

# SR80 Tool

User Guide V1.00

All specifications are subject to change without notice.

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# **CHAPTER 1.**

## **INTRODUCTION**

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It is integrated software for POS Printer SR80 and it includes the all of the necessary utility for our printer product. If you want to other resource for our printer example windows driver, OPOS driver and other interface driver, please visit our web site.

# **CHAPTER 2. SUPPORT DEVICE & INTERFACE**

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DEVICES

- SR80

FUNCTIONS

- NV Logo download
- User Setup
- Firmware download
- Net Configuration

INTERFACES

- RS-232c (Serial)
- IEEE1284 (Parallel)
- USB (Virtual COM , USB)
- Ethernet (TCP/IP)
- WLAN (TCP/IP)

# **CHAPTER 3.**

## **User Interface**

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3.1. MAIN DIALOG

3.2. PORT SETUP DIALOG

3.3. LOGO SETUP DIALOG

3.4. USER SETUP DIALOG

3.5. FIRMWARE DOWNLOAD DIALOG

3.6. NETWORK SETTING DIALOG

## 3.1. Main Dialog

### Main Dialog

It a Main Page of GIANT Tool.



- Port Setup : Choose Device & Interface
- Logo Setup : Logo Image Downloading & Image printing
- User Setup : Changing variable custom settings
- FW Download : Update printer's firmware.
- Net Config : Changing printer's network setting.
- Exit



## 3.2. Port Setup Dialog

### Port Setup Dialog

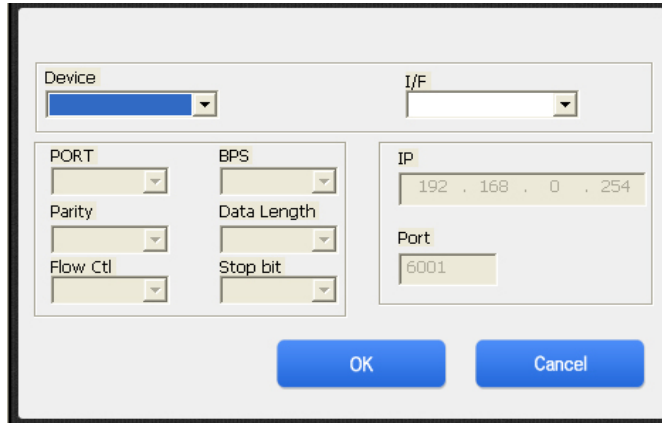
You can select the device & Interface

#### <DEVICE LIST>

- SR80

#### <INTERFACE LIST>

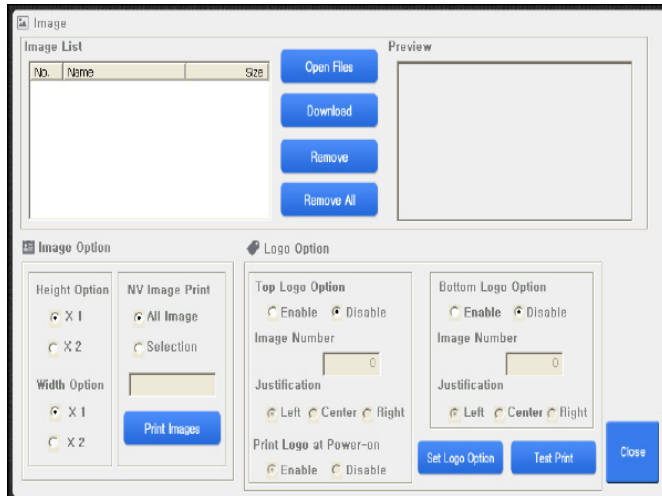
- Serial
- USB(USB, VCOM)
- ETHERNET
- WLAN



## 3.3. Logo Setup Dialog

### Logo Setup Dialog

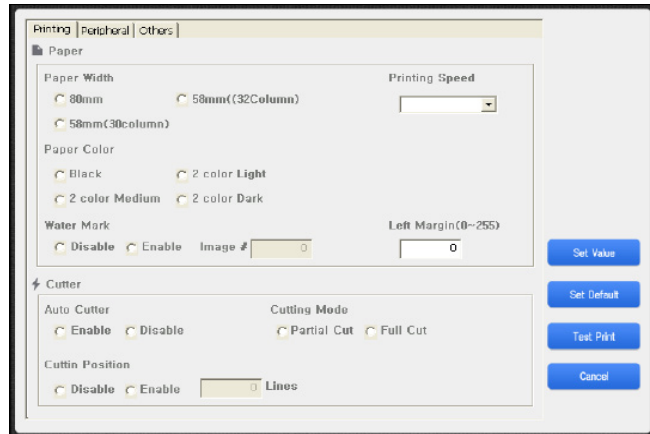
You can download images and printing images.



