

POS Thermal Receipt Printer

A11 Prime



Unified POS Utility

Table of Contents

1. Foreword.....	3
2. Operating System (OS) Environment	3
3. Usage Preparation.....	4
4. Unified POS Utility Usage	5
4-1 VMSM.....	5
4-1-1 Getting the Memory Switch Status of the Printer	5
4-1-2 Setting the memory switch status of the Printer.....	6
4-1-3 Serial communication Setting	7
4-1-4 Bluetooth configuration.....	8
4-2 NV Image Tool.....	9
4-2-1 Image List Management.....	9
4-2-2 Correction image	9
4-2-3 Download the image.....	10
4-2-4 Print the image.....	11
4-3 Using the Command Test Editor	12

1. Foreword

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.

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2. Operating System (OS) Environment

The following operating systems(OS) are supported for usage.

- Microsoft Windows XP SP3 (32bit, 64bit)
- Microsoft Windows Server 2003 SP1 (32bit)
- Microsoft Windows Server 2003 (64bit)
- Microsoft Windows VISTA (32bit, 64bit)
- Microsoft Windows Server 2008 (32bit, 64bit)
- Microsoft Windows Server 2008 R2 (64bit)
- Microsoft Windows 7 (32bit, 64bit)
- Microsoft Windows 8 (32bit, 64bit)
- Microsoft Windows Server 2012 (64bit)
- Microsoft Windows 10 (32bit, 64bit)

3. Usage Preparation

- 1) Printer and PC Connection.
Connect the printer and PC via the interface cable.
- 2) Unified POS Utility Program Execution.
- 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”.
If the connection fails, the following error message appears. “Cannot open port”.

The screenshot displays the 'Unified POS Utility' window. It features a red title bar at the top. The main area is divided into several sections. On the left, under 'Interface Type', there are radio buttons for SERIAL (selected), PARALLEL, USB, LAN, WLAN, and BLUETOOTH. Below this is the 'Communication Setting' section, which includes dropdown menus for Port (COM1), Baud Rate (9600), Data Bits (8), Parity (None), Stop Bits (1), and Flow Control (Hardware). There are also input fields for IP (192 . 168 . 0 . 1) and Port (9100). At the bottom left are 'Connect' and 'Disconnect' buttons. On the right side, there are three stacked buttons: 'VMSM (Virtual Memory Setting Manager)', 'NV Image Tool (Non-Volatile Image Tool)', and 'Command Test Editor'. At the bottom right is an 'Exit' button. A copyright notice 'Copyright (C) POSBANK Co., Ltd. All rights reserved.' is visible at the very bottom.

Unified POS Utility

Interface Type

☒ SERIAL ☐ PARALLEL ☐ USB
☐ LAN ☐ WLAN ☐ BLUETOOTH

Communication Setting

Port: COM1
Baud Rate: 9600
Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control: Hardware

IP: 192 . 168 . 0 . 1
Port: 9100

Connect Disconnect

VMSM
(Virtual Memory Setting Manager)

NV Image Tool
(Non-Volatile Image Tool)

Command Test Editor

Exit

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4. Unified POS Utility Usage

