



Software Manual

Unified POS Utility

THERMAL RECEIPT PRINTER

Ver. 2.05

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 XP SP3 (32bit)
Microsoft® Windows XP SP1 or later (64bit)
Microsoft Windows Server 2003 SP1 or later (32bit/64bit)
Microsoft Windows VISTA (32bit/64bit)
Microsoft Windows Server 2008 (32bit/64bit)
Microsoft Windows Server 2008R2 (64bit)
Microsoft Windows 7 (32bit/64bit)
Microsoft Windows 8 (32bit/64bit)
Microsoft Windows Server 2012 (64bit)
Microsoft Windows 10 (32bit/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/352II
SRP-350IIIBE
SRP-350plusIII/352plusIII
SRP-380/382/383
SRP-E300/E302
SRP-F310II/F312II/F313III
SRP-Q200
SRP-Q300/Q302
SRP-QE300QE302
SRP-S300
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.

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Memory switch' tab selected. The window is divided into three main sections. The top-left section, 'Virtual Memory Switch Status Display', contains a table with 8 rows, each labeled '[PIN X] Reserved' (where X is 1 to 8) and a corresponding dropdown menu. All dropdowns are currently set to 'Disable'. The bottom-left section has a 'Memor switch' dropdown set to '1', and '< Back' and 'Next >' buttons. The right section contains a 'Setup Status' area with buttons for 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'. Below this is a 'User Status Setting' area with buttons for 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is at the bottom right.

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

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Printer Setting' tab selected. The window has a tabbed interface with tabs for 'Memory switch', 'Printer Setting' (active), 'Paper Save Mode', 'Bluetooth configuration', and 'Maintenance counter'. The 'Printer Setting' tab is divided into several sections. The top section shows 'Printer Model' and 'Firmware Version'. The middle section has 'Codepage' settings with checkboxes for 'Single byte country' (selected) and 'Double byte country', and dropdowns for 'PC437 (USA: Standard Europe)' and 'Font A (12x24)'. The bottom-left section has 'Power Save Mode' with radio buttons for 'Disable' and 'Enable' (selected), and an 'Entrance time(sec)' field set to '20'. The bottom-right section has 'Print Speed & Density' with a 'Setting method' section containing radio buttons for 'Memory Switch' and 'DIP Switch' (selected), and dropdowns for 'Speed 4 [Default]' and 'Density 4 [Default]'. The right side of the window is identical to the previous screenshot, with 'Setup Status' and 'User Status Setting' buttons.

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.

The screenshot shows the 'Virtual Memory Setting Manager' dialog box. It has two tabs: 'Memory switch' and 'Printer Setting'. The 'Printer Setting' tab is active. The main area is titled 'Virtual Memory Switch Status Display' and contains a table with 8 rows, each representing a memory switch (PIN 1 to PIN 8). Each row has a 'Reserved' status and a dropdown menu for the switch status. The status for PIN 1 to PIN 6 is 'Disable', for PIN 7 is 'Enable', and for PIN 8 is 'Disable'. At the bottom of the main area, there is a 'Memor switch :' label, a dropdown menu showing '1', and '< Back' and 'Next >' buttons. On the right side, there are two sections: 'Setup Status' with buttons 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'; and 'User Status Setting' with buttons 'Save Status', 'Load Status', 'Initialize Status', and 'Close'.

Memory switch	Printer Setting
[PIN 1] Reserved	Disable
[PIN 2] Reserved	Disable
[PIN 3] Reserved	Disable
[PIN 4] Reserved	Disable
[PIN 5] Reserved	Disable
[PIN 6] Reserved	Disable
[PIN 7] Reserved	Enable
[PIN 8] Reserved	Disable

Memor switch : 1 < Back Next >

Setup Status

Print Status

Print Codepage

Get Status

Set Status

User Status Setting

Save Status

Load Status

Initialize Status

Close

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 page

The user may select and set the code 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-S300, SRP-Q300/Q302, SRP-QE300/QE302,
SRP-E300/E302, SRP-Q200

8) 90 Degree Rotation Mode

Texts prints with 90 degree rotation. (eg: N to Z)