## 3.4. User Setup Dialog

### User Setup Dialog

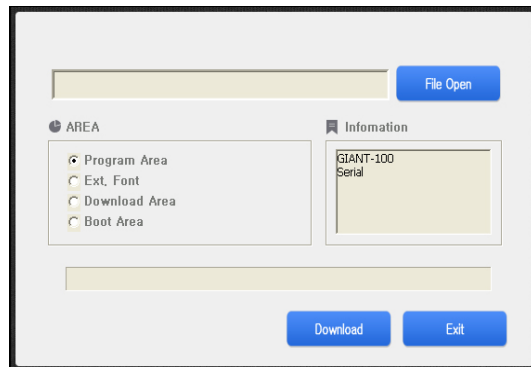
You can change variable custom settings only for Printer.



## 3.5. Firmware Download Dialog

### Firmware Download Dialog

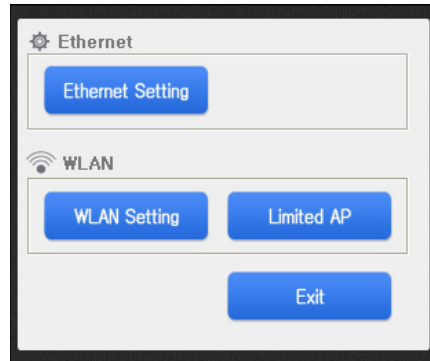
You can update printer's firmware.



## 3.6. Network Setting Dialog

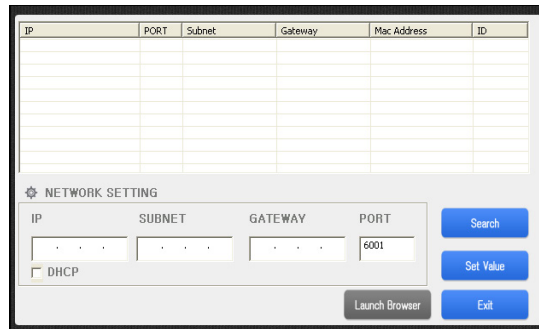
### Net Config Dialog

You can change printer's network setting



### Ethernet Setting Dialog

You can change a printer's Ethernet setting.



## 3.7. Network Setting Dialog

### WLAN Setting Dialog

You can change a printer WLAN network setting for Infrastructure.

The screenshot shows the 'WLAN Setting Dialog' interface. At the top, there is a 'VCOM Port' section with a dropdown menu and a 'Search' button. Below this is an 'Info' section with a large empty text area. A 'Deep Scan' checkbox is located below the info section. The main part of the dialog is a table with the following columns: SSID, CHANNEL, TYPE, RSSI, and SECURITY. Below the table is a 'NETWORK SETTING' section with the following fields: SSID, PASSWORD, SECURITY (dropdown), WEP Encryption Key (dropdown), IP (0 . 0 . 0 . 0), SUBNET (0 . 0 . 0 . 0), GATEWAY (0 . 0 . 0 . 0), and PORT (0). There are 'Exit' and 'Set Value' buttons at the bottom.

### Limited AP Dialog

You can change a printer WLAN network setting for Limited AP.

The screenshot shows the 'Limited AP Dialog' interface. At the top, there is a 'VCOM Port' section with a dropdown menu and a 'Search' button. Below this is a 'NETWORK SETTING' section with the following fields: AP NAME, PASSWORD, SECURITY (dropdown), CHANNEL (dropdown), IP ( . . . ), SUBNET ( . . . ), GATEWAY ( . . . ), MAC ADDRESS, and PORT. There are 'Exit' and 'Set Value' buttons at the bottom.

