

BIXOLON

Software Manual

Unified POS Utility

THERMAL RECEIPT PRINTER

Ver. 2.09

<http://www.bixolon.com>

Introduction

The Unified POS Utility can be used for various purposes.

Details on the usage of each function are described as follows.

1) VMSM(Virtual Memory Switch Manager)

This function is used to set the virtual memory switch used for the thermal printer suitable for the user's environment.

2) NV Image Tool(Non-Volatile Image Tool)

This function helps you to download user-defined images to the flash memory in the printer and to recall and print those images with fast speed.

3) Command Test Editor

This function is used to test printing-related commands and create a brief label sample for test printing.

Symbols Information



 Caution	Information that must be observed to avoid damage to your equipment or a malfunction.
 Note	Important information and useful tips.

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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 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)

2. Supported Printers

“Unified POS Utility” is available for the following BIXOLON printers.

BGT-100P/102P Printer
SRP-330/330II/332II
SRP-340II/342II
SRP-350III/352III
SRP-350IIIBE
SRP-350plusIII/352plusIII
SRP-380/382/383
SRP-E300/E302
SRP-F310II/F312II/F313III
SRP-Q300/Q302/Q200
SRP-QE300/QE302
SRP-S300/S320/S3000/S200
SRP-B300
BK3-3
BK3-2
STP-103III
SPP-100II

3. Usage Preparation

1) Printer and PC Connection.

Connect the printer and PC via the interface cable.
(The interfaces available for usage are Serial, Parallel, USB, LAN, WLAN and Bluetooth.)

2) Unified POS Utility Program Execution.

The program can be installed from the accompanying CD, and Latest file versions can be downloaded from the BIXOLON website. (<http://www.bixolon.com>)

3) Select the interface type and communication conditions.

4) Click on the "Connect" Button. If the connection is successful, the inactive buttons become active with the message "The printer is connected".



Caution

Please select correct information of the interface type and communication conditions. If the connection fails, the following error message appears. "Cannot open port". In case of the PC was connected with many printers, please be careful of the port selecting.

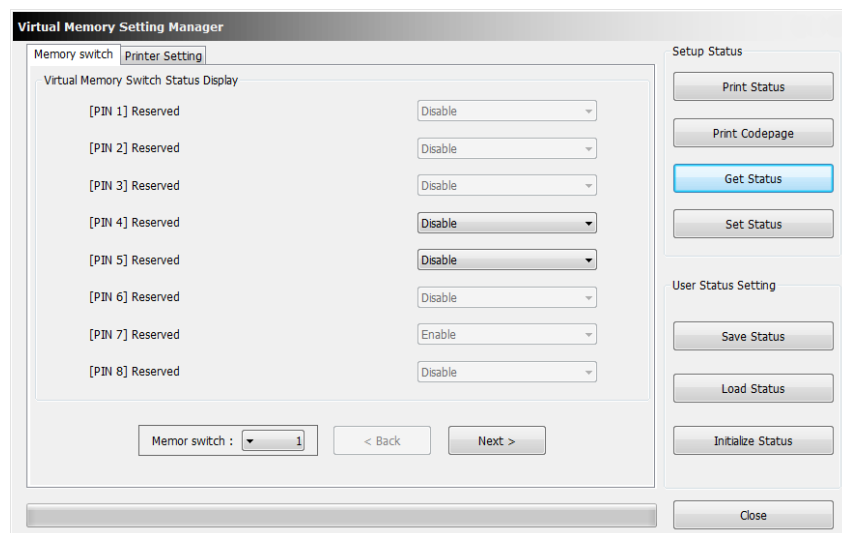
4. Unified POS Utility Usage

4-1 VMSM

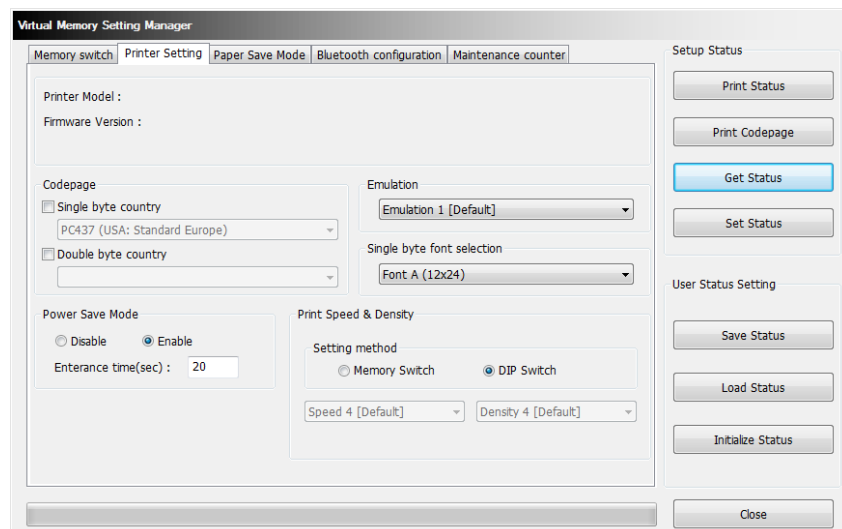
- This function is used to set the virtual memory switch used for the thermal printer suitable for the user's environment.
- If the Communication Setting is OK, click the "VMSM" button.

4-1-1 Getting the Memory Switch Status of the Printer

- 1) Click the "Get Status" button. It gets the status of the Printer Setting.
- 2) The "Memory switch" Tab in the Printer Status window displays the current virtual memory switch settings of the printer, and allows new settings to be defined.