9) Back-Feeding Mode

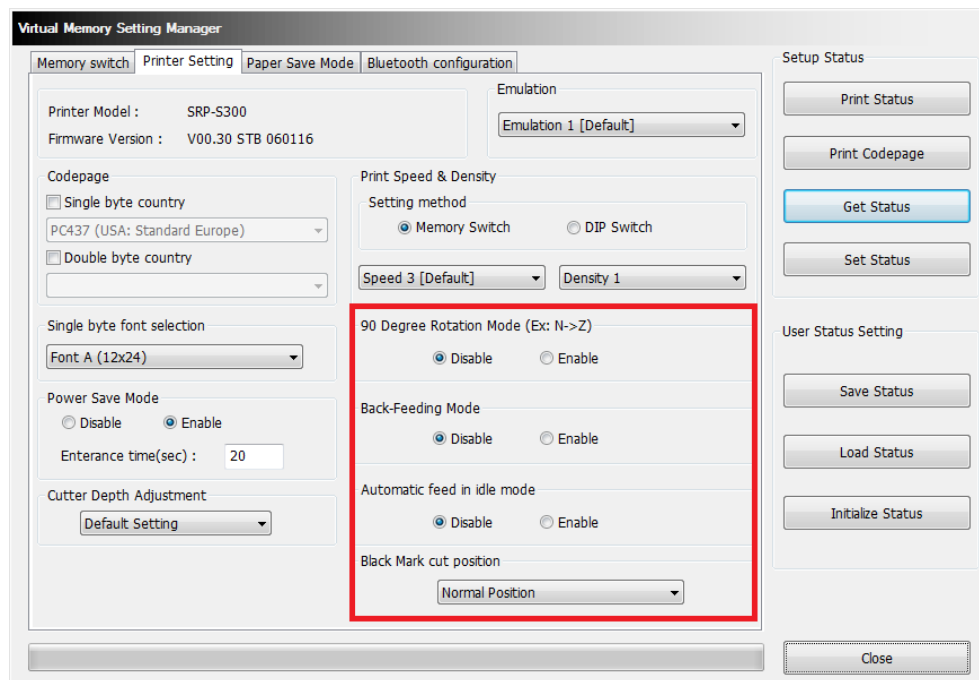
Reverse feeds the paper to the specific position before the start of printing.

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

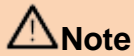
Cut after feeding the paper to the default cutting position or black-mark position.



Note

Supported Model
SRP-S300L, SRP-S300T

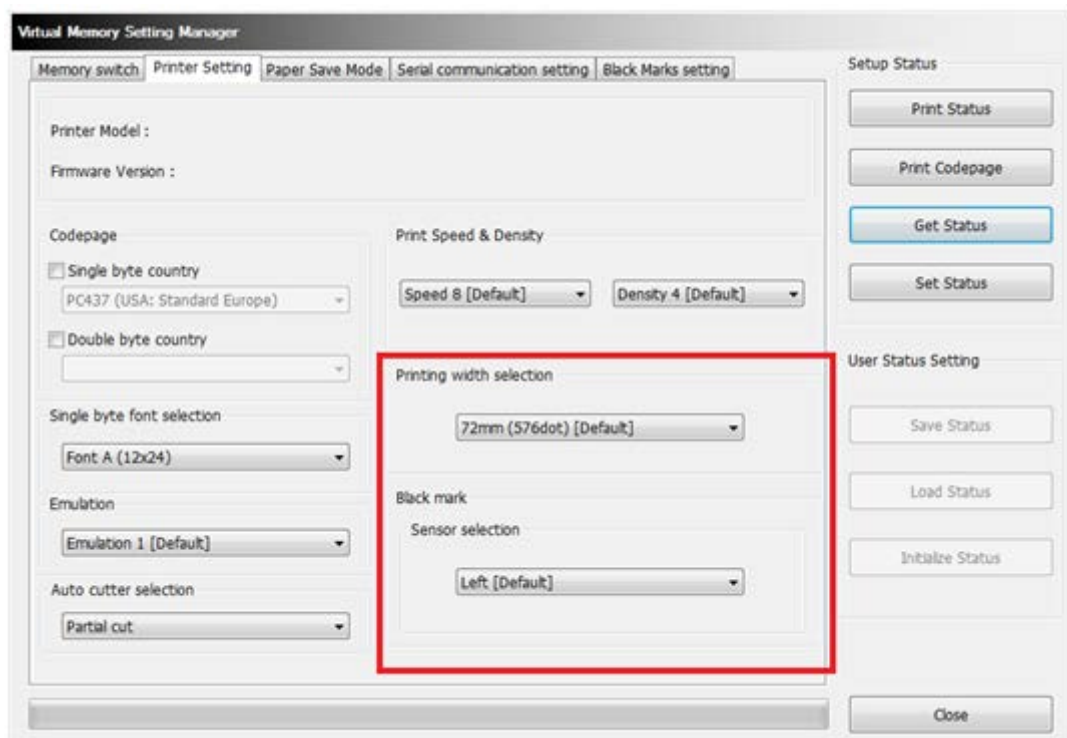
12) Printing width selection Selection for printing width.