# **CHAPTER 4.**

## **Description of each functions**

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4.1. LOGO SETUP

4.2. USER SETUP

4.2.1. Description of User Setup Options

4.3. FIRMWARE DOWNLOAD (USING UTILITY)

4.4. FIRMWARE DOWNLOAD  
(USING USB MEMORY STICK)

4.5. NETWORK SETTING DIALOG  
(ETHERNET INTERFACE)

4.5.1. Ethernet Network Dialog

4.6. NETWORK SETTING DIALOG  
(WLAN INTERFACE)

4.6.1. WLAN Network Dialog

4.6.2. Glossary of Terms

4.6.3. Install a Virtual COM Driver  
(Windows XP, POSReady 2009)

4.6.4. Install a Virtual COM Driver  
(Windows 7, POSReady 7)

4.6.5. Infrastructure mode setting

4.6.6. Limited AP setting

# 4 Description of each functions

## 4.1. Logo Setup

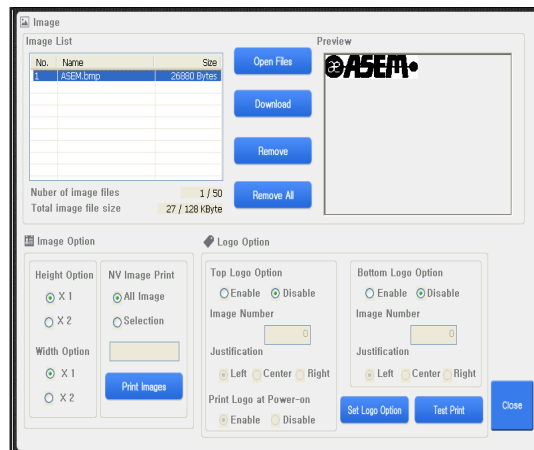
Logo Setup function can be used for image downloading to NV (Non-Volatile) memory of SR80 or for image printing from it.

### 1. General feature

- 1) Maximum memory capacity: 128Kbyte
- 2) Total logo count : Maximum 255
- 3) Black/White diverging point
- 4) Image data format : Changeable to a file

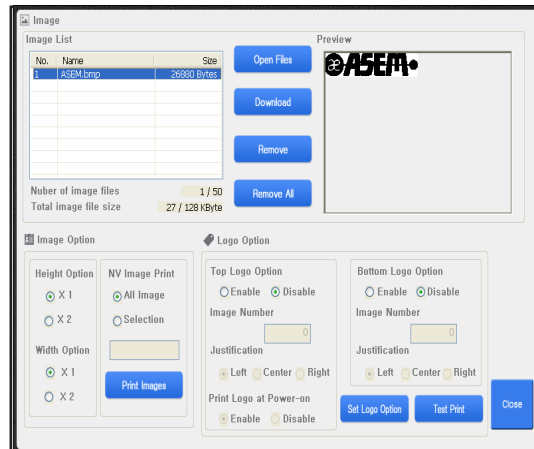
### 2. Logo registration sequence

- Select the bitmap file stored in a printer.



## 4.1. Logo Setup

- At Preview , you can see the logo file you selected.
- If you press the Upload button, the Bitmap image data will be downloaded in the NV graphics memory area of the connected printer. If uploading process finishes successfully, the printer feeds paper a little.



- You can specify the Printing Range for the logos uploaded in the printer's NV graphics memory area. Selectable choices are below :  
**All** : Prints all logo images saved in the printer connected currently.  
**Selection** : Prints the selected logo image saved in the printer connected currently. Selection range can be from 1 to 255. But you can select multiple logo-images by using ',' or '-' in the edit box. (e.g. "1,5,10" or "1-5,8,20-22")
- You can specify Quality.  
**Normal** : Print in single height and width  
**D/Width** : Print in double width  
**D/Height** : Print in double height  
**Quadruple** : Print in double height and width

## 4.1. Logo Setup

- After Logo uploading, you can set logo options.

### Logo Option :

Enable/Disable printing logo

### Image Number :

Number of uploaded image

### Justification :

Justification of logo

### Print logo at power-on :

Printing top logo at power on

Logo Option

Top Logo Option  
 Enable  Disable  
Image Number   
Justification  
 Left  Center  Right  
Print Logo at Power-on  
 Enable  Disable

Bottom Logo Option  
 Enable  Disable  
Image Number   
Justification  
 Left  Center  Right

Set Logo Option Test Print

- Click and input options and press the Set Logo Option button. If setting process finishes successfully, the printer rebooted.
- Try to click the “Test Print” button and you will see the fantastic receipt with logo image.





## 4.2. User setup

- About Buttons

### [Test Print]

You can test the printer and check the printer's setting. If you press this button, Printer prints out some characters and cuts the paper.