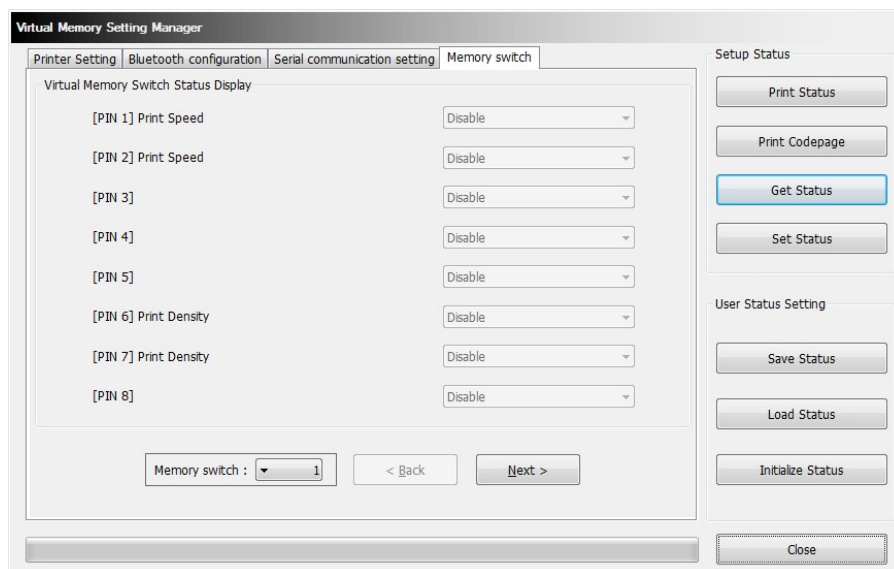
4-1 VMSM

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

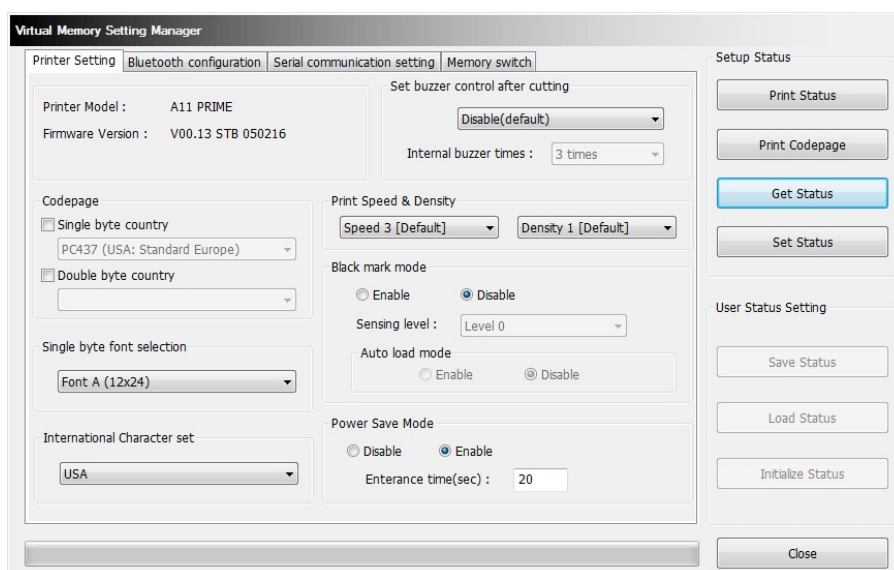
If the Communication Setting is OK, click the “VMSM” button.

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.

The screenshot shows the 'Virtual Memory Setting Manager' dialog box with the 'Memory switch' tab selected. The 'Virtual Memory Switch Status Display' section contains eight settings, all set to 'Disable': [PIN 1] Print Speed, [PIN 2] Print Speed, [PIN 3], [PIN 4], [PIN 5], [PIN 6] Print Density, [PIN 7] Print Density, and [PIN 8]. Below these is a 'Memory switch' dropdown set to '1', with '< Back' and 'Next >' buttons. On the right, the 'Setup Status' section has buttons for 'Print Status', 'Print Codepage', 'Get Status', and 'Set Status'. The 'User Status Setting' section has buttons for 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is at the bottom right.

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.

