

# POS Thermal Receipt Printer

## A11 Prime

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**Unified POS Utility**

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# 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.

We at Posbank maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

# 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. On the left, the 'Interface Type' section has radio buttons for SERIAL (selected), PARALLEL, USB, LAN, WLAN, and BLUETOOTH. Below it, the 'Communication Setting' section 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 buttons for 'VMSM (Virtual Memory Setting Manager)', 'NV Image Tool (Non-Volatile Image Tool)', and 'Command Test Editor'. Below these is a 'Select Language' dropdown menu set to 'English', and an 'Exit' button at the bottom right. A copyright notice 'Copyright (C) POSBANK Co., Ltd. All rights reserved.' is at the very bottom.

## 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 main area is titled 'Virtual Memory Switch Status Display' and contains a list of settings for PIN 1 through PIN 8. Each setting has a dropdown menu currently set to 'Disable'. At the bottom, there is a 'Memory switch' dropdown set to '1', and '< Back' and 'Next >' buttons. On the right side, there are two sections: 'Setup Status' with buttons for 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'; and 'User Status Setting' 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 main area is divided into several sections: 'Printer Model' and 'Firmware Version' (both empty); 'Codepage' with checkboxes for 'Single byte country' (selected) and 'Double byte country'; 'Single byte font selection' with a dropdown set to 'Font A (12x24)'; 'International Character set' with a dropdown set to 'USA'; 'Print Speed & Density' with dropdowns for 'Speed 3 [Default]' and 'Density 1 [Default]'; 'Black mark mode' with radio buttons for 'Enable' and 'Disable' (selected), and a 'Sensing level' dropdown set to 'Level 0'; 'Auto load mode' with radio buttons for 'Enable' and 'Disable' (selected); and 'Power Save Mode' with radio buttons for 'Disable' and 'Enable' (selected), and an 'Entrance time(sec)' input field set to '20'. On the right side, there are two sections: 'Setup Status' with buttons for 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'; and 'User Status Setting' with buttons for 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is at the bottom right.

#### 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.

Virtual Memory Setting Manager

Printer Setting | Bluetooth configuration | Serial communication setting | Memory switch

Virtual Memory Switch Status Display

[PIN 1] Print Speed: Disable

[PIN 2] Print Speed: Disable

[PIN 3]: Disable

[PIN 4]: Disable

[PIN 5]: Disable

[PIN 6] Print Density: Disable

[PIN 7] Print Density: Disable

[PIN 8]: Disable

Memory 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.

Virtual Memory Setting Manager

Printer Setting | Bluetooth configuration | Serial communication setting | Memory switch

Printer Model :

Firmware Version :

Codepage

☐ Single byte country

PC437 (USA: Standard Europe)

☐ Double byte country

Single byte font selection

Font A (12x24)

International Character set

USA

Print Speed & Density

Speed 3 [Default] Density 1 [Default]

Black mark mode

☐ Enable ☒ Disable

Sensing level : Level 0

Auto load mode

☐ Enable ☒ Disable

Power Save Mode

☐ Disable ☒ Enable

Entrance time(sec) : 20

Setup Status

Print Status

Print Codepage

Get Status

Set Status

User Status Setting

Save Status

Load Status

Initialize Status

Close

### 4-1-3 Serial communication Setting

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

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Serial communication setting' tab selected. The 'Communication Setting' section contains four dropdown menus: Baud Rate (9600), Data Btis (8), Parity (NONE), and Flow Control (DTR/DSR). On the right, the 'Setup Status' section has buttons for 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'. Below this, the 'User Status Setting' section has buttons for 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is at the bottom right.

### 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 'Bluetooth configuration' section includes: 'Operating mode' set to 'Normal'; 'Authentication & Encryption' with 'Disable' and 'Enable' radio buttons (the latter is selected); 'Connection mode' set to 'Mode 2'; a 'PIN Code' field with '0000'; and a 'Device name' field with 'BLUETOOTH PRINTER'. Below these are 'Get Status' and 'Set Status' buttons. On the right, the 'Setup Status' section has buttons for 'Print Status', 'Print Codepage', 'Get Status', and 'Set Status'. Below this, the 'User Status Setting' section has buttons for 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is at the bottom right.

