Function</div> | | |

- 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.

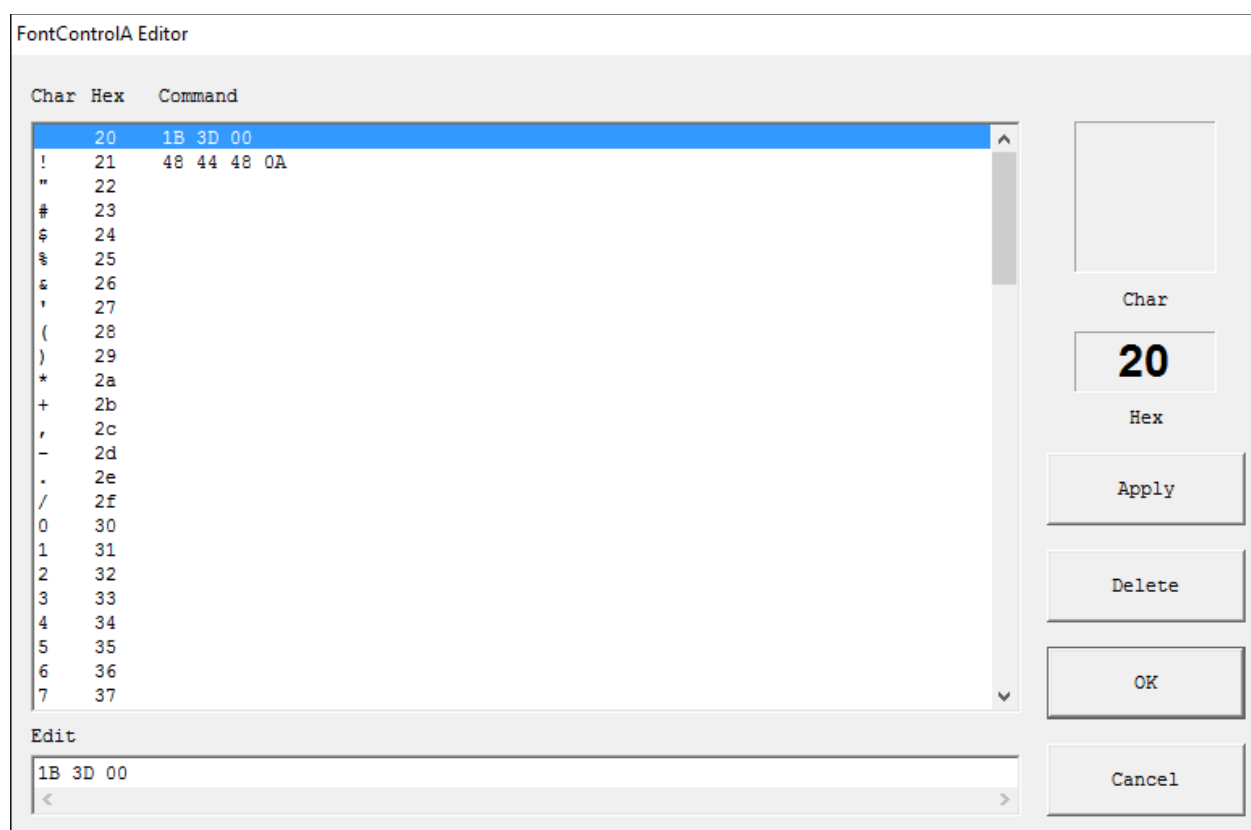
5-6-1 Unified POS Utility

Refer to the **Unified POS 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.