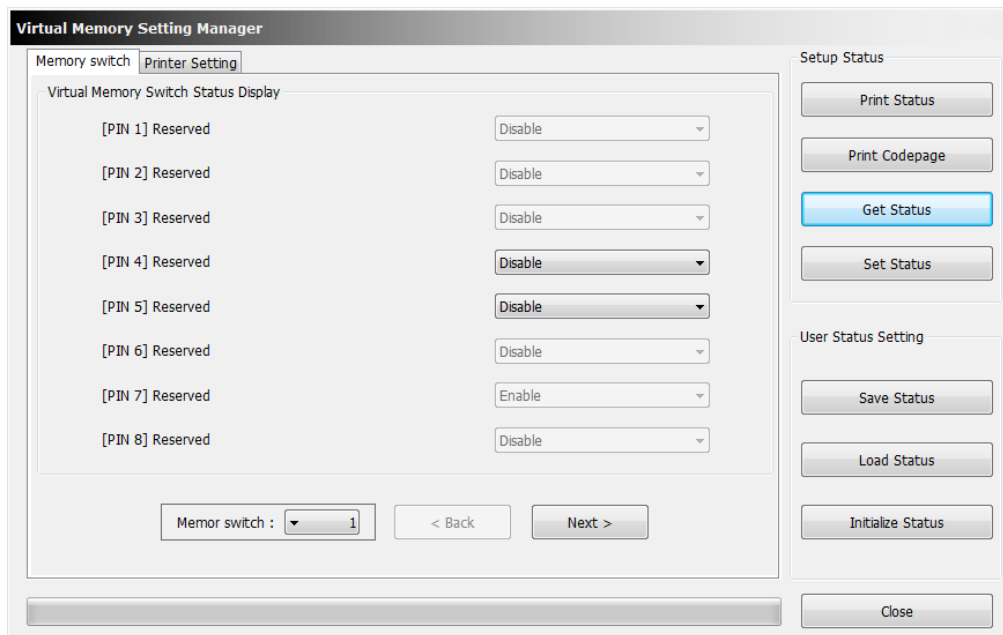


- 3) The "Printer Setting" Tab displays printer information, and code page information, and allows new settings to be defined.



4-1-2 Setting the memory switch status of the Printer

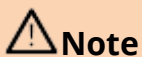
After getting the memory switch status of the printer, the status of the printer can be modified.



- 1) "Get Status"
Pressing this button displays the current memory switch settings read from the printer.
- 2) "Set Status"
Pressing this button allows the user to designate switch settings of the printer.
- 3) "Save Status"
Pressing this button saves the current memory switch settings to file.
- 4) "Load Status"
Pressing this button loads and displays the previously-saved memory switch settings file.
- 5) "Initialize Status"
Pressing this button resets the memory switch settings.

- 6) Code
The user may select and set the code page.

page



Note

Supported Model for "UniCode Encoding"
SRP-380/382/383, SRP-Q300/Q302

- 7) Cutter Depth Adjustment
You can set the paper width which is not cut when using a partial cut operation.



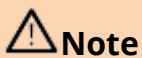
Note

Supported Model
SRP-380/382/383, SRP-E300/E302, SRP-Q300/Q302/Q200,
SRP-QE300/QE302, SRP-S300, SRP-S200

Unified POS Utility

- 8) 90 Degree Rotation Mode
Texts prints with 90 degree rotation. (eg: N -> Z)
- 9) Back-Feeding Mode
Reverse feeds the paper to the specific position before the start of printing.
- 10) Automatic feed in idle mode
Feeds the paper at every specified time interval when the printer is in the sleep mode.
- 11) Black Mark cut position
Cut after feeding the paper to the default cutting position or black-mark position.

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Printer Setting' tab selected. The '90 Degree Rotation Mode (Ex: N->Z)' section is highlighted with a red box. This section contains three sub-sections: 'Back-Feeding Mode' with 'Disable' selected, 'Automatic feed in idle mode' with 'Disable' selected, and 'Black Mark cut position' set to 'Normal Position'. Other settings visible include 'Printer Model: SRP-S300', 'Firmware Version: V00.30 STB 060116', 'Emulation: Emulation 1 [Default]', 'Codepage: PC437 (USA: Standard Europe)', 'Single byte font selection: Font A (12x24)', 'Power Save Mode: Enable', and 'Cutter Depth Adjustment: Default Setting'.



Note

Supported Model
SRP-S300L/S300T/S320/S3000/S200

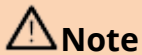
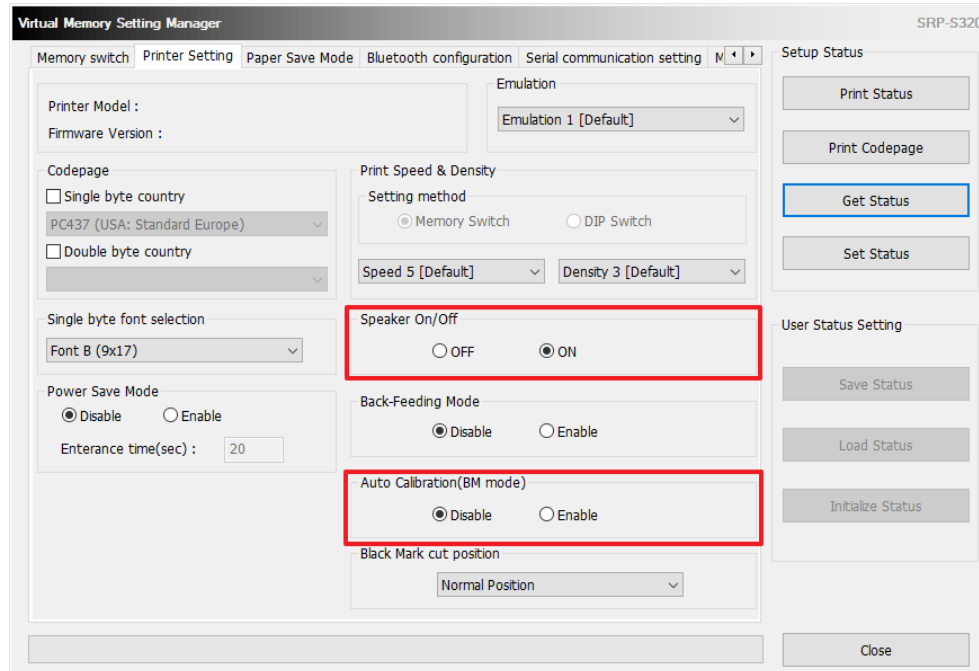
In case of SRP-S320/S3000, 90 Degree Rotation Mode is not supported.

12) Speaker On/Off

Turns the printer's built-in speaker on or off

13) Auto Calibration(BM mode)

When feeds the paper, automatic detection of black marks.