#### ■ 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)



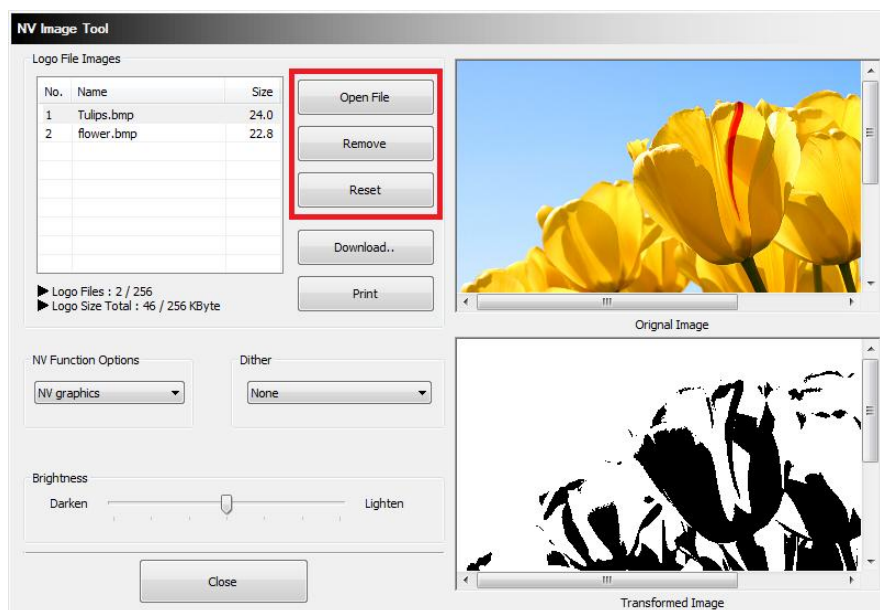
## 4-2 NV Image Tool

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.

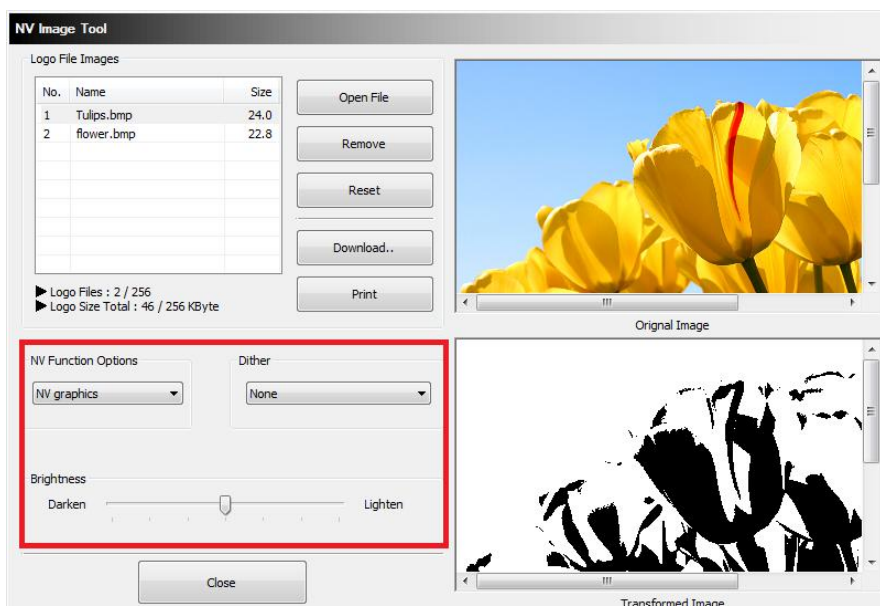
### 4-2-1 Image List Management

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.