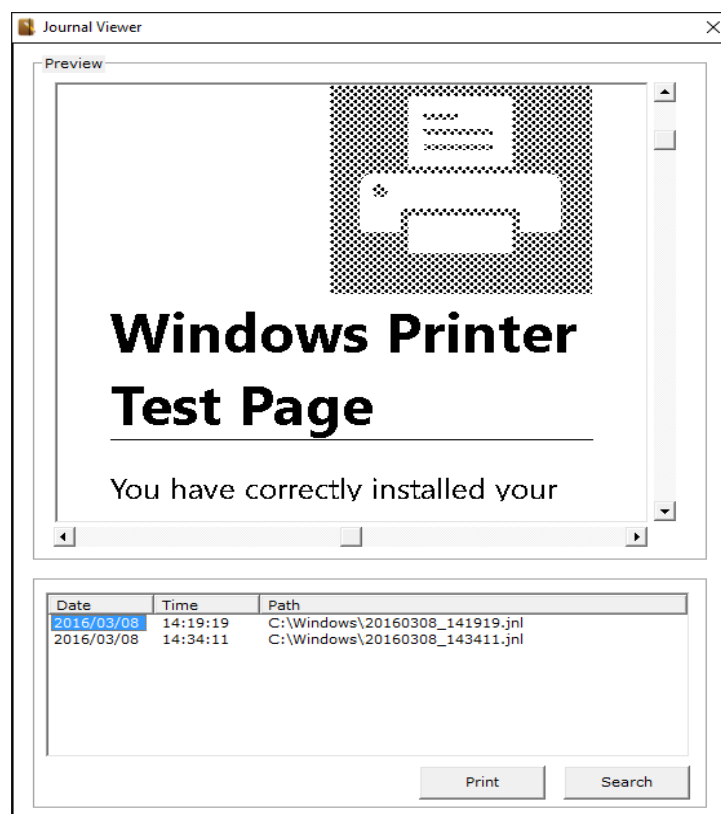
- 1) Click **Special Font Edit**.
- 2) Select an ASCII code character and enter the print command. All values should be entered in hexadecimal number format.
- 3) Click **Apply** and then click **OK**.



5-6-3 Journal Viewer

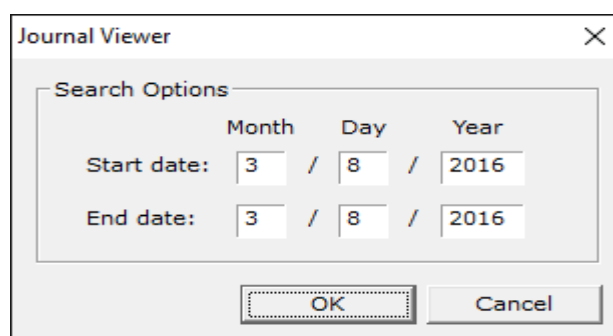
Journal is a function to save a copy of printed receipts. Copies can be saved without using journal printer with this function. Journal saves each printed document in a file and the saved file can be viewed by using this utility.

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.



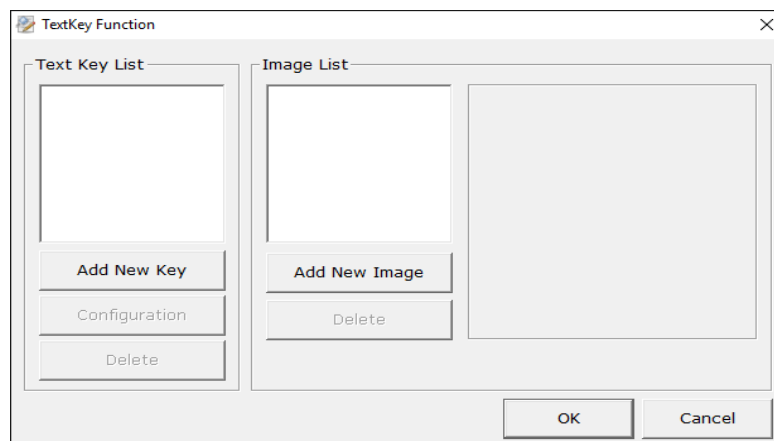
4) Select the file to print from the list and click **Print** to send the data stored in the file to the printer.