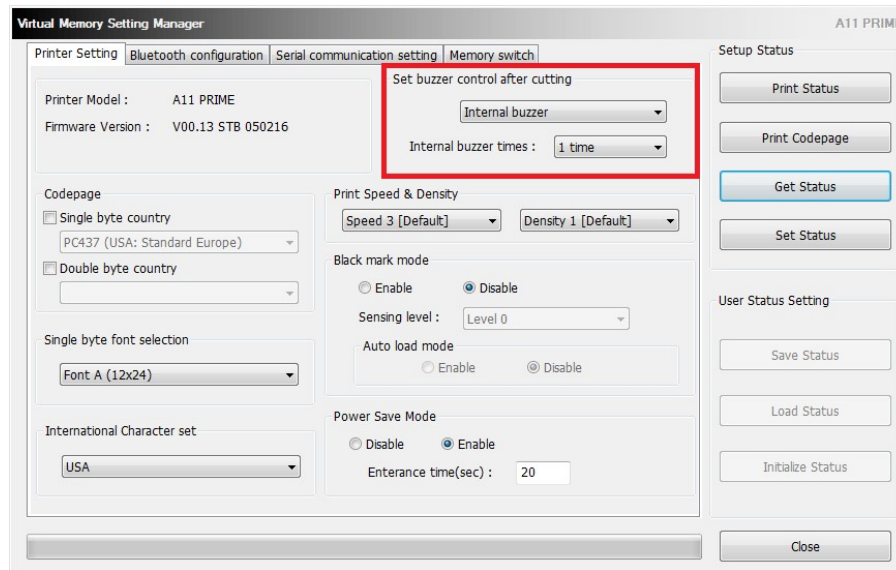
6) Code page

The user may select and set the code page.

This screenshot shows the same 'Virtual Memory Setting Manager' dialog box, but with the 'Codepage' section highlighted by a red rectangle. The 'Printer Model' is 'A11 PRIME' and the 'Firmware Version' is 'V00.13 STB 050216'. The 'Codepage' section has two options: 'Single byte country' (selected) with a dropdown showing 'PC437 (USA: Standard Europe)', and 'Double byte country' with an empty dropdown. Other settings include 'Set buzzer control after cutting' (Disable(default)), 'Internal buzzer times' (3 times), 'Print Speed & Density' (Speed 3 [Default], Density 1 [Default]), 'Black mark mode' (Disable selected), 'Sensing level' (Level 0), 'Auto load mode' (Disable selected), 'Power Save Mode' (Enable selected), and 'Entrance time(sec)' (20). The 'Get Status' button in the 'Setup Status' section is highlighted in blue.

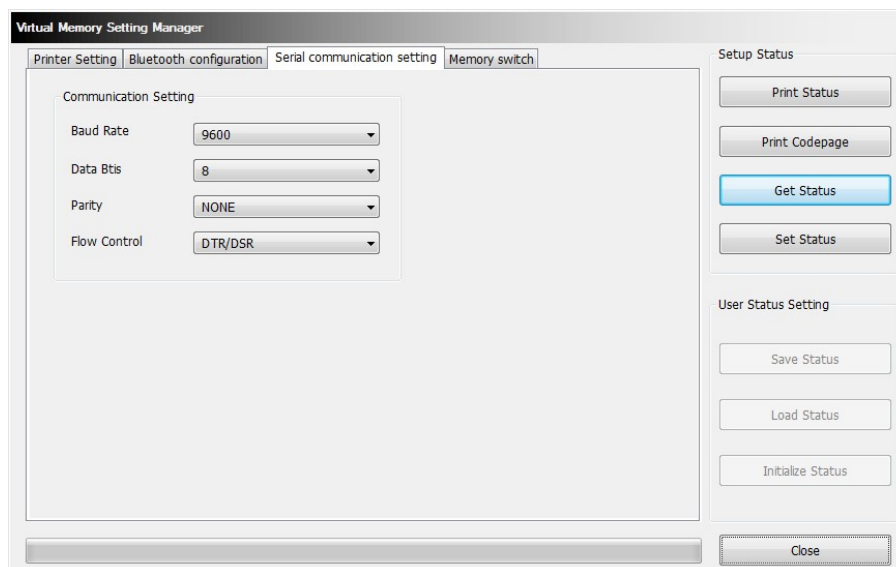
7) Buzzer control

The internal or external buzzer making a sound after paper cutting can be set.



4-1-3 Serial communication Setting

Serial Communication setting can be enabled in Serial Communication Setting Tab.



4-1-4 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 four tabs: 'Printer Setting', 'Bluetooth configuration', 'Serial communication setting', and 'Memory switch'. The 'Bluetooth configuration' tab contains the following fields and controls:

- Operating mode:** A text field with the value 'Normal'.
- Authentication & Encryption:** Two radio buttons, 'Disable' and 'Enable'. 'Enable' is selected.
- Connection mode:** A dropdown menu showing 'Mode 2'.
- PIN Code:** A text field with the value '0000'.
- Device name:** A text field with the value 'BLUETOOTH PRINTER'.
- Buttons:** 'Get Status' and 'Set Status' buttons are located below the PIN Code and Device name fields respectively.