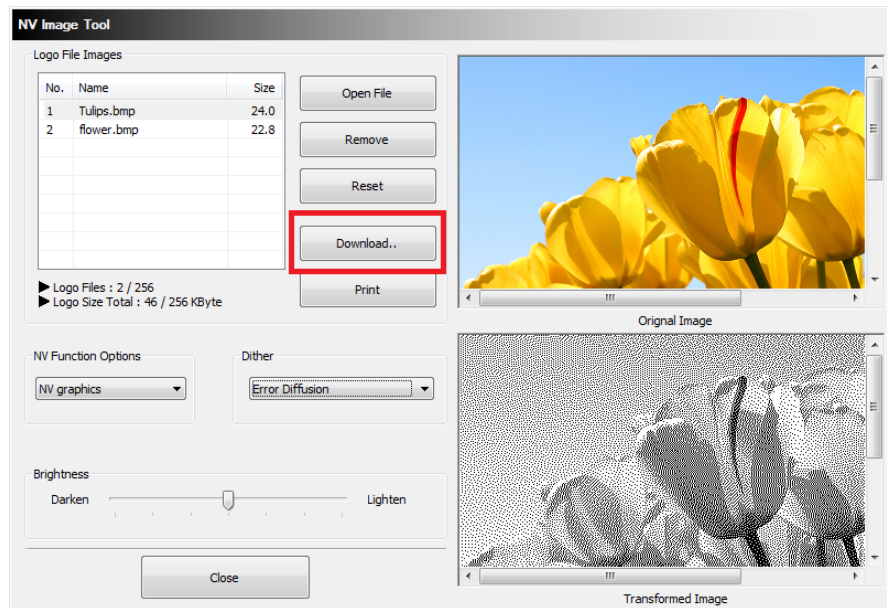
### 4-2-2 Correction image

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

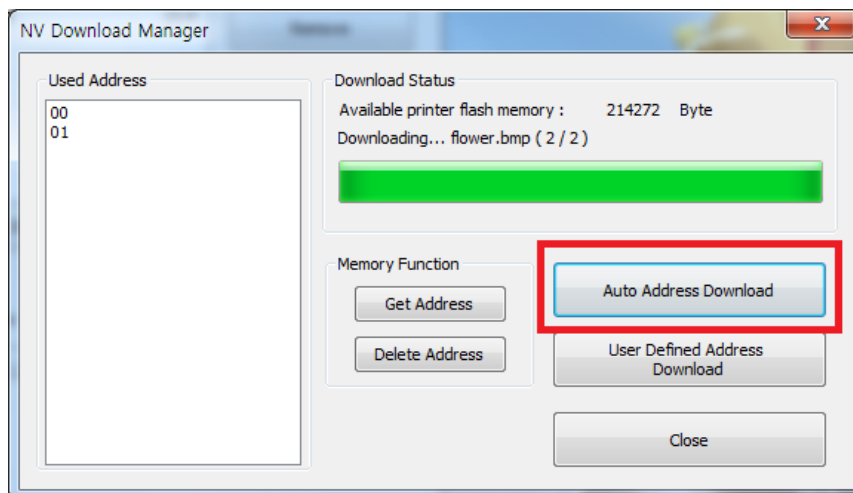


#### 4-2-3 Download the image

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

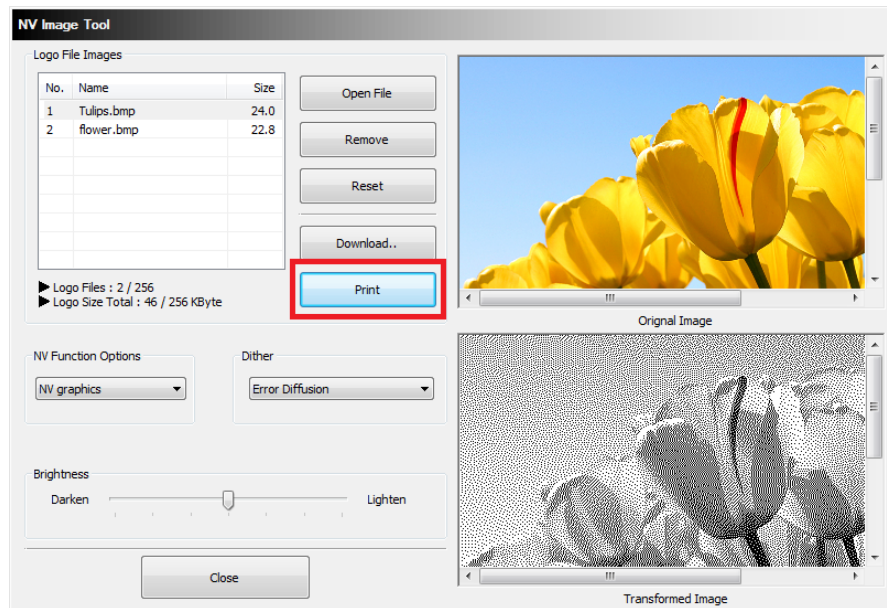


- 2) After all images stored on the corresponding printer are deleted, the image matching the selected resolution level is downloaded. The image is assigned a number according to the image list displayed on the screen.

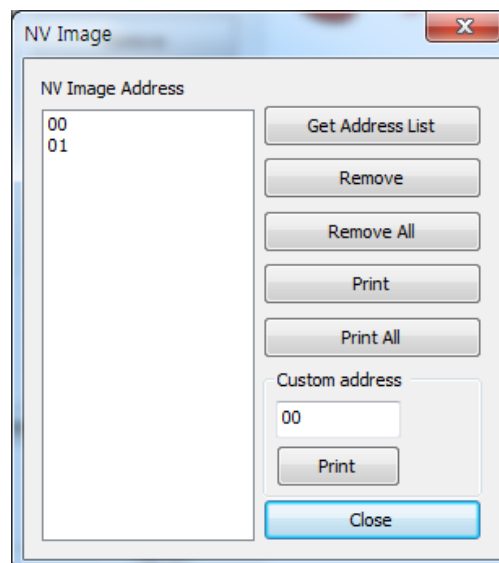


#### 4-2-4 Print the image

- 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 field labeled "Command (Hex Value, Ex: 1d 61 ff 0a)" is present. To the right of this field is a "Write to the Printer" section containing a "Write Command" button. Below the text 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 states: "\* 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 Option" section 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.

**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