5-6-4 Text-Key Function

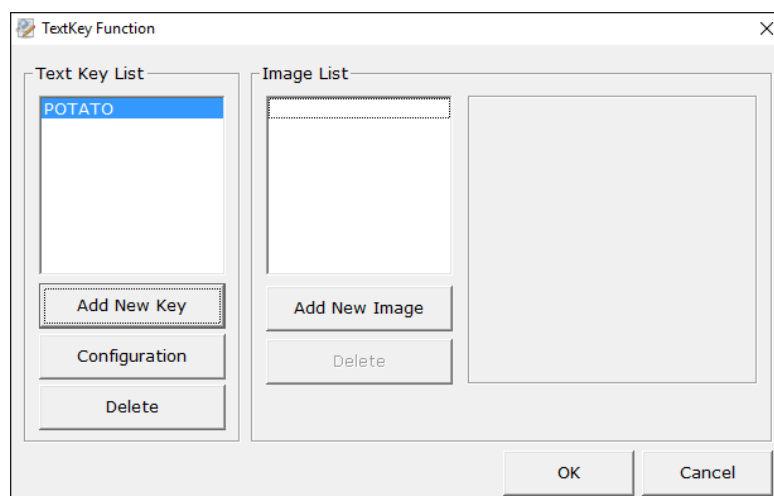
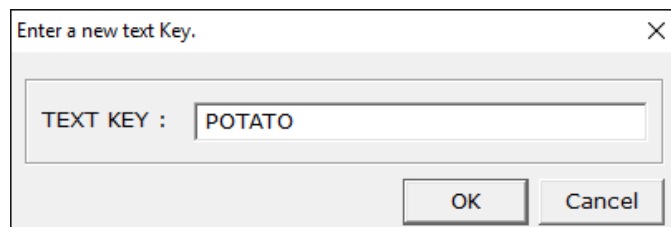
Text-Key Function is a utility to replace specific text (Text-Key) with other texts or graphic images, and to add images to the bottom of receipts. This function can be used only when using printer fonts (device fonts). It has no effect when using Windows fonts (True Type fonts) or the data for Text-Key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

► How to replace Text-Key with other texts.

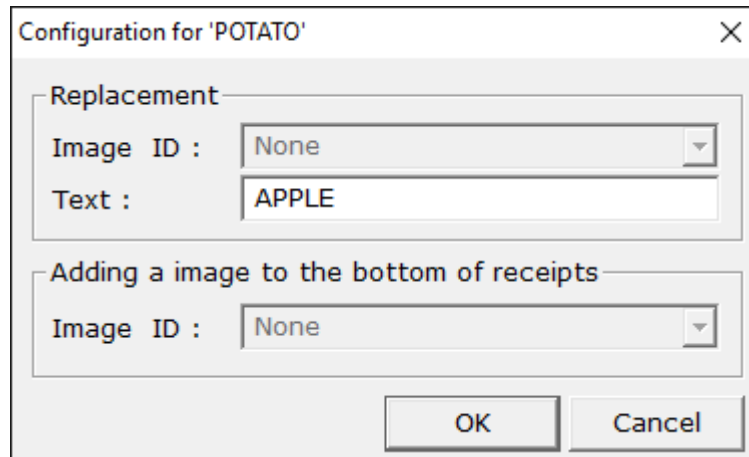
1) Tick **Enable Text-Key Function** and then click **Text-Key Function**.



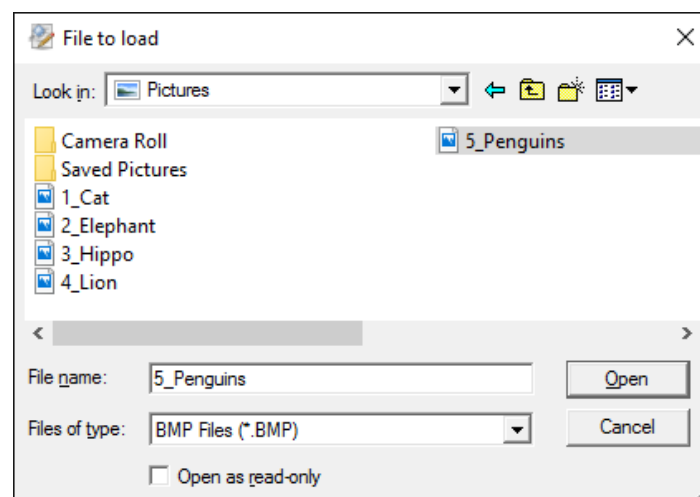
2) Click **Add New Key**, type a text to be used as Text-Key, and then click **OK**.