### [Set Default]

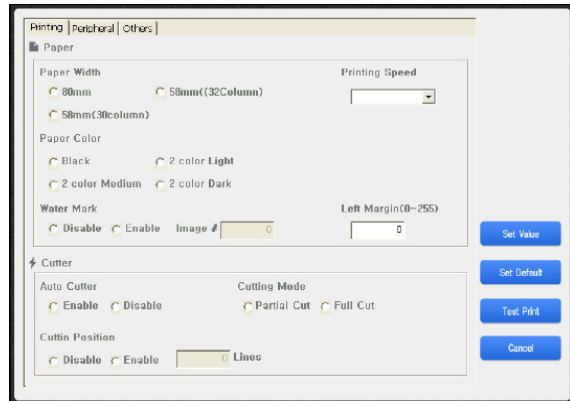
Can reset to default values all of them.

### [Set Value]

It sets values with displayed on the dialog or selected of the printer.

### [Cancel]

Quits this application and returns to Main Dialog.



### 4.2.1. Description of User Setup Options

#### A. Paper Width & Max Column (Default : 80mm)

This is an option of the paper width for printing. It can be set the paper 58mm or 80mm width.

#### B. PaperType and Black Density (Default : Black / Medium)

This is an option of the paper type. It can be set Black or 2Color. The second color can be red or blue by 2 color thermal paper type.

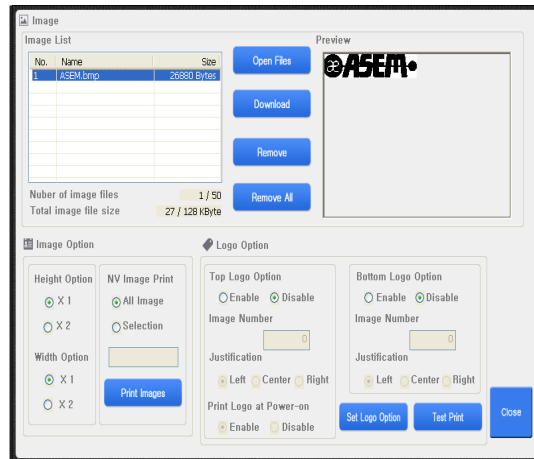
#### C. Water Mark Function (Default : Disable)

It is SR80 that prints background image on your receipt without any additional commands. You can use Watermark with Logo Downloader in GIANT-Tool. If you want to print background image, prepare the bitmap image which will be background. And then follow steps as below.

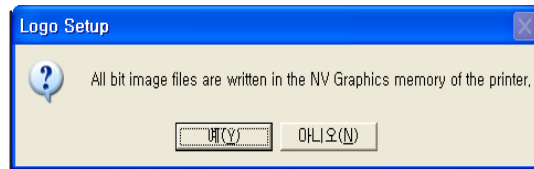
## 4.2. User setup

1. Run Logo Setup Dialog and select the prepared bitmap image. And check the image number.

2. Click the “Download” button.



3. It will show the message box like below, click the “YES” button.



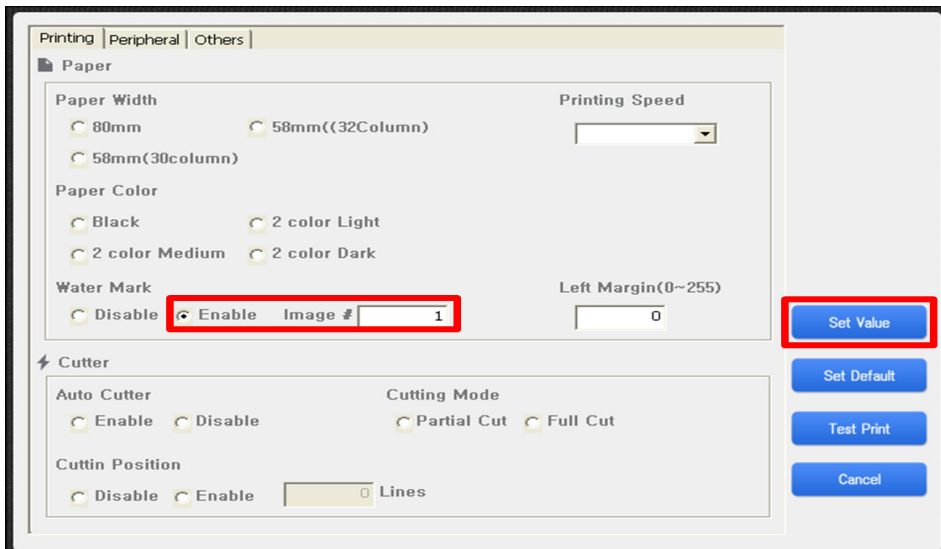
4. All of images saved before on the printer will be deleted and new image data will be downloaded on your printer.