On the right side of the window, there are two sections of buttons:

- Setup Status:** Contains 'Print Status', 'Print Codepage', 'Get Status', and 'Set Status' buttons.
- User Status Setting:** Contains 'Save Status', 'Load Status', and 'Initialize Status' buttons.

A 'Close' button is located at the bottom right of the window.

■ 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.

■ 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

■ PIN Code

Changes the PIN Code required for Bluetooth connections.

(maximum 12 characters long)

■ Device Name

Changes the device name produced when establishing a Bluetooth connection.

(maximum 12 characters long)

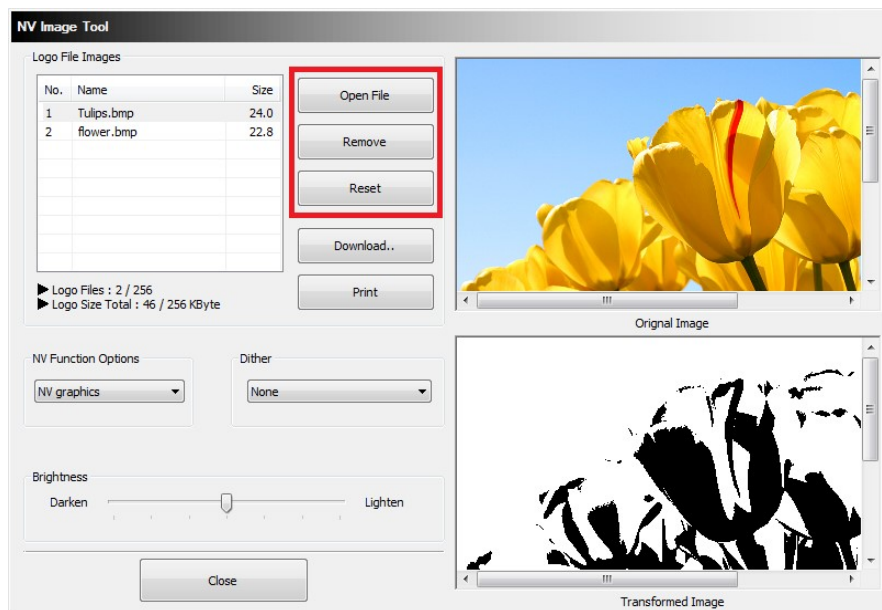
4-2 NV Image Tool

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.

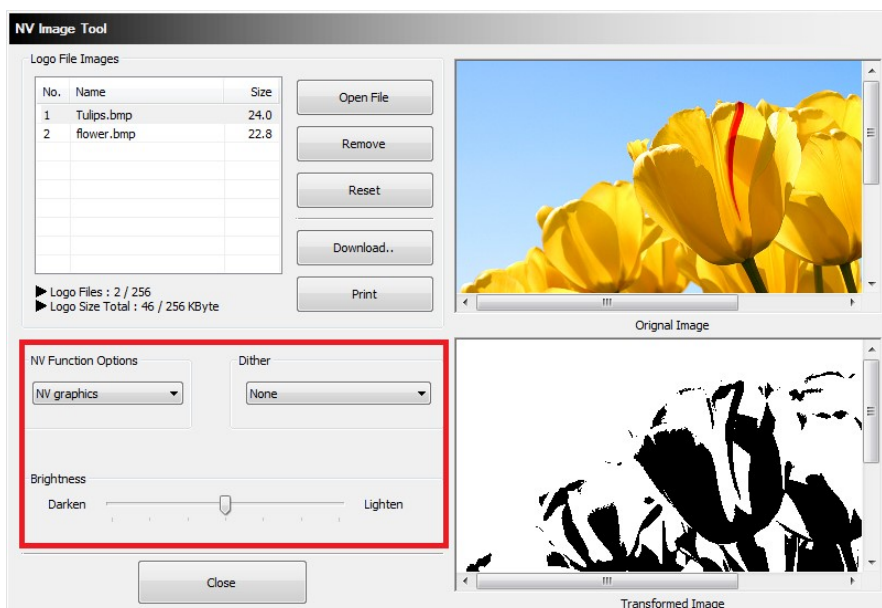
4-2-1 Image List Management

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.