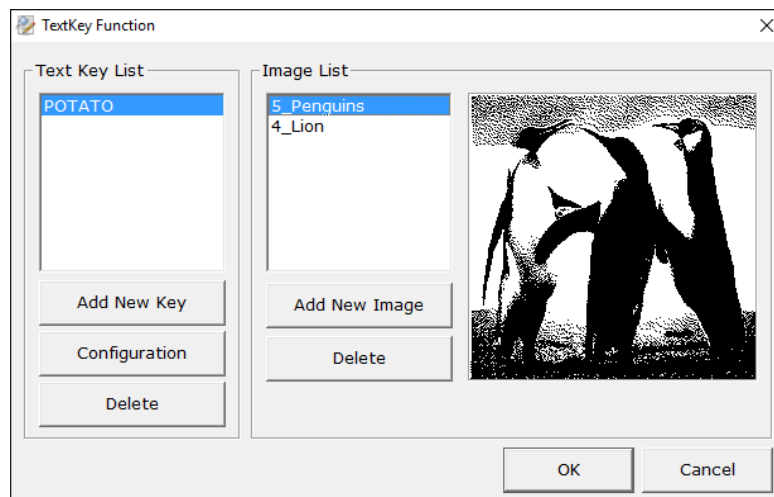
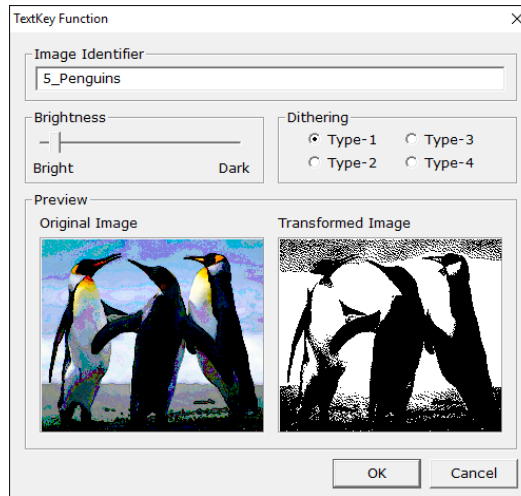
- 3) If the Text-Key is selected, The **Configuration** button is enabled.
- 4) Click **Configuration** to enter a text, which is used to replace the selected Text-Key with the text entered. For example, if you enter “**APPLE**” in the text box as below, the Text-key, “**POTATO**” can be replaced with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

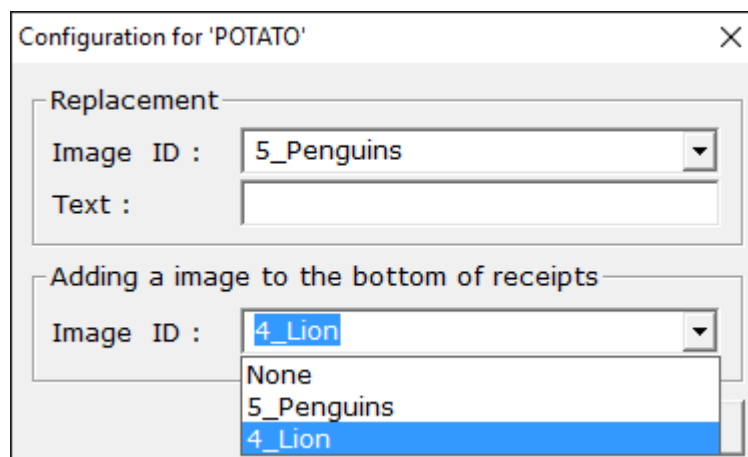
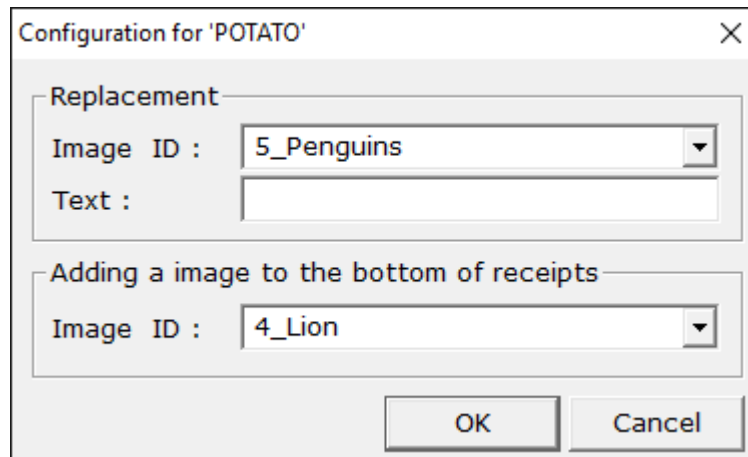


- 3) Enter a unique name to be added, adjust the brightness, select a dithering type, and then click **OK**. Repeat 2 to 3 step to add up to as much as you want.