Note

The following widths can be selected.
72mm(576 dot, Default width)
54mm(432 dot)
48mm(384 dot)
12mm(96 dot)

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



Note

Supported Model
BK3-3, BK3-2

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

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).

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Paper Save Mode' tab selected. The interface includes a tabbed menu at the top with options: 'Memory switch', 'Printer Setting', 'Paper Save Mode', 'Bluetooth configuration', and 'Maintenance counter'. The main area is divided into two sections: 'Paper Save Level' on the left and 'Cutting Position Correction' on the right. The 'Paper Save Level' section has four radio button options: 'Disable', 'Level 1', 'Level 2', and 'Level 3 (* ASCII code only)'. The 'Cutting Position Correction' section has two radio button options: 'Enable' and 'Disable'. On the right side of the window, there is a 'Setup Status' section with buttons for 'Print Status', 'Print Codepage', 'Get Status' (highlighted with a blue border), and 'Set Status'. Below this is a 'User Status Setting' section with buttons for 'Save Status', 'Load Status', and 'Initialize Status'. At the bottom right, there is a 'Close' button.



Note

Supported Model

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

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), 'Set Status', and 'Close'. Below this is the 'User Status Setting' section with 'Save Status', 'Load Status', and 'Initialize Status' buttons.



Supported Model(Special function setting is supported only SPP-100II.)
SPP-100II, SRP-E300/E302, BK3-3, BK3-2, SRP-Q200

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 is divided into several sections:

- Bluetooth configuration:**
 - Operating mode: iOS
 - Authentication & Encryption: ☐ Disable, ☒ Enable
 - Connection mode: Mode 2 (dropdown)
 - PIN Code: 0000
 - Device name: SRP-000000000
 - Bluetooth firmware version 4.0.0 or later
 - Pairing mode: PIN Code (dropdown)
 - Role mode: Classic (dropdown)
 - Buttons: Get Status, Set Status
- MFi Information:**
 - Firmware version: Ver. 4.1.0
 - Hardware version: Ver. 1.0
 - Protocol string: com.bixolon.protocol
 - Serial number: 0000000000000000
- Auto Reconnection:**
 - ☐ Disable, ☒ Enable
 - Re-Count: 255
 - Interval: 255
- Setup Status:**
 - Buttons: Print Status, Print Codepage, Get Status, Set Status
- User Status Setting:**
 - Buttons: Save Status, Load Status, Initialize Status
- Close:** Button at the bottom right.

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

Bluetooth Pairing mode, Bluetooth Role mode change function

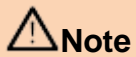
Supported Model(Bluetooth firmware version 4.0.0 or later)

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

4-1-6 Maintenance counter

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

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Maintenance counter' tab selected. The window title bar includes 'Virtual Memory Setting Manager' and 'SRP-380'. The tab bar at the top lists: 'Memory switch', 'Printer Setting', 'Paper Save Mode', 'Bluetooth configuration', and 'Maintenance counter'. The main area displays two fields: 'Number of autocutter operations : 143 Times' and 'Length of paper feed : 0.024 Km'. On the right side, there are two sections of buttons. The 'Setup Status' section contains 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'. The 'User Status Setting' section contains 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is located at the bottom right of the window.