5. Printer feeds some paper when the logo download is completed successfully.

6. Close Logo Setup Dialog and run User Setup from Main Dialog.

## 4.2. User setup

7. Set Enable of the Water Mark Function and input the number of logo image that you want to print as a background. (Refer step 1) And then click the “Set Value” button. The printer will be set values newly and Water Mark Function setting is finished.



## 4.2. User setup

8. Try to click the “Test Print” button and you will see the fantastic receipt with background image. Left picture is the sample receipt that is applied the Water Mark Function. Right one is bitmap image that is used as a background image.



- D. Cutting position adjustment Function (Default : Disable / 0 Line)  
If your receipt is cut wrong, this option will be very useful with you, it makes the application not change.  
When this option set to enable, printer will feed amount (line number input) of paper before cutting.
- E. Drawer open with cutting (Default : Disable)  
This option will make drawer take an open-signal when printer is received the paper cutting command.
- F. Kitchen Bell Type & Length (Default : Bell / 3 times)  
Printer offers one bell and three melodies for using on kitchen. It is possible to adjust ringing time or length of melody.  
The offered bell types are below.

## 4.2. User setup

**Bell:** Default bell

**Melody 1 ~ 3:** Three different melodies

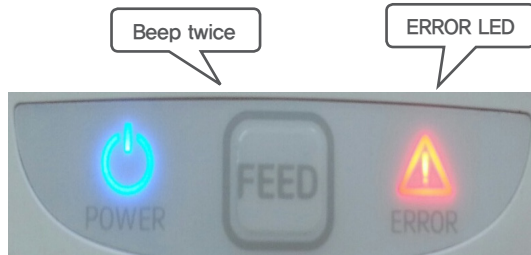
**Other Bell:** Blend bell (Internal oscillation type)

- G. Default Code Page (Default : PC437-USA, Standard Europe)  
If you want to fix the specified codepage as default, select one of codepages in the list and then click the "Set Value" button.
- H. Max Print Speed (Default : 250 mm/sec)  
If printer, especially machine is fast and data transfer-speed is low, that is, two of them have speed mismatched. This case may be cause of an intermittent printing. You can control print speed from this option for better printing, e.g. smooth printing.
- I. Set Left Paper Margin (Default : 0 dot)  
Left margin of paper is changeable for better receipt (printed) shape. For example, if you are using 40-column-format receipt on the printer, you may be seen a print-result tended to left side. In this case you can take much better result, if you set 24-dots which is the value of left margin.
- J. Drawer Open In Self-Test (Default : Disable)  
Check the drawer operation at print self-test mode.
- K. Received Buffer Size (Default : 4Kbytes)  
Printer's received buffer can be 64Kbytes maximum. You can change buffer size with this option.
- L. Stop Bits (COM) (Default : ONE)  
Stop bits used during serial communication can be changed.
- M. Paper save mode (Default: OFF)  
Set a Paper save mode. This mode saves paper.

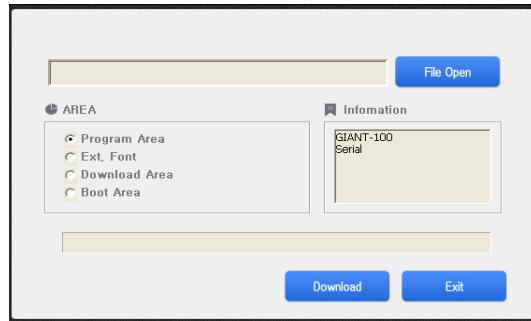
## 4.3. Firmware download (Using Utility)

Firmware update sequences are below.