- 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.

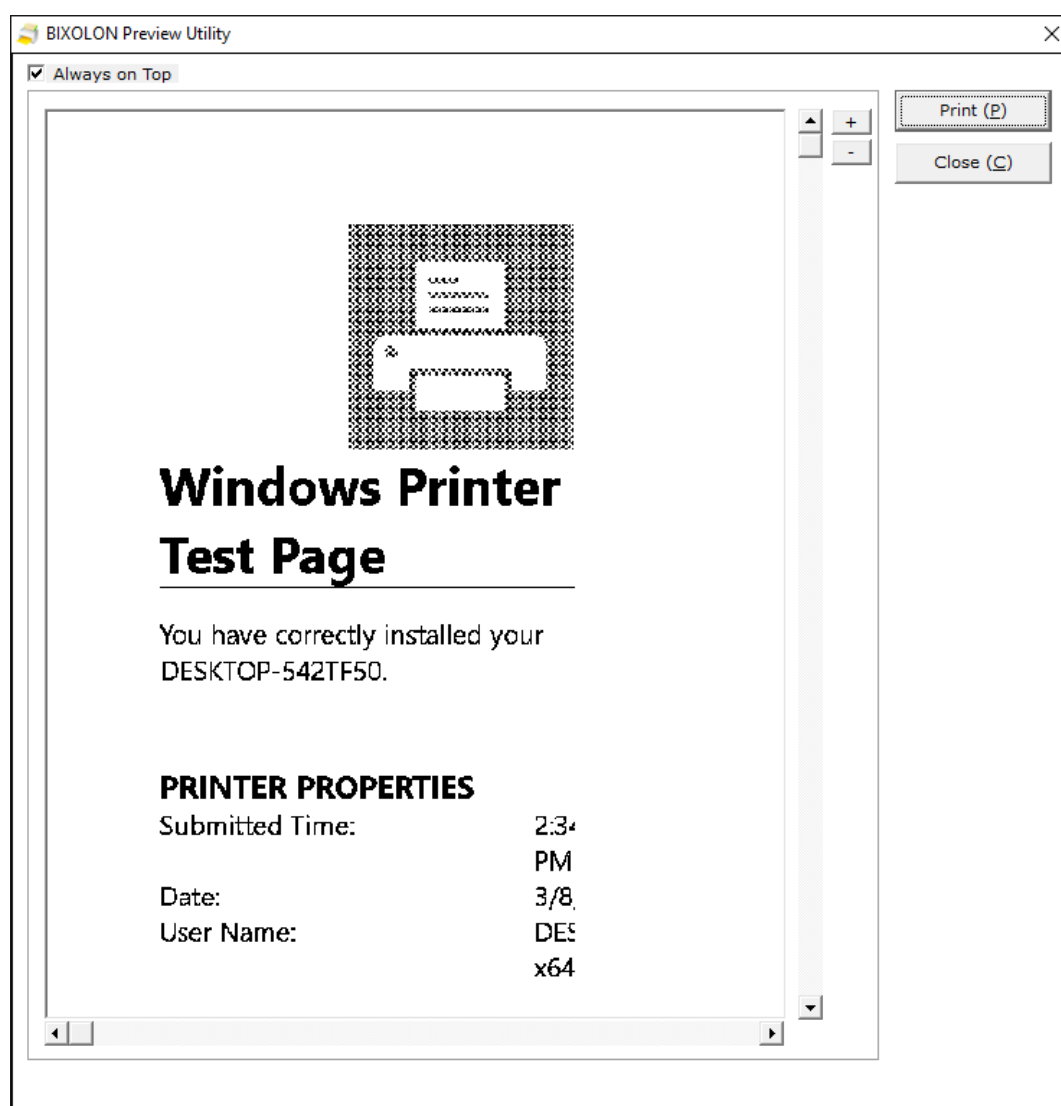
5-6-5 Print Preview

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.