Note

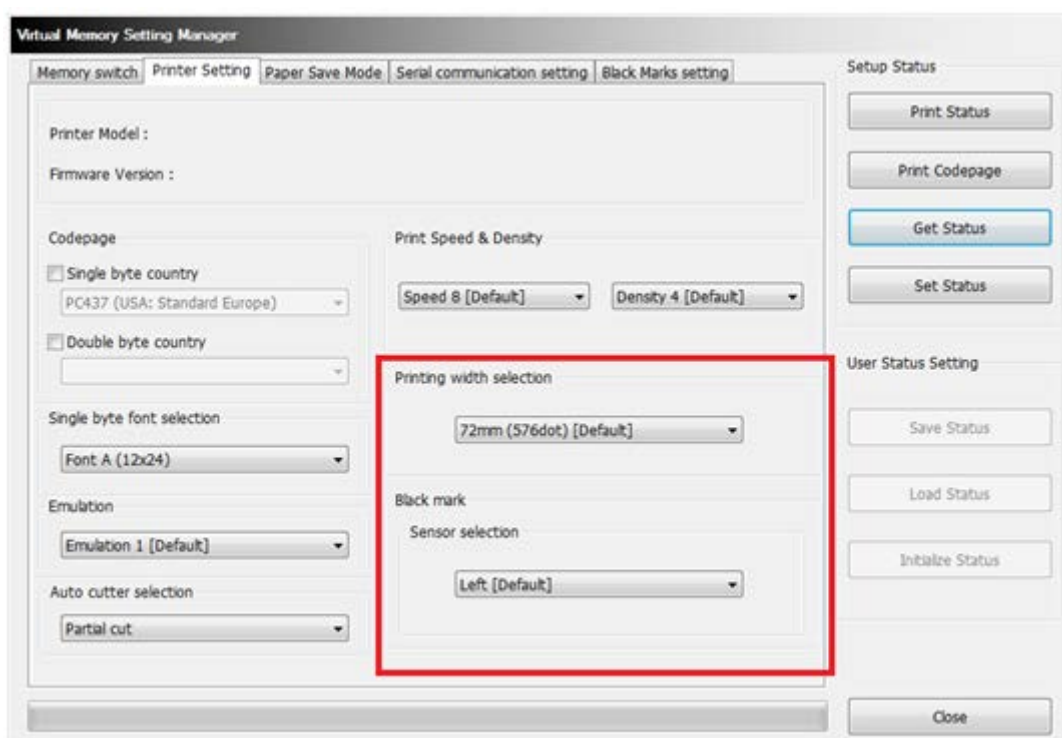
Supported Model
SRP-S320/S3000/S200


In case of SRP-S3000, only can be set Speaker On/Off

- 14) Printing width selection
Selection for printing width.

 Note	<p>The following widths can be selected.</p> <p>72mm(576 dot, Default width)</p> <p>54mm(432 dot)</p> <p>48mm(384 dot)</p> <p>12mm(96 dot)</p>
---	--

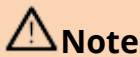
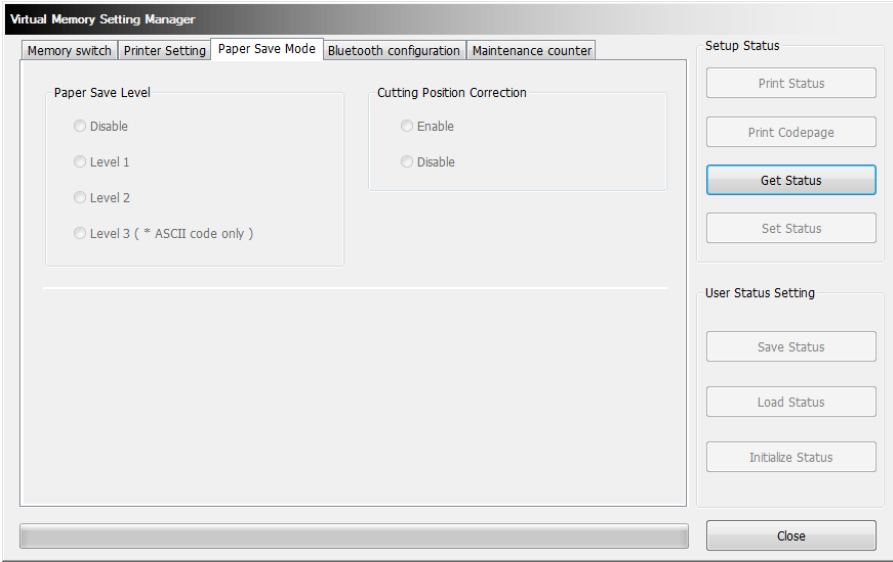
- 15) Black mark sensor selection
Select black mark sensor.
In front of paper outlet, the left sensor is set as default.



 Note	<p>Supported Model</p> <p>BK3-3, BK3-2</p> <p>It can be modified when Black Marks mode(DIP Switch 1-4 ON).</p>
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4-1-3 Paper Save Mode

You can select the levels of “Paper Save” and the feature of “Cutting Position Correction” in the “Paper Save Mode” section (tab).



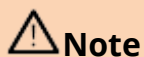
Note

Supported Model
BGT-100P/102P, SRP-330II/332II, SRP-340II/342II,
SRP-350III/352III, SRP-350plusIII/352plusIII,
SRP-380/382/383, SRP-E300/E302, SRP-F310II/F312II/F313II,
SRP-Q300/Q302/Q200, SRP-QE300/QE302,
SRP-S300/S320/S3000/S200,
BK3-3, BK3-2,
SRP-B300

4-1-4 Serial communication Setting

Serial Communication and Special Function setting can be enabled in Serial Communication Setting Tab.

The screenshot shows the 'Virtual Memory Setting Manager' dialog box with the 'Serial communication setting' tab selected. The 'Communication Setting' section includes dropdown menus for Baud Rate (115200), Data Btis (8), Parity (NONE), Flow Control (DTR/DSR), and Reception Error (Ignored). The 'Special Setting' section has a checked 'Special Setting' checkbox and a 'Special 1' dropdown menu. On the right, the 'Setup Status' section contains buttons for 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'. The 'User Status Setting' section at the bottom right has buttons for 'Save Status', 'Load Status', 'Initialize Status', and 'Close'.



Note

Supported Model

SRP-E300/E302, SRP-Q200, SRP-S320, BK3-3, BK3-2, SPP-100II, SRP-S320/S3000/S200, SRP-B300

Special function setting is supported only SPP-100II.

Reception Error function is supported with BK3-3, BK3-2

4-1-5 Bluetooth configuration

Bluetooth setting can be changed by Bluetooth Configuration Tab.

In case of Serial(Bluetooth) communication, it is not able to check Bluetooth configuration.

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Bluetooth configuration' tab selected. The window has a title bar and several tabs: 'Memory switch', 'Printer Setting', 'Paper Save Mode', and 'Bluetooth configuration'. The 'Bluetooth configuration' tab contains the following settings:

- Operating mode:** iOS
- Authentication & Encryption:** Radio buttons for 'Disable' and 'Enable' (selected).
- Connection mode:** A dropdown menu showing 'Mode 2'.
- PIN Code:** A text field containing '0000'.
- Device name:** A text field containing 'SRP-0000000000'.
- Bluetooth firmware version 4.0.0 or later:** A checkbox that is checked.
- Pairing mode:** A dropdown menu showing 'PIN Code'.
- Role mode:** A dropdown menu showing 'Classic'.
- MFI Information:** A section containing 'Firmware version : Ver. 4.1.0', 'Hardware version : Ver. 1.0', 'Protocol string : com.bicolon.protocol', and 'Serial number : 0000000000000000'.
- Auto Reconnection:** Radio buttons for 'Disable' and 'Enable' (selected), with 'Re-Count : 255' and 'Interval : 255'.