1. Remember folder directory with downloaded firmware file.
2. Turn the printer off.
3. Check the cable connection between printer and your PC. If a printer have dip Switches, please turn off all dip switches.
4. Open the printer cover.
5. Turn on printer with FEED button; hold the feed button with 2times buzzer.
6. Now, printer is ready to update firmware.
7. Run the "Firmware Update Dialog" on Utility and open the downloaded firmware file.
8. And then, select the download area which you want to update. (generally select the "Program area")
9. Select the connected port on your PC. (Already selected on utility)
10. If you click the download button, the firmware update will be started and this application will show the status with progress-bar on dialog bottom side.  
(If progress-bar does not proceeding well, when you click download button, you should check 'Port Select' or cable connection whether settings are correct or not.)



11. If download is done, printer will notify download completion with 5 times buzzer. (in surely case that download is succeeded). And then turn off a printer.
  - If buzzer does not ring that means communication ERROR is occurred during download. In this case, please check Cable connection status (It should be fasten – Normal).
12. Please try to operate 'SELFTEST' and check the updated firmware version.



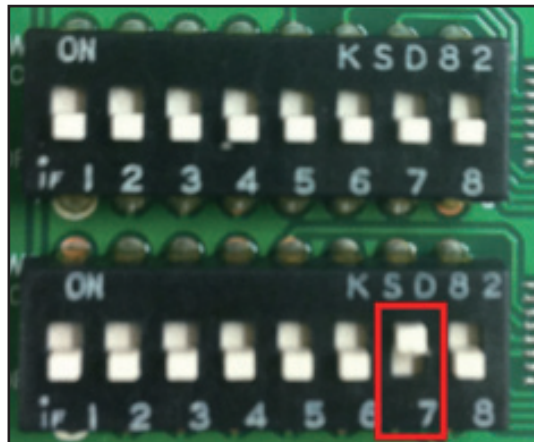
## 4.4. Firmware download (Using USB memory stick)

Firmware update sequences are below.

1. Format a USB memory stick to FAT file system.
2. Copy the firmware file to USB memory stick.(No folder)
3. Turn off a printer. And then connect a USB memory stick to printer USB port.

4. **Printer with dip switch:**

Turn on the switch 7<sup>th</sup> of dip switch 2<sup>nd</sup>. Open the printer cover. Turn on a printer with holding the FEED Button. After 2 seconds, Release the FEED button.



5. If firmware update is done, printer will notify update completion with 5 times buzzer. (in surely case that download is succeeded). And then turn off a printer.
6. Do self-test for confirming the updated firmware version.



## 4.5. Network Setting Dialog (Ethernet Interface)

### 4.5.1. Ethernet Network Setting Dialog

Here you can change the network settings for the printer. If you would like to change the network settings, please follow these steps.

1. The printer is connected to the router. PC must be connected to the same router.
2. Turn on printer normally.
3. Run the "Ethernet Setting Dialog." Press the "Search Printer" button.

The screenshot shows a web-based interface for configuring network settings. At the top, there is a table with columns for IP, PORT, Subnet, Gateway, Mac Address, and ID. Below the table is a section titled "NETWORK SETTING" with a gear icon. This section contains input fields for IP, SUBNET, GATEWAY, and PORT (with the value 6001). There is a checkbox for DHCP. To the right of the input fields are three blue buttons: "Search", "Set Value", and "Exit". At the bottom right of the "NETWORK SETTING" section is a "Launch Browser" button.

IP	PORT	Subnet	Gateway	Mac Address	ID

NETWORK SETTING

IP: . . . SUBNET: . . . GATEWAY: . . . PORT: 6001

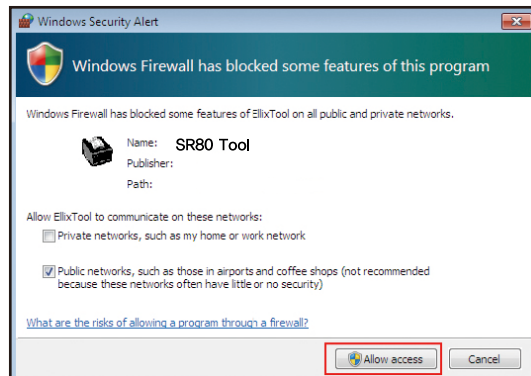
DHCP

Search Set Value Exit

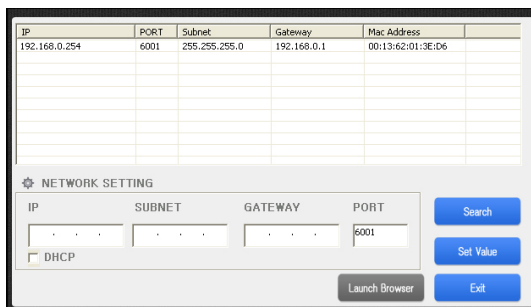
Launch Browser

## 4.5. Network Setting Dialog (Ethernet Interface)

4. If you can see the “Windows Security Alert” message, Click a “Unblock” button (Windows XP) or “Allow access” button (Windows 7). And retry the 3 Step.