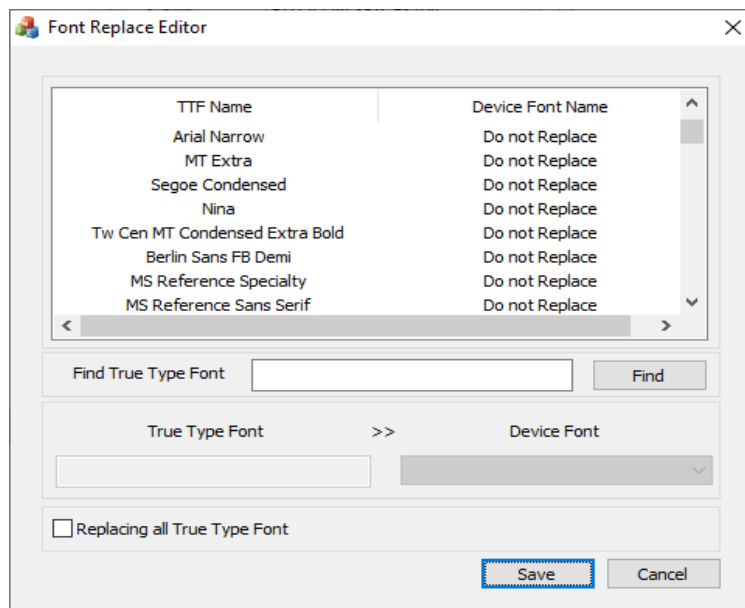
5-6-6 Font Replacement

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

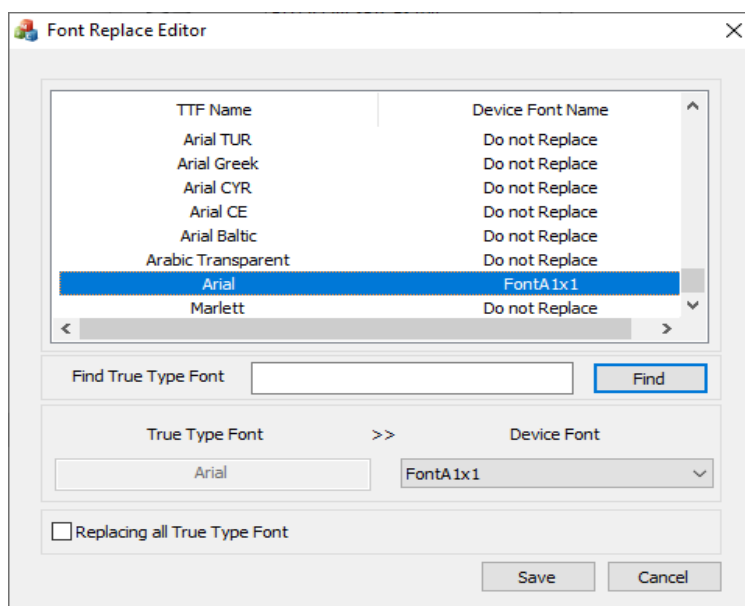
It has no effect if no include Windows fonts in Print-Job data. In order to Windows fonts replace to double-byte printer fonts, you should download double-byte printer font to printer through the **Unified POS Utility**.

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

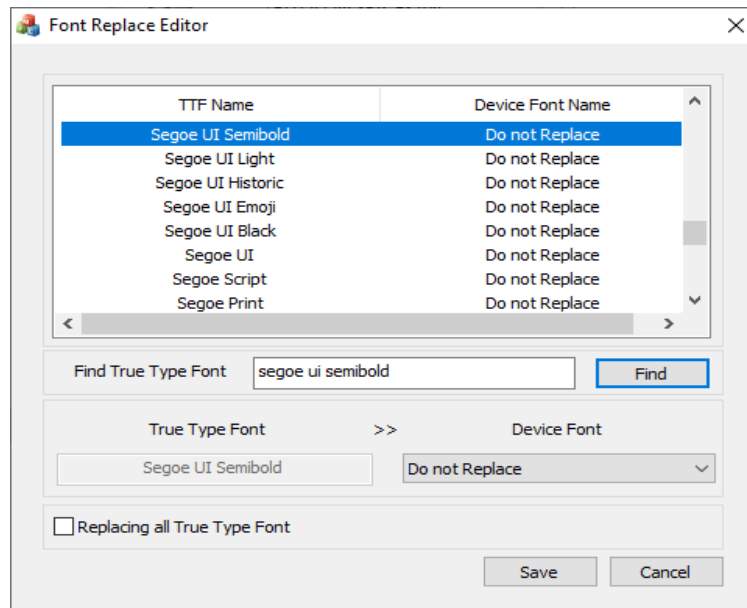
1) Tick Enable Font Replacement Function and then click Font Replacement Function