At the bottom of the tab are two buttons: 'Get Status' and 'Set Status'. To the right of the main settings area is a 'Setup Status' panel with buttons for 'Print Status', 'Print Codepage', 'Get Status' (highlighted), and 'Set Status'. Below this is a 'User Status Setting' panel with buttons for 'Save Status', 'Load Status', and 'Initialize Status'. At the very bottom right is a 'Close' button.

1) Authentication & Encryption

Sets or cancels Authentication & Encryption mode when connecting via Bluetooth

* If Authentication & Encryption mode is disabled, connection to a device can be done without a PIN Code.

2) Connection Mode

Sets Mode1, Mode2, or Mode3 when connecting via Bluetooth.

- Mode1: connection possible only with the first device with which connection succeeds
- Mode2: connection with all Bluetooth enabled devices possible via use of a PIN Code
- Mode3: connection possible only with the first device with which connection succeeds and searching or use of connected device possible

3) PIN Code

Changes the PIN Code required for Bluetooth connections. (maximum 12 characters long)

4) Device Name

Changes the device name produced when establishing a Bluetooth connection.
(maximum 12 characters long)

5) MFi Information

In case of iOS mode, MFi information will be displayed.

6) Auto Reconnection

Retry setting on Bluetooth can be enabled when Bluetooth connection is released.

7) Pairing mode

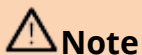
Changes the Bluetooth Pairing mode.

- PIN Code : When Bluetooth pairing, uses PIN Code exchange.
- SSP(Just works) : When Bluetooth pairing, uses SSP(Secure Simple Pairing) mechanism.
- SSP(Numeric Comparison) : When Bluetooth pairing, uses SSP(Secure Simple Pairing) which is added Numeric Comparison step.

8) Role mode

Changes the Bluetooth Role mode.

- Classic
- BLE
- Classic & BRD



Note

- Supported Model

SRP-350IIIOBE, SRP-350plusIII/352plusIII, SRP-380/382/383,
SRP-F310II/F312II/F313II, SRP-Q300/Q302/Q200, SRP-S300/S320

- Bluetooth Pairing mode, Bluetooth Role mode change Supported
Model

(Bluetooth module version IFJ-B5)

SRP-Q300/Q302,SRP-350plusIII/352plusIII, SRP-S300/S320

4-1-6 Maintenance counter

- 1) You can check the number of auto cut operation and amount of paper feed which have been performed by the printer.



Note

Supported Model

SRP-F310II/F312II/F313II, SRP-Q300/Q302, SRP-QE300/QE302
SRP-380/382/383

- 2) Some other models can manage resettable length of TPH used, length of roller used, number of auto cutter operations. Also you can check cumulative counters.



Note

Supported Model

SRP-S320/S200

4-1-7 Black Marks setting

Cutting position after black mark can be change by Black Marks setting Tab.

Virtual Memory Setting Manager BK3-3

Memory switch | Printer Setting | Paper Save Mode | Serial communication setting | **Black Marks setting**

Auto-load powering on

☐ Disable

☒ 1st Memory (mm)

Length between black marks: 177

Cutting position after black mark: 0

Get Status

Set Status

☐ 2nd Memory (mm)

Length between black marks: 0

Cutting position after black mark: 0

☐ 3rd Memory (mm)

Length between black marks: 0

Cutting position after black mark: 0

Setup Status

Print Status

Print Codepage

Get Status

Set Status

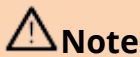
User Status Setting

Save Status

Load Status

Initialize Status

Close



Note

Supported Model

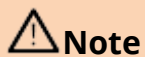
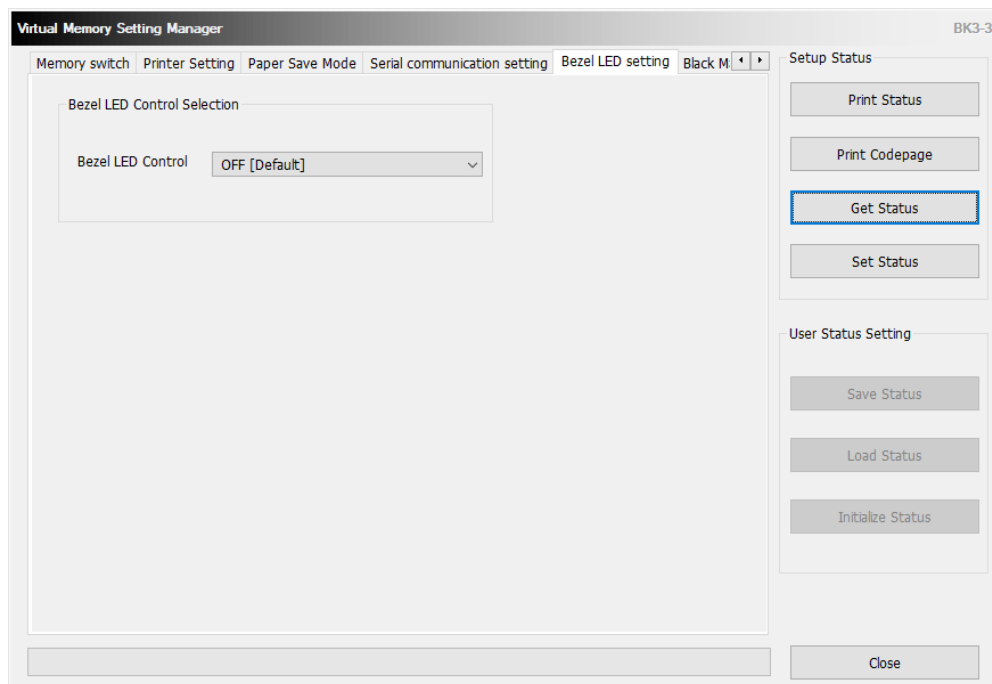
BK3-3,

BK3-2

It can be set when Black Marks mode(DIP Switch 1-4 ON).