5. If you can see the “The Printer has finished searching.” message, detected the printer's network settings appear. (If you can not see any list, Please check cable and network.)



## 4.5. Network Setting Dialog (Ethernet Interface)

6. Choose one to change the IP. Enter the network settings you want (as shown). Finally, press the “Set Value” button.

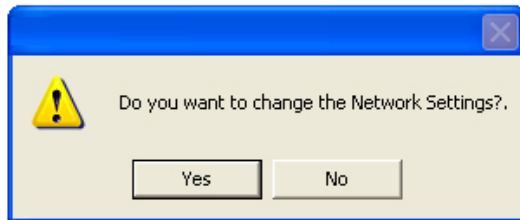
IP	PORT	Subnet	Gateway	Mac Address
192.168.0.254	6001	255.255.255.0	192.168.0.1	00:13:62:01:3E:D6

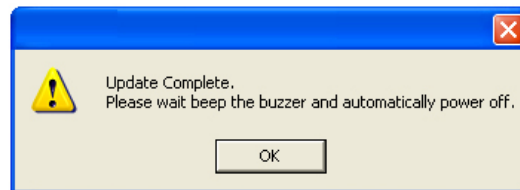
NETWORK SETTING			
IP	SUBNET	GATEWAY	PORT
192.168.0.254	255.255.255.0	192.168.0.1	6001
<input type="checkbox"/> DHCP			

Buttons: Search, Set Value, Launch Browser, Exit

7. You can see the “Do you want to change the Network Setting?” message. Press the “Yes” button.



8. Printer will notify update completion with buzzer, and then printer will be restart.

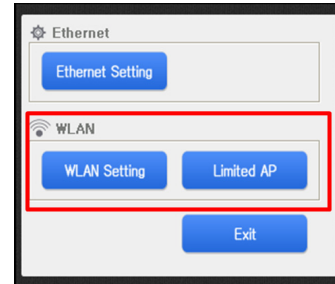


9. Do self-test for confirming the updated network setting.

## 4.6. Network Setting Dialog (WLAN Interface)

### 4.6.1. WLAN Network Dialog

You can select the "Infrastructure Dialog" and "Limited AP Dialog". It can change the network settings for the printer.



### 4.6.2. Glossary of Terms

- AP (Access Point)

AP, actually as a device is a hotspot that is like an Ethernet hub. It can be possible to communicate, which is binding one network with wireless clients (devices) nearby located in AP. And it can be possible to connect to WAN, backbone or another AP (hotspot) through the Ethernet line connected with one AP.

- Infrastructure

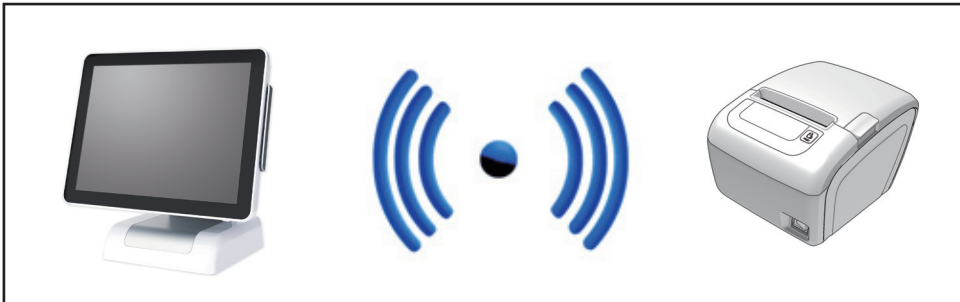
If several terminals (PC, PCPOS etc.) or clients connect to one AP and they are composed to the same network, this is called 'infrastructure'. In other words, infrastructure is a structure that WLAN interface connects with PC or terminals through AP.

## 4.6. Network Setting Dialog (WLAN Interface)



- Limited AP

Limited AP, which WLAN interface is become AP by itself, can be possible to communicate directly with other terminals (PC, PCPOS etc.) or clients without any other APs.