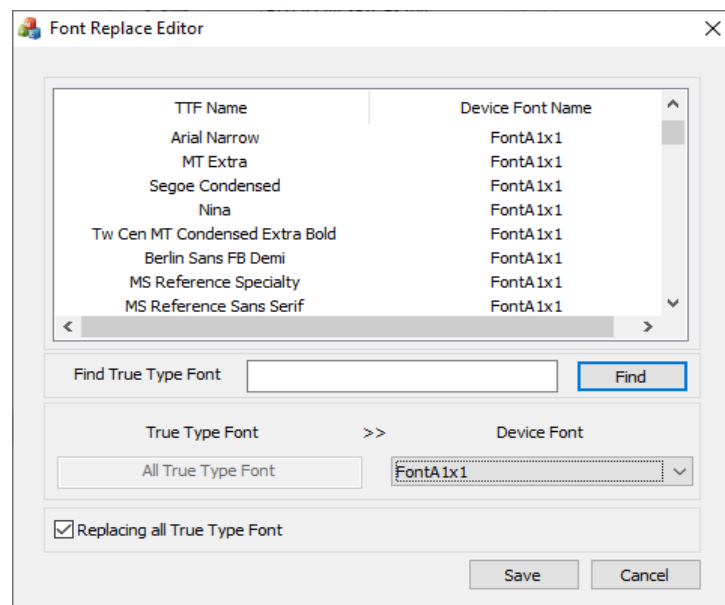
2) Select Windows font (True Type font) and Set printer font (device font)



- 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**.