4-1-8 Bezel LED setting

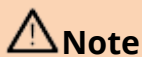
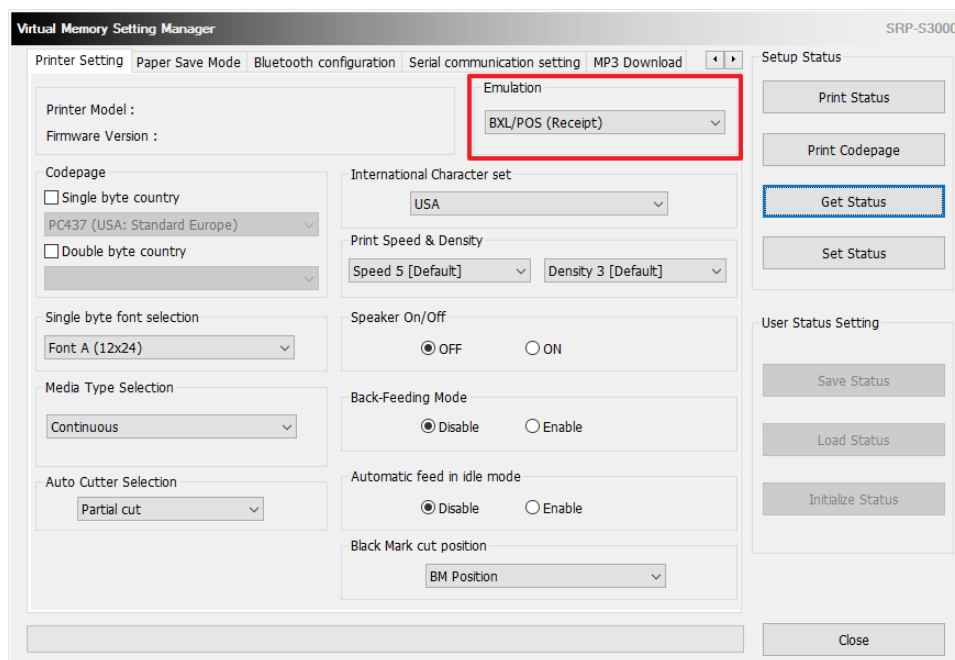
Bezel LED Control can be change by Bezel LED setting Tab.



Supported Model
BK3-3

4-1-9 Emulation

It can be change printer emulation.



Note

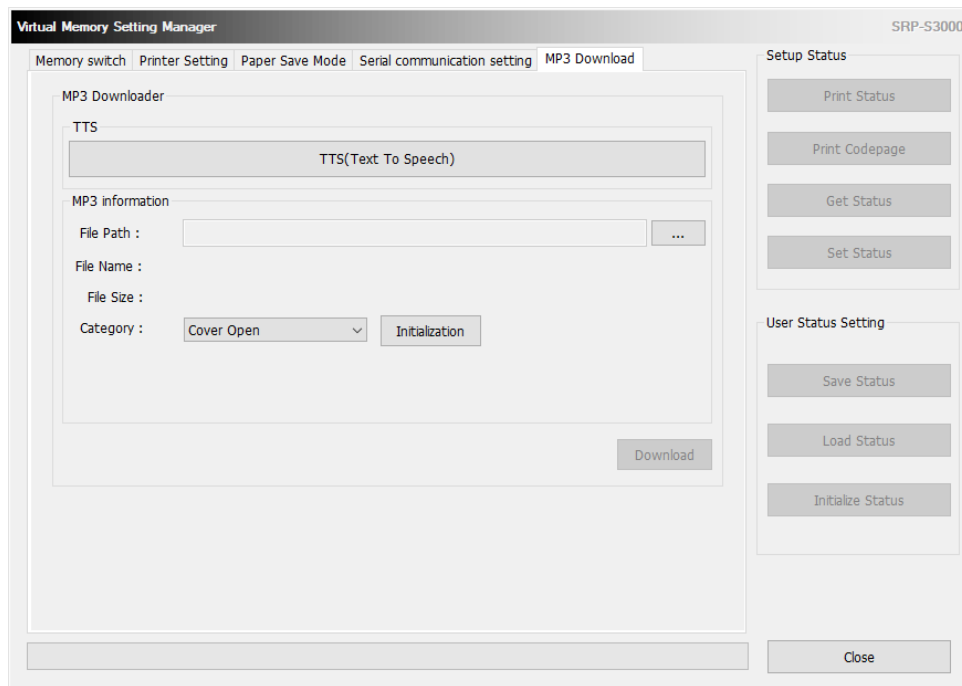
In case of SRP-S3000, when set emulation to SLCS (Label), The printer needs reboot.

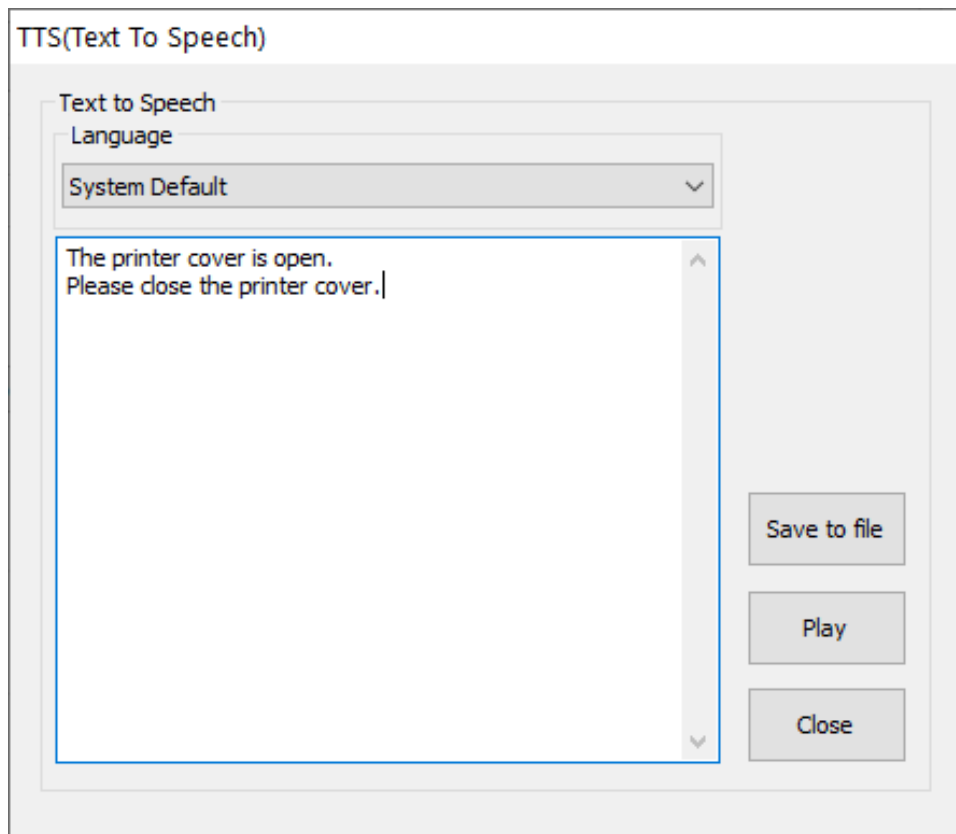
After the printer reboot, it is impossible to able to configure printer setting with Unified POS Utility.