Note

Supported Model

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

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

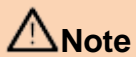
User Status Setting

Save Status

Load Status

Initialize Status

Close



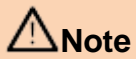
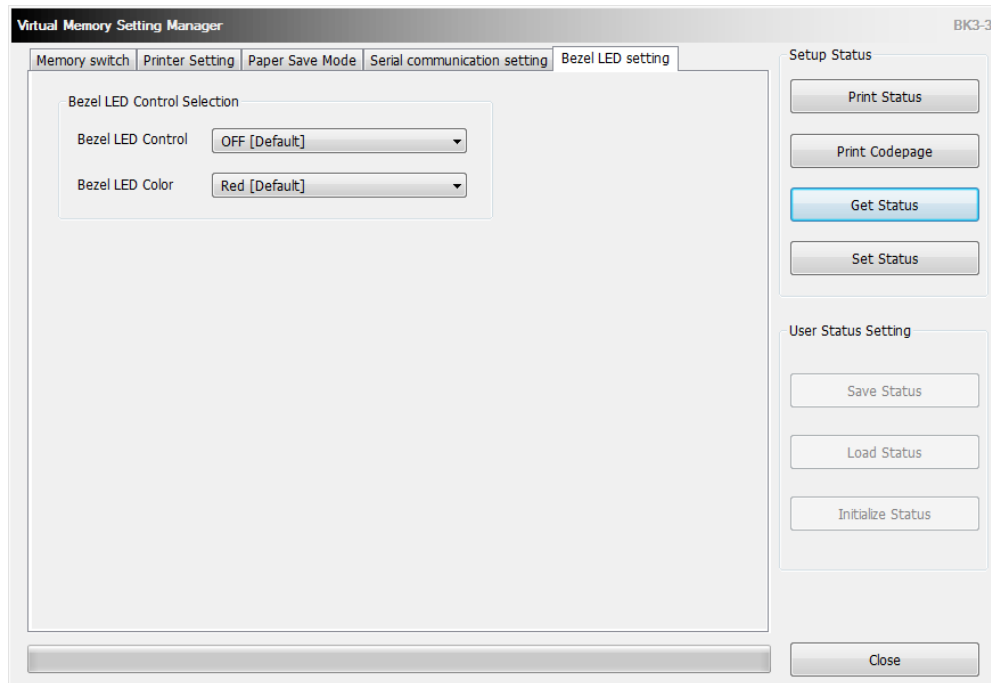
Note

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.