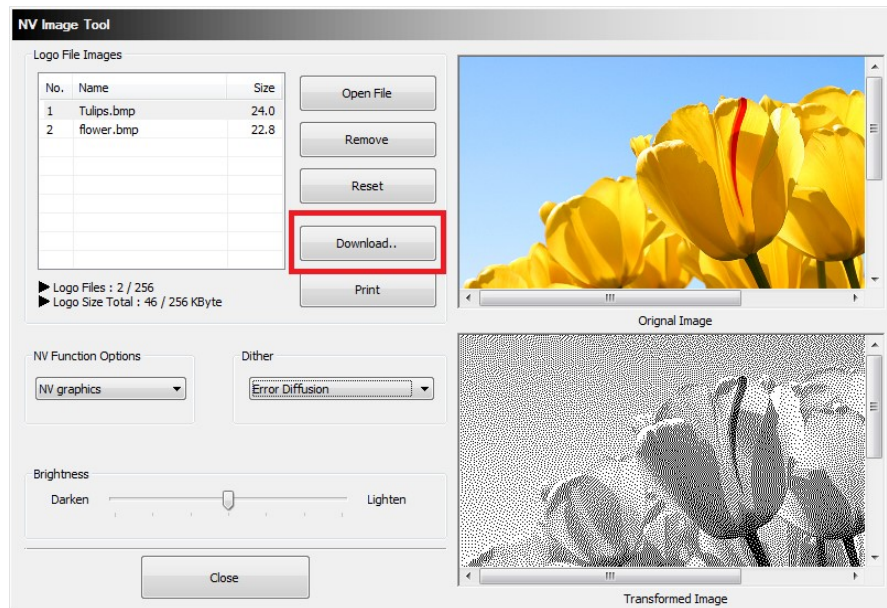
4-2-2 Correction image

You can get the correction image by selecting a ‘Dither’ and ‘Brightness’ option.

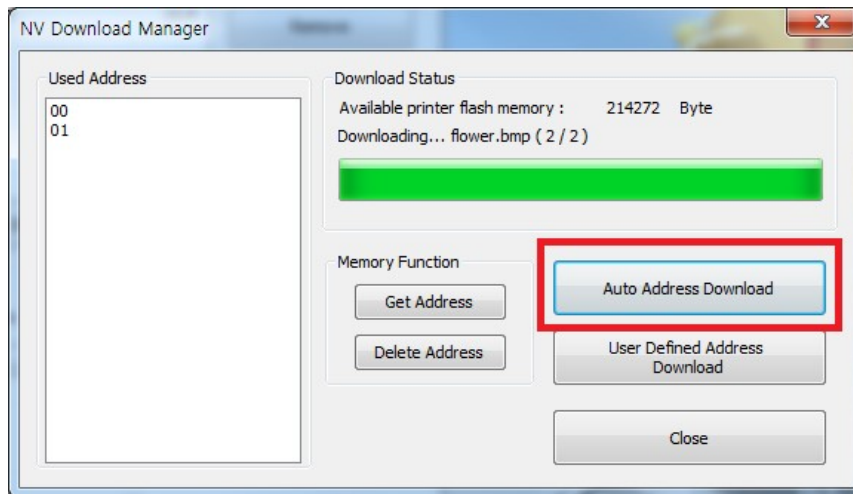


4-2-3 Download the image

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

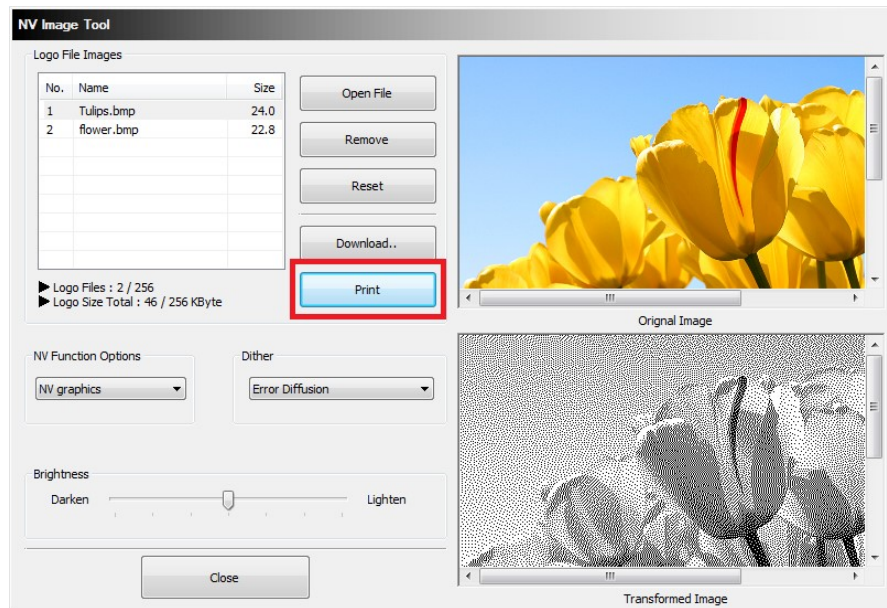


- 2) After all images stored on the corresponding printer are deleted, the image matching the selected resolution level is downloaded. The image is assigned a number according to the image list displayed on the screen.

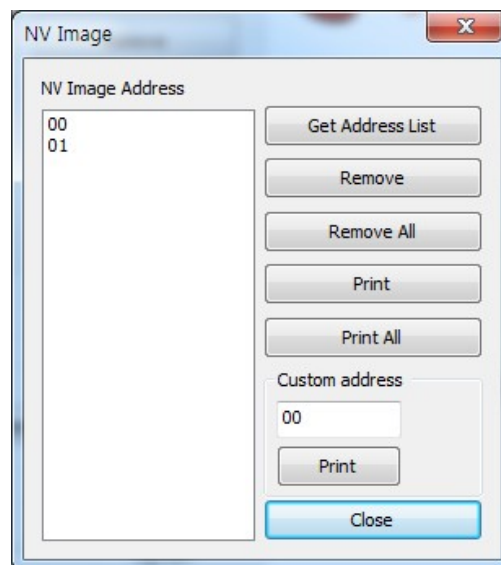


4-2-4 Print the image

- 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” 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 with the text "Command Test Editor". Below it, a text input field is labeled "Command (Hex Value, Ex: 1d 61 ff 0a)". To the right of this field is a "Write to the Printer" section containing a "Write Command" button. Below the input field is a "Test Printing" section with "Print Test String" and "Self Test" buttons. A "Clear command" button is located below the "Test Printing" section. A note below the input field states: "* After Editing the Command, Click the Command Write Button to send the Printer." Below this is the "Printing Option" section, which includes "Font" (with buttons for "Font A", "Font B", "Line Spacing", and "Select Codepage"), "Alignment" (with buttons for "Left Alignment", "Center Alignment", and "Right Alignment"), and "Cut and Feeding" (with buttons for "Paper Cut" and "Feed"). There are checkboxes for "Bold" and "Underline" next to "Select Codepage". Below the "Printing Option" section is the "Status check" section with a "Status check" button, and the "Cash Drawer" section with buttons for "Open Drawer 1 50ms(2pin)" and "Open Drawer 2 50ms(5pin)". At the bottom is the "File" section with "Save" and "Load" buttons, and a "Close" button on the right.

Command Test Editor

Command (Hex Value, Ex: 1d 61 ff 0a)

Write to the Printer

Write Command

Test Printing

Print Test String

Self Test

Clear command

* After Editing the Command,
Click the Command Write Button to send the Printer.

Printing Option

Font

Font A Font B Line Spacing Select Codepage ☐ Bold ☐ Underline

Alignment

Left Alignment Center Alignment Right Alignment

Cut and Feeding

Paper Cut Feed

Status check

Status check

Cash Drawer

Open Drawer 1 50ms(2pin) Open Drawer 2 50ms(5pin)

File

Save Load Close