To proceed with configure printer setting, please use Unified Label Utility-II

4-1-10 TTS

Click the “TTS(Text to Speech)” button in MP3 Download tab to convert text to speech.





- 1) Select a Language.
- 2) Enter your text.
- 3) Click to "Save to file" button to save to MP3 file.



Note

Supported OS
Windows 10 or later

Supported Models
SRP-S3000

To use a language other than System Default language, the language packs must be installed.

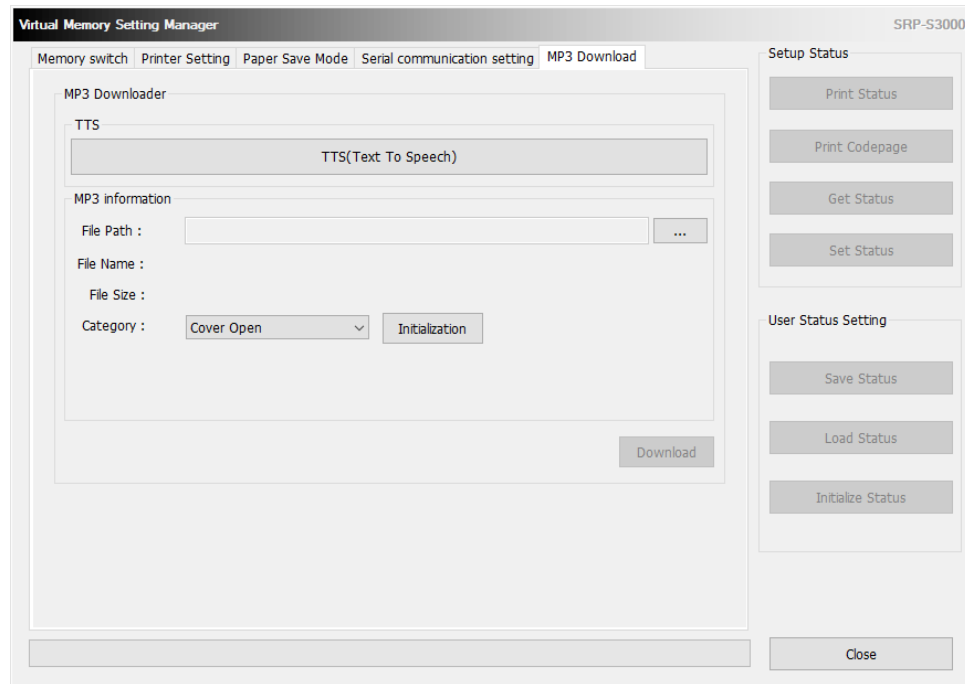
For instructions on how to install language packs, please refer to the link below.

[Language packs for Windows \(microsoft.com\)](https://www.microsoft.com/language/packs)

4-1-11 MP3 Download

Click the “MP3 Download” tab to download MP3 file.

After selecting a category, click the Initialization buttons to factory reset the MP3 file of the selected category.



- 1) Select MP3 file(*.mp3, *.MP3) which file size less than 2MB.
- 2) Select to save category.
- 3) Click to “Download” button to start download.



Note

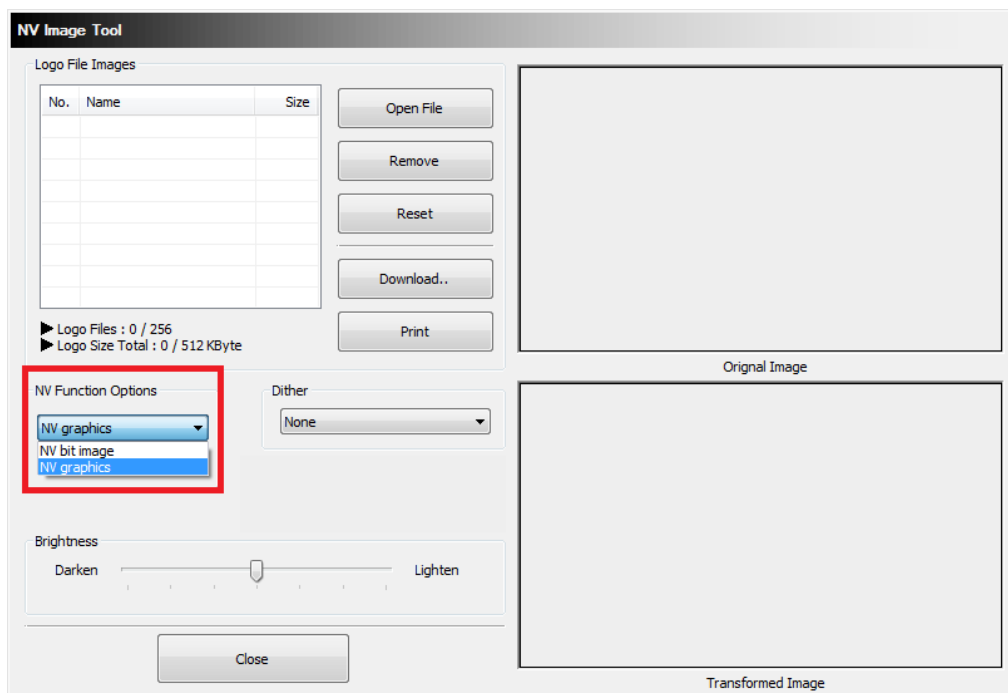
Supported Models
SRP-S3000

4-2 NV Image Tool

- This function helps you to download user-defined images to the flash memory in the printer and to recall and print those images with fast speed.
- If the Communication Setting is OK, click the “NV Image Tool” button.

4-2-1 NV Function Option

If the Printer is supported two-color mode, mono (NV bit image) or two-color (NV graphics) mode can be selected.