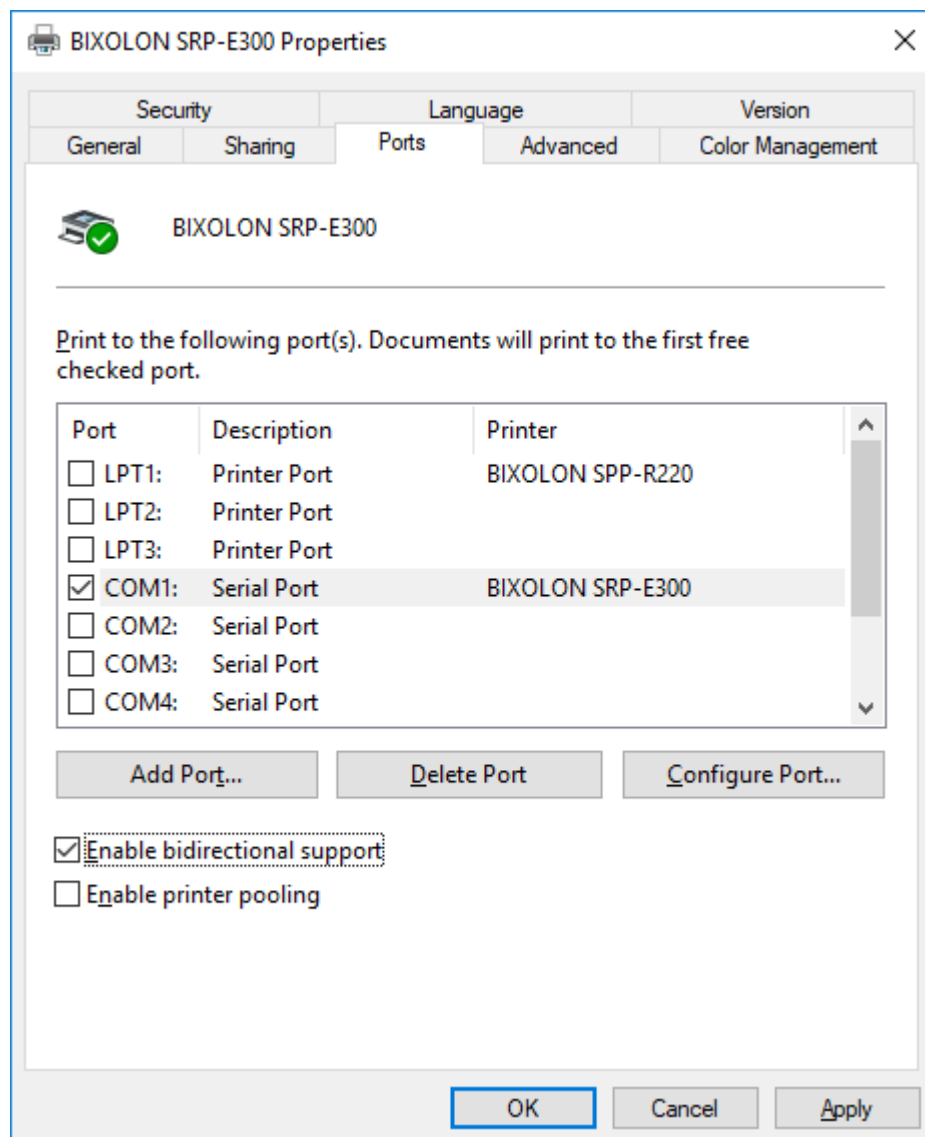


- 5) If finish setting, Click **Save**.



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

5-7 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 |

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

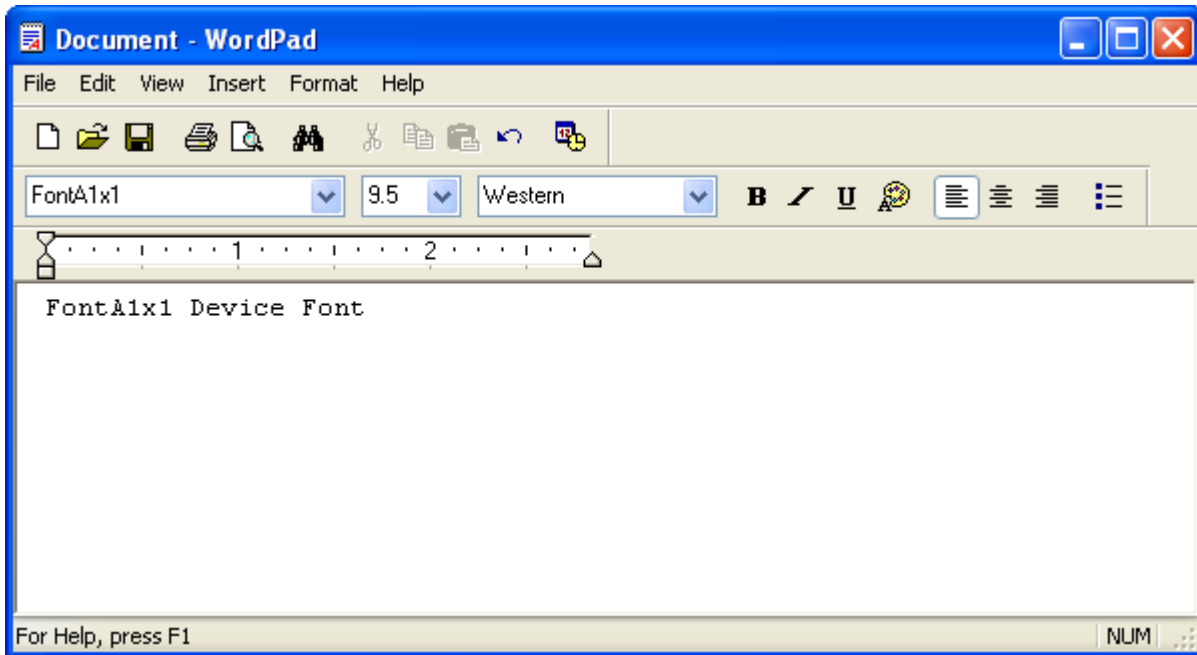
Select "Print" from the "File" menu, and select the BIXOLON printer.

- 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

[illegible]