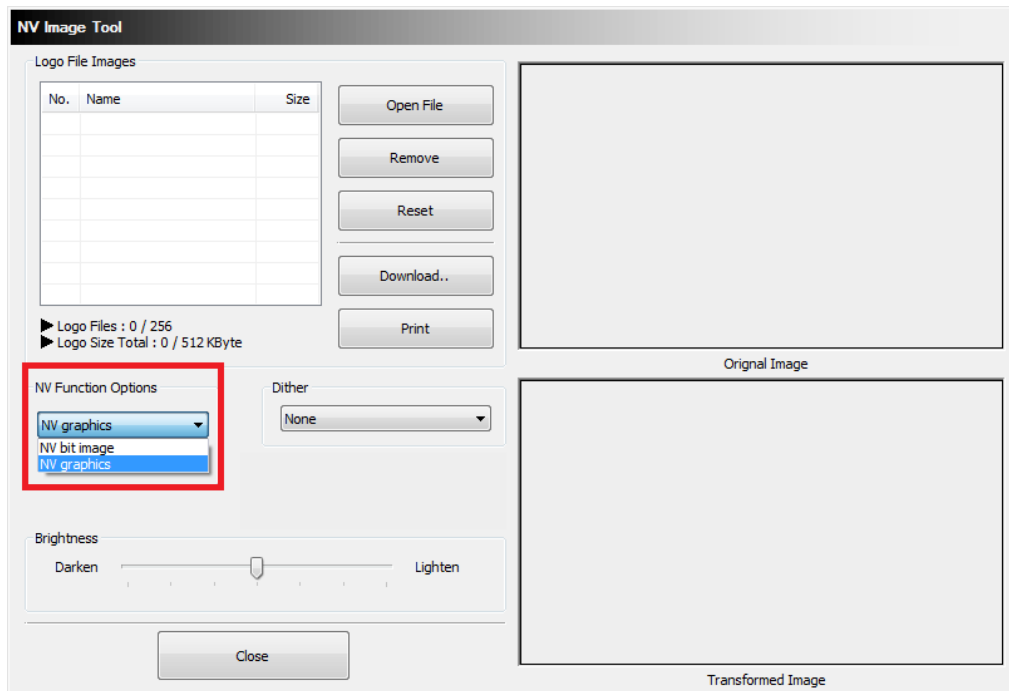
Supported Model
BK3-3

4-2 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

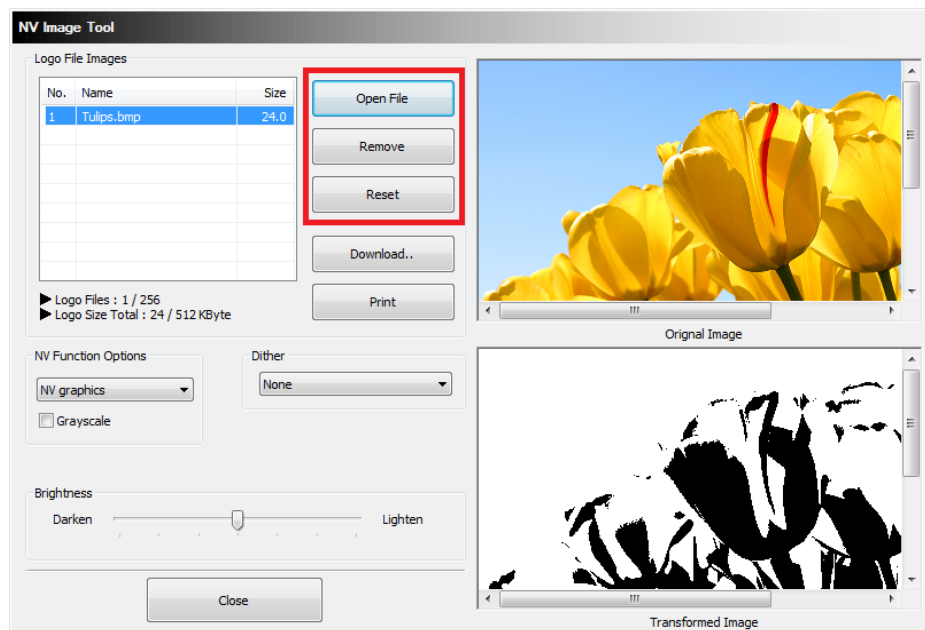
Please refer to below commands for each mode.

The command for NV bit image: FS p

The command for NV graphics: GS (L

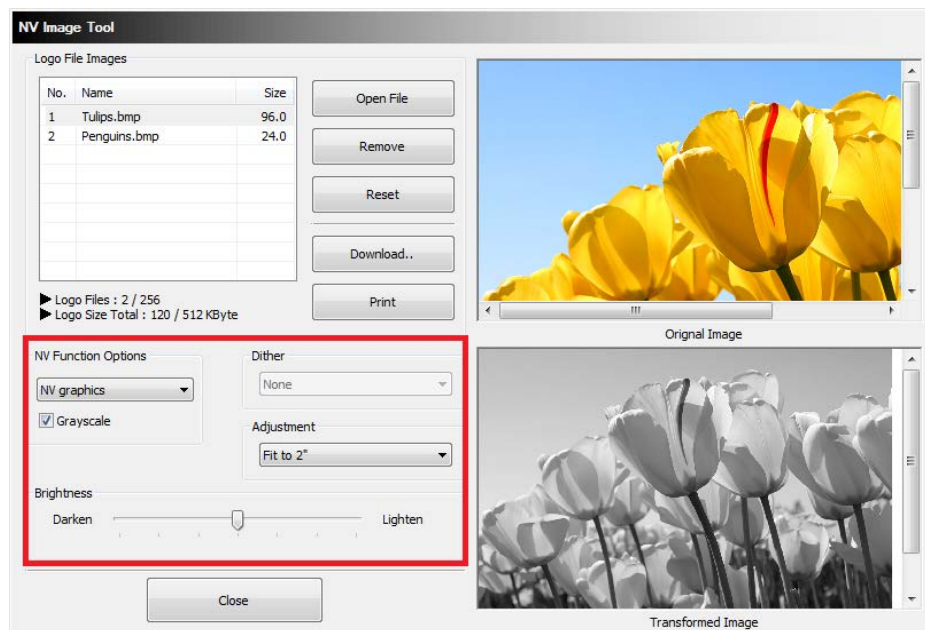
4-2-2 Image List Management

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.



Supported model by 'Adjustment'

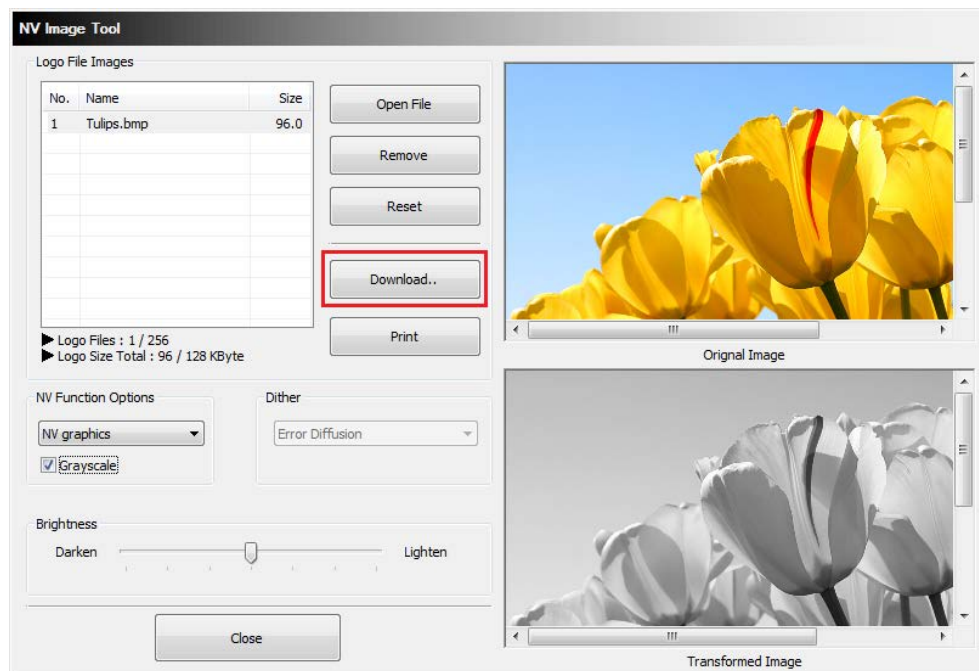
SRP-380/382/383, SRP-S300, SRP-Q300/Q302, SRP-QE300/QE302, SRP-E300/E302, BK3-3, BK3-2

Supported model by 'Grayscale'

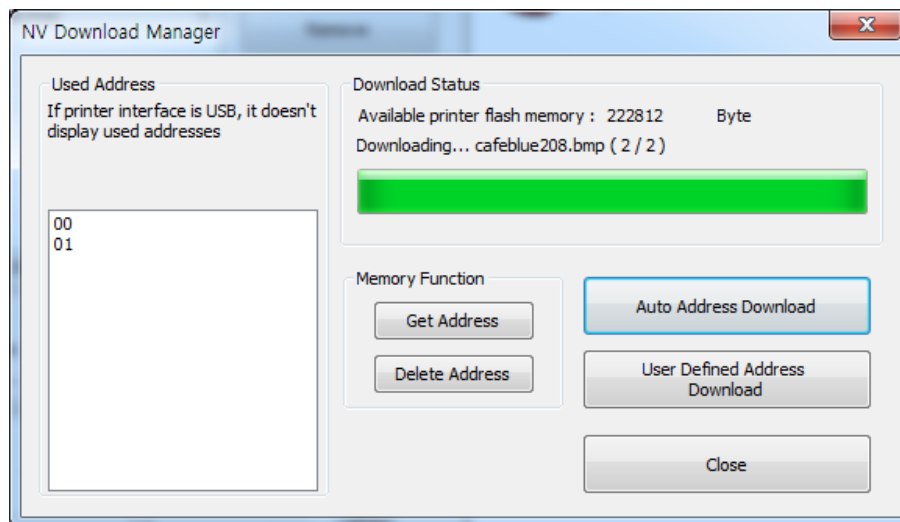
SRP-350plusIII/352plusIII, SRP-F310II/F312II/F313II, SRP-380/382/383, BGT-100P/102P, SRP-330II/332II, SRP-S300, SRP-Q300/Q302, SRP-QE300/QE302, SRP-E300/E302

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.