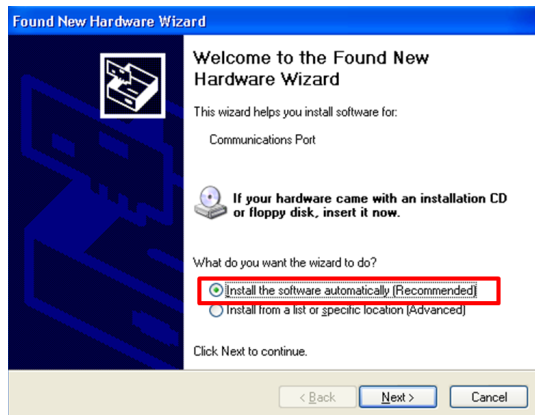


## 4.6. Network Setting Dialog (WLAN Interface)

### 4.6.3. Install a Virtual COM Driver (Windows XP, POSReady 2009)

Virtual COM port driver must be installed when WLAN Interface sets up. During installation, Please do these steps are following.

1. Turn a printer off.
2. Install Printer Driver for installing virtual COM driver automatically. Please refer to the manual of Printer Driver Installer. (Select a connection type of the printer: ETHERNET CONNECTION Create a TCP/IP Printer Port :The value for use later)
3. Connect a USB cable to printer and PC.
4. Turn a printer on.
5. When “Found New Hardware Wizard” is appeared, select a “Install the software automatically (Recommended)”



## 4.6. Network Setting Dialog (WLAN Interface)

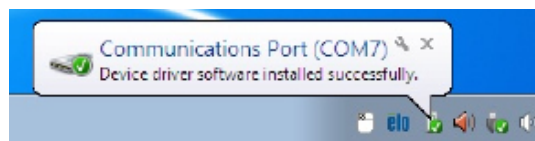
6. When the installation is completed, run the “Device Manager” for checking a New Virtual COM port number.



### 4.6.4. Install a Virtual COM Driver (Windows 7, POSReady 7)

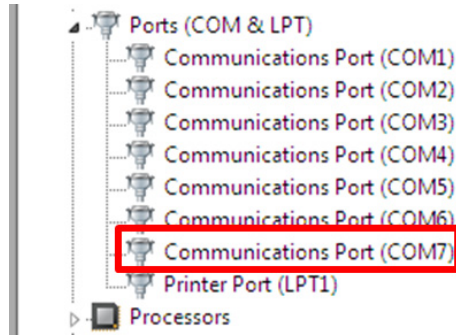
Virtual COM port driver must be installed when WLAN Interface to set up. During installation, Please proceed as follows, depending.

1. Turn a printer off.
2. Install Printer Driver for installing virtual COM driver automatically.  
Please refer to the manual of Printer Driver Installer.  
(Select a connection type of the printer: ETHERNET CONNECTION  
Create a TCP/IP Printer Port: The value for use later)
3. Connect a USB cable to printer and PC.
4. Turn a printer on.
5. When Virtual COM port is installed properly in Windows, this balloon appears as shown.



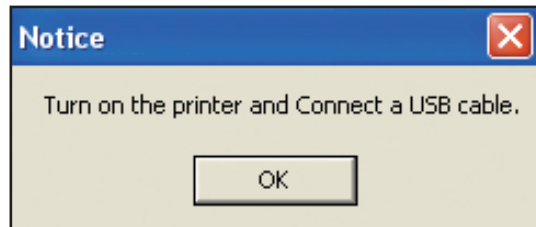
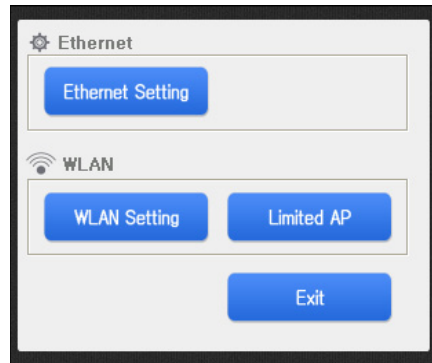
## 4.6. Network Setting Dialog (WLAN Interface)

6. When the installation is completed, run the “Device Manager” for checking a New Virtual COM port number.



### 4.6.5. Infrastructure mode setting

Click “WLAN Setting” Button in dialog. When message box is appeared, turn a printer on and then connect USB cable PