



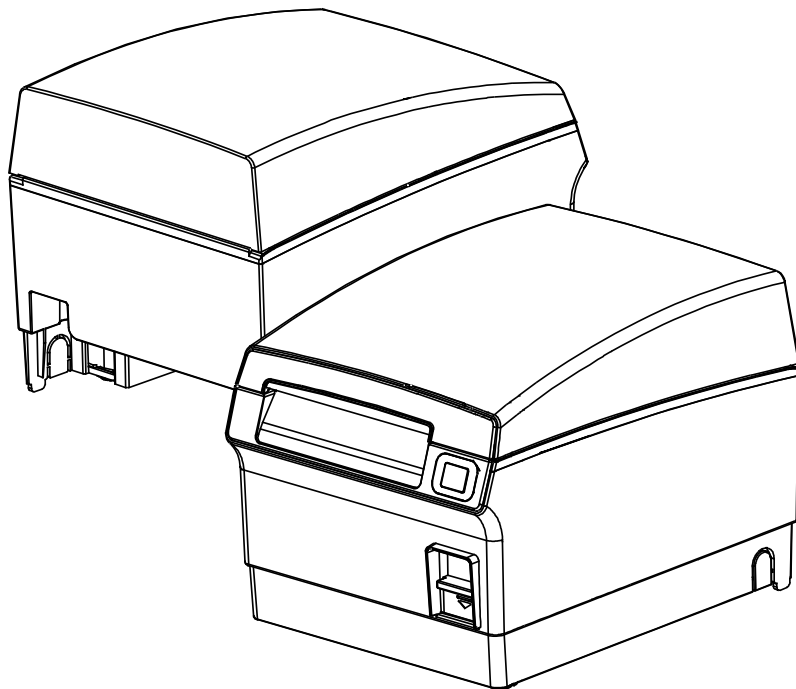
# Software Manual

## Virtual Memory Switch Manager

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**Rev. 1.01**

**SRP-F310  
SRP-F312**



<http://www.bixolon.com>

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# 1. Manual Information

The purpose of this manual is to provide information on the operation and usage instructions of the Virtual Memory Switch Manager Utility for the BIXOLON Thermal Printers.

We at BIXOLON 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. Usage Environment

### 2-1 Operating System

Following operating systems are supported for usage.

Microsoft Windows XP (32bit/64bit)  
Microsoft Windows Server 2003 (32bit/64bit)  
Microsoft Windows Embedded For Point Of Service  
Microsoft Windows VISTA (32bit/64bit)  
Microsoft Windows Server 2008 (32bit/64bit)  
Microsoft Windows 7 (32bit/64bit)  
Microsoft Windows 8 (32bit/64bit)

### 2-2 Interface

Use of this Utility is supported on the following Interface.

Serial (RS-232)  
Parallel  
USB  
Ethernet

## 3. Ready to VMSM

VMSM is included in the enclosed CD, and Latest file versions can be downloaded from the BIXOLON website.

([www.bixolon.com](http://www.bixolon.com))

### 4. Usage of VMSM

#### 4-1 Printer Communication Setting

To use the VMSM (Virtual Memory Switch Manager), It is necessary to set the status of communication between Printer and PC.

- 1) Run the “VMSM” program.
- 2) Upon initiation of the program, the following pop-up window will appear.

The screenshot shows a software window titled 'Interface Type' with four radio buttons: SERIAL (selected), PARALLEL, USB, and Ethernet. Below this is a 'Communication Setting' section with several dropdown menus: Port (set to COM1), Baud Rate (set to 9600), Data Bits (set to 8), Parity (set to None), Stop Bits (set to 1), and Flow Control (set to Hardware). At the bottom left are input fields for IP and Port (set to 0). On the right side of the window are five buttons: 'Check Communication', 'Self Test', 'Run Manager', 'Command Test Editor', and 'Exit'.

- 3) Select the Interface Type.

- SERIAL
- PARALLEL
- USB
- Ethernet

In the Serial Interface, match the communication setting (COM Port Number and Baud Rate) to those of the Printer.

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- 4) Click the “Check Communication” button, and Check the Current Communication Status.
- 5) If communication is okay, the Self Test button, Run Manager button and Command Test Editor button become available for selection.

The screenshot shows a software window titled "Virtual Memory Switch Manager". At the top, there is a section labeled "Interface Type" with four radio buttons: "SERIAL" (selected), "PARALLEL", "USB", and "Ethernet". Below this is a "Communication Setting" section containing several dropdown menus: "Port" (set to "COM3"), "Baud Rate" (set to "115200"), "Data Bits" (set to "8"), "Parity" (set to "None"), "Stop Bits" (set to "1"), and "Flow Control" (set to "Hardware"). There are also input fields for "IP" and "Port" (set to "0"). To the right of these settings is a vertical stack of five buttons: "Check Communication" (highlighted with a red border), "Self Test", "Run Manager", "Command Test Editor", and "Exit".

[Self Test]: Pressing this button prints the self-test page of the printer.

[Run Manager]: Pressing this button opens a window for memory switch settings of the printer.

[Command Test Editor]: Pressing this button opens a window for command test of the printer.

### 4-2 Getting the Memory Switch Status of the Printer

1) If the Communication Setting is OK, click the “Run Manager” button.

The screenshot shows a window titled "Virtual Memory Switch Manager" with two main sections. The "Interface Type" section at the top has four radio buttons: SERIAL (selected), PARALLEL, USB, and Ethernet. Below this is the "Communication Setting" section, which contains several dropdown menus: Port (COM3), Baud Rate (115200), Data Bits (8), Parity (None), Stop Bits (1), and Flow Control (Hardware). There are also input fields for IP and Port (0). To the right of these settings are five buttons: "Check Communication", "Self Test", "Run Manager" (which is highlighted with a dotted border), "Command Test Editor", and "Exit".

2) Click the “Get Status” button. It gets the status of the Printer Setting.

The screenshot shows a window titled "Printer Status" with a blue title bar and a close button. It has two tabs: "Memory switch" and "Printer Setting" (which is selected). The "Printer Setting" tab contains a section titled "Virtual Memory Switch Status Display" with a list of eight items, each labeled "[PIN X] Reserved" and followed by a dropdown menu. Below this list is a label "MSW :" followed by a text box containing the number "1" and two buttons: "< Back" and "Next >". On the right side of the window, there are two groups of buttons. The "Setup Status" group includes "Print Status", "Print Full Codepage", "Get Status" (highlighted with a dotted border), and "Set Status". The "User Status Setting" group includes "Save Status", "Load Status", "Initialize Status", and "Exit". At the bottom of the window is a "Progress :" label followed by a progress bar.

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- 3) 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 'Printer Status' window with the 'Memory switch' tab selected. The window has a blue title bar and a standard Windows-style border. Inside, there are two tabs: 'Memory switch' and 'Printer Setting'. The 'Memory switch' tab is active, displaying a 'Virtual Memory Switch Status Display' section with a list of settings, each with a dropdown menu set to 'Disable':

- Print Speed (Set in Printer Setting Tab)
- Print Speed (Set in Printer Setting Tab)
- [PIN 3] Reserved
- [PIN 4] Reserved
- [PIN 5] Reserved
- [PIN 6] Reserved
- [PIN 7] Reserved
- [PIN 8] Reserved

Below this list is an 'MSW' field with the value '1' and two buttons: '< Back' and 'Next >'. To the right of the settings is a 'Setup Status' section with buttons: 'Print Status', 'Print Full Codepage', 'Get Status', and 'Set Status'. Below that is a 'User Status Setting' section with buttons: 'Save Status', 'Load Status', 'Initialize Status', and 'Exit'. At the bottom left is a 'Progress' bar.

- 4) The “Printer Setting” Tab displays Serial communication settings, printer information, and code page information, and allows new settings to be defined.

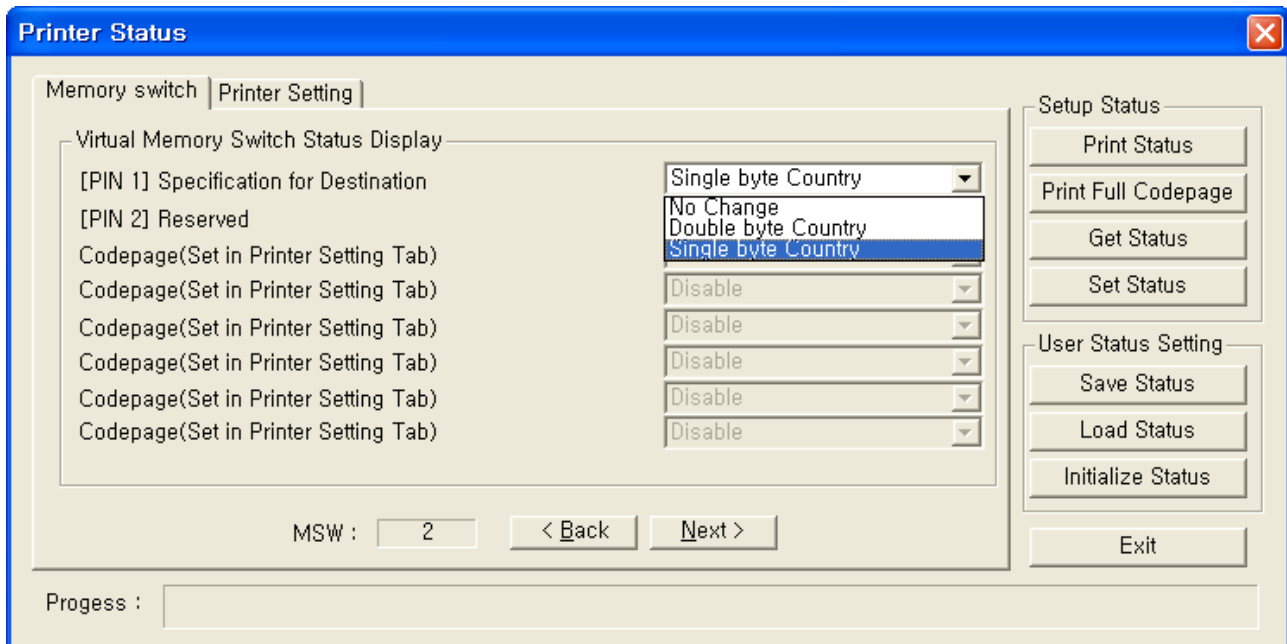
The screenshot shows the 'Printer Status' window with the 'Printer Setting' tab selected. The window has a blue title bar and a standard Windows-style border. Inside, there are two tabs: 'Memory switch' and 'Printer Setting'. The 'Printer Setting' tab is active, displaying various settings:

- Printer Model :  
Firmware Version :  
Language :
- Emulation : Emulation 1 [Default]
- Double byte Font selection : No Change
- Single Byte Font Selection : Font A (12x24)
- Default Code Page : No Change
- Print Speed : Print speed 3 [Default]

To the right of these settings is a 'Setup Status' section with buttons: 'Print Status', 'Print Full Codepage', 'Get Status', and 'Set Status'. Below that is a 'User Status Setting' section with buttons: 'Save Status', 'Load Status', 'Initialize Status', and 'Exit'. At the bottom left is a 'Progress' bar.

### 4-3 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.

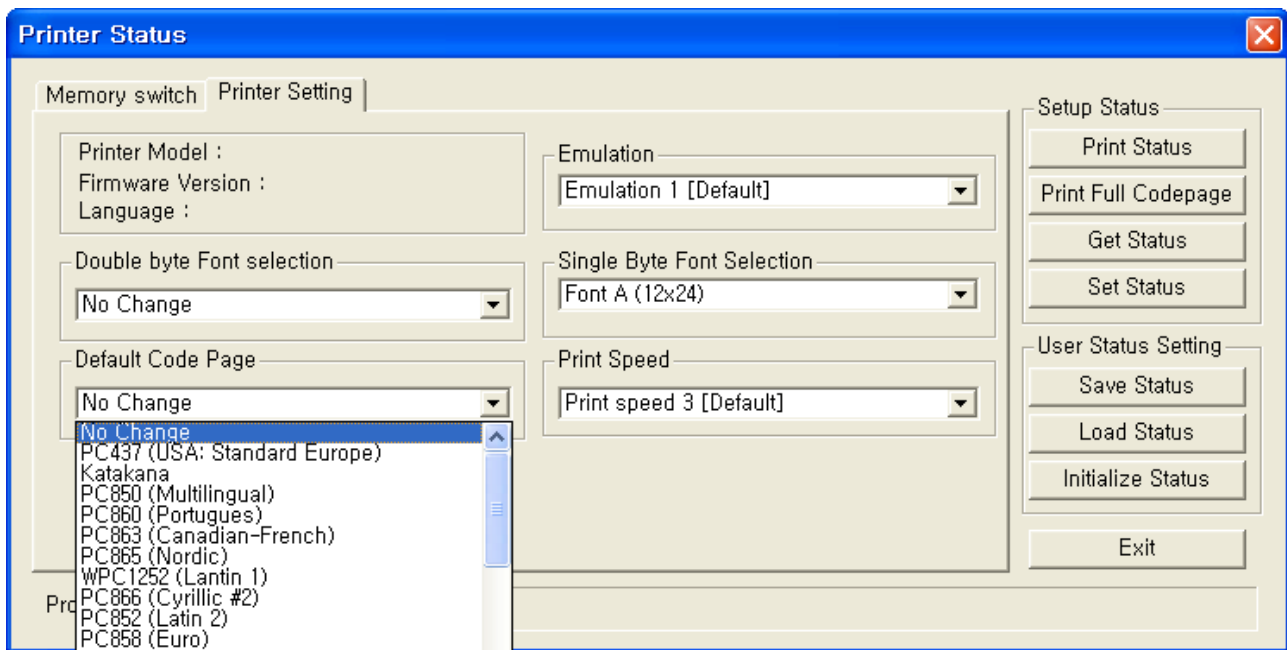


- 1) "Get Status"  
Pressing this button displays the current memory switch settings read from the printer.
- 2) "Set Status"  
Pressing this button allows the user to designate switch settings of the printer.
- 3) "Save Status"  
Pressing this button saves the current memory switch settings to file.
- 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.



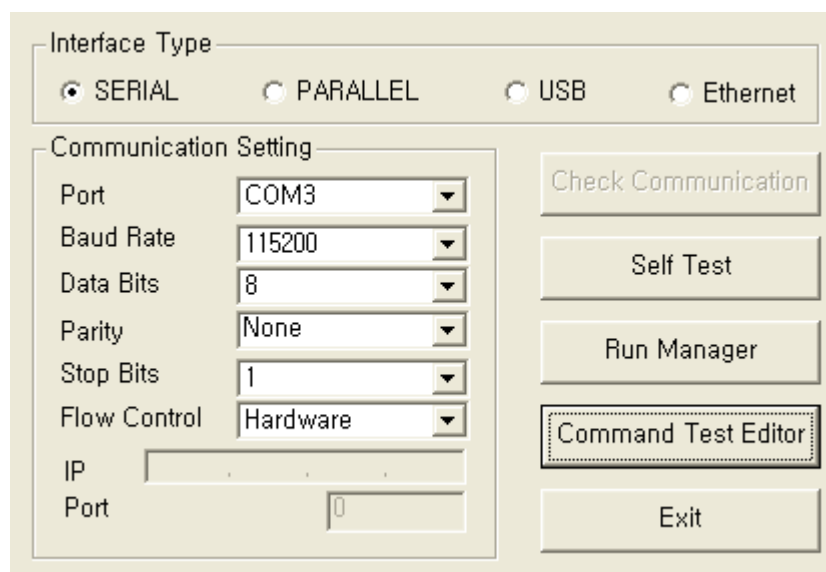
### 6) “Default Code Page Combo Box”

The user may select and set the default code page.



## 4-4 Using the Command Test Editor

1) If the Communication Setting is OK, click the “Command Test Editor” button.



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- 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 a blue gradient and a red close button. The main area is divided into several sections. At the top, there's a label "Command (Hex Value, Ex: 1d 61 ff 0a)" followed by a large text area for editing. To the right of the text area are two buttons: "Write to the Printer" (containing "Write Command") and "Test Printing" (containing "Print Test String"). Below the text area is a note: "\* After Editing the Command, Click the Command Write Button to send the Printer". The "Printing Option" section contains a "Font" group with buttons for "Font A", "Font B", "Line Spacing", and "Select Codepage", along with checkboxes for "Bold" and "Underline". Below that is an "Alignment" group with buttons for "Left Alignment", "Center Alignment", and "Right Alignment". To the right of these is a "Cut and Feeding" group with buttons for "Paper Cut" and "Feed". The "Etc" section contains two groups: "NV Image" with a "Print NV Image" button, and "Cash Drawer" with buttons for "Open Drawer1 50ms(2pin)" and "Open Drawer2 50ms(5pin)". At the bottom of the dialog are four buttons: "Clear", "Save", "Load", and "Close".

Command Test Editor

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

Write to the Printer

Write Command

Test Printing

Print Test String

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

Printing Option

Font

Font A Font B Line Spacing Select Codepage

Alignment

Left Alignment Center Alignment Right Alignment

Cut and Feeding

Paper Cut Feed

Etc

NV Image

Print NV Image

Cash Drawer

Open Drawer1 50ms(2pin) Open Drawer2 50ms(5pin)

Clear Save Load Close