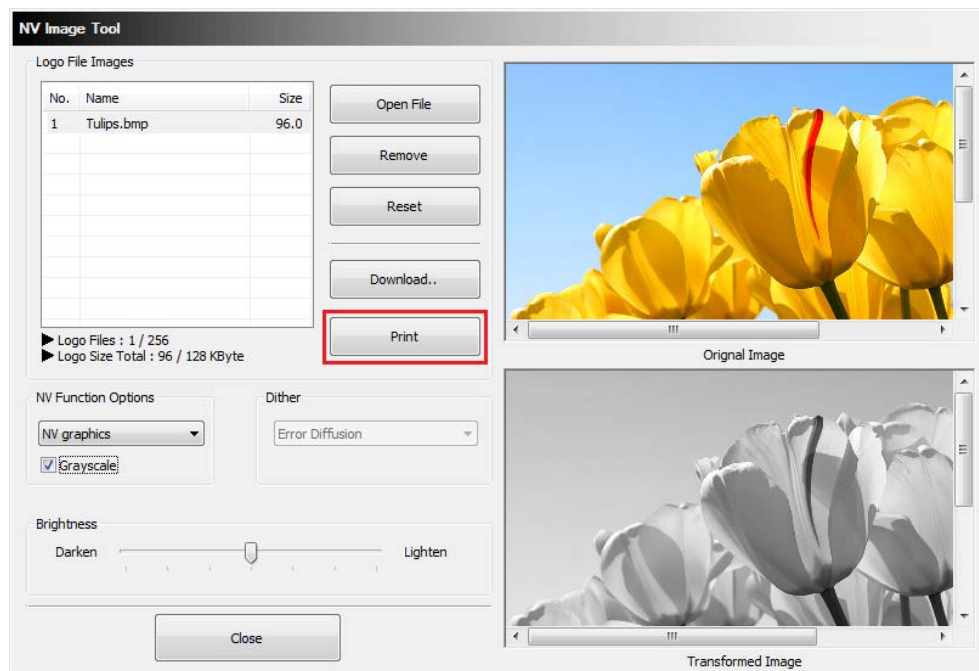


- 2) After all images stored on the corresponding printer are deleted, the image matching the selected resolution level is downloaded. The image is assigned a number according to the image list displayed on the screen.

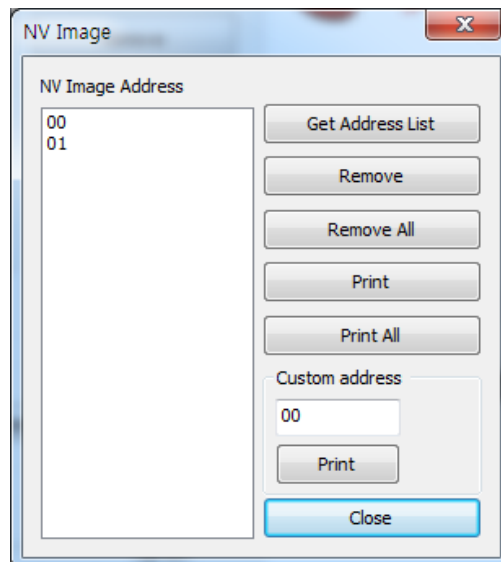


4-2-5 Print the image

- 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. It has a title bar with the text "Command Test Editor". Inside, there is a text area for "Command (Hex Value, Ex: 1d 61 ff 0a)". To the right of the text area are buttons for "Write to the Printer" (containing "Write Command"), "Test Printing" (containing "Print Test String" and "Self Test"), and "Clear command". Below the text area is a note: "* After Editing the Command, Click the Command Write Button to send the Printer." Below this is a "Printing Option" section with buttons for "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 also checkboxes for "Bold" and "Underline". Below the "Printing Option" section are buttons for "Status check", "Cash Drawer" (Open Drawer 1 50ms(2pin), Open Drawer 2 50ms(5pin)), and "File" (Save, Load). A "Close" button is at the bottom 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]