Note

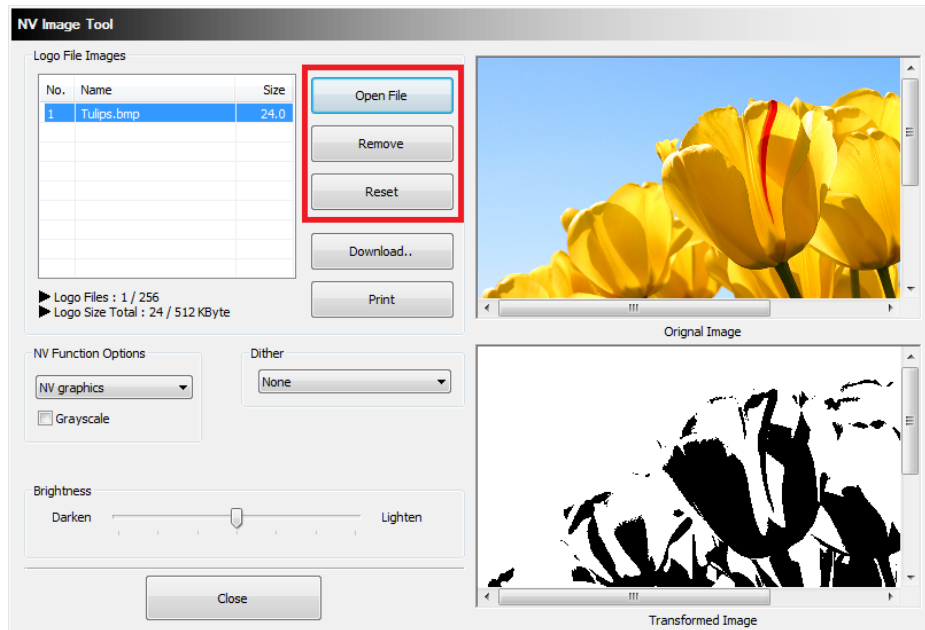
Please refer to below commands for each mode.

The command for NV bit image: FS p

The command for NV graphics: GS (L

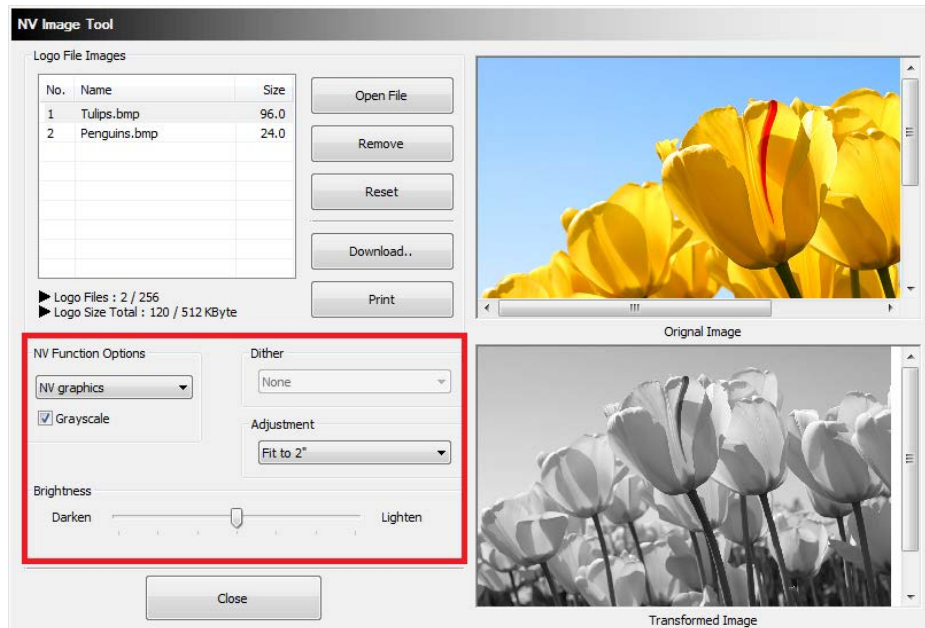
4-2-2 Image List Management

The images can be opened, added, deleted in the Image list box using three buttons in Bitmap selection. Only bmp type of image is available to download.



4-2-3 Correction image

You can get the correction image by selecting a 'Dither', 'Brightness', 'Grayscale' and 'Adjustment' option.



Note

Supported model by 'Adjustment'

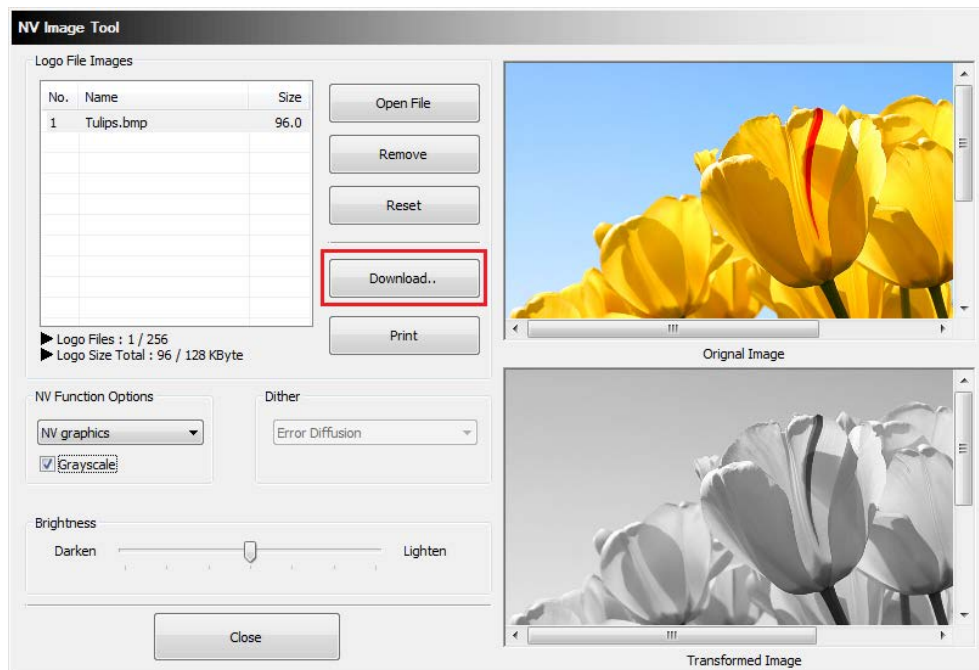
SRP-380/382/383, SRP-E300/E302, SRP-Q300/Q302, SRP-QE300/QE302, SRP-S300, SRP-S320, SRP-S3000, BK3-3, BK3-2, SRP-B300

Supported model by 'Grayscale'

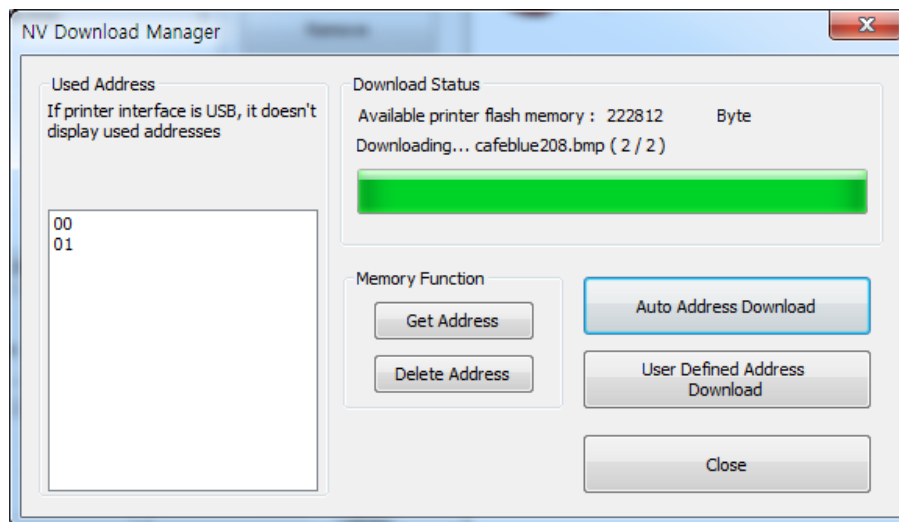
BGT-100P/102P, SRP-330II/332II, SRP-350plusIII/352plusIII, SRP-380/382/383, SRP-E300/E302, SRP-F310II/F312II/F313II, SRP-Q300/Q302, SRP-QE300/QE302, SRP-S300/S320/S3000/S200, SRP-B300

4-2-4 Download the image

- 1) When the "Download" button is clicked, pop-up window and the steps are different based on printer model.

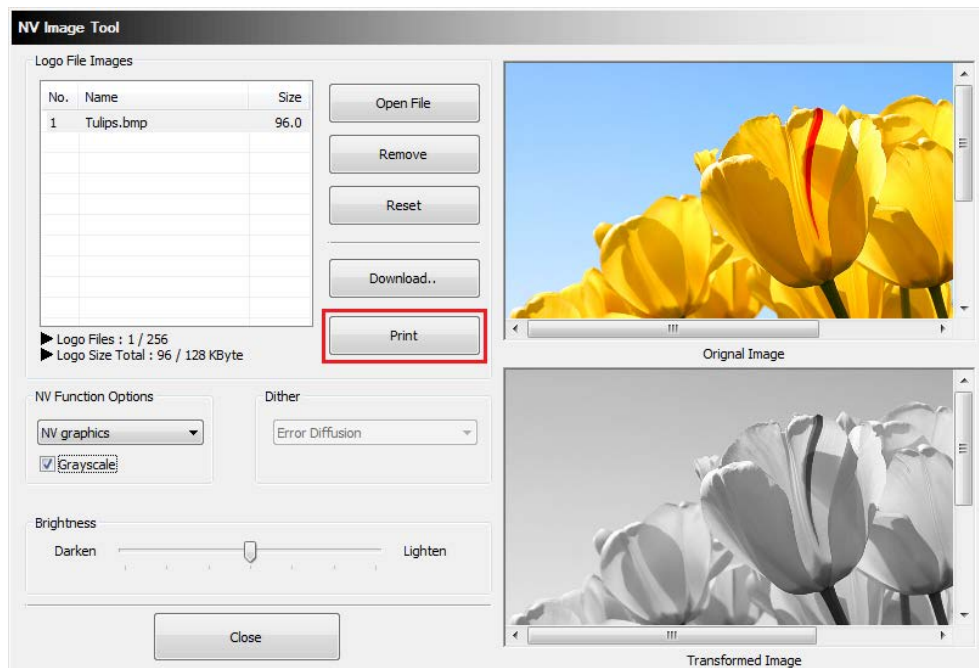


- 2) After all images stored on the corresponding printer are deleted, the image matching the selected resolution level is downloaded. The image is assigned a number according to the image list displayed on the screen.

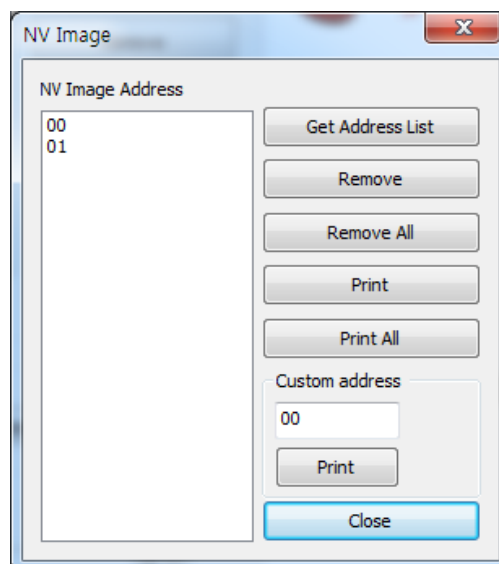


4-2-5 Print the image

- 1) The "Print" button in the main screen can be used on each printer model to print and test a stored image.



- 2) After selecting the image to print following the recall of the addresses of all currently stored images, press the "Print" button to print.



4-3 Using the Command Test Editor

- 1) If the Communication Setting is OK, click the "Command Test Editor" button.
- 2) If the "Command Test Editor" button is pressed, the following dialog box will appear. Using this Dialog, the user can write and edit the command and send to the printer. Each button of "Printing Option" and "Etc" group can insert commands to edit box. Also "Write Command" button can transfer these commands to the printer. To verify the result of sending the command can use the "Print Test String" button.

The screenshot shows the "Command Test Editor" dialog box. At the top, there's a title bar "Command Test Editor". Below it, a text input field labeled "Command (Hex Value, Ex: 1d 61 ff 0a)" is empty. To the right of this field is a "Write to the Printer" section with a "Write Command" button. Below the input field is a "Test Printing" section with "Print Test String" and "Self Test" buttons. At the bottom right of the main area is a "Clear command" button. A note below the input field says: "* After Editing the Command, Click the Command Write Button to send the Printer." Below this is the "Printing Option" section, which includes "Font" (Font A, Font B, Line Spacing, Select Codepage), "Alignment" (Left Alignment, Center Alignment, Right Alignment), and "Cut and Feeding" (Paper Cut, Feed). There are checkboxes for "Bold" and "Underline". Below the printing options is the "Status check" section with a "Status check" button. To the right is the "Cash Drawer" section with "Open Drawer 1 50ms(2pin)" and "Open Drawer 2 50ms(5pin)" buttons. At the bottom is the "File" section with "Save" and "Load" buttons, and a "Close" button on the far right.



Note

It is possible to be different the supported commands by the models. You can download the command manual from the BIXOLON website. (<http://www.bixolon.com>)

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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".

Revision history

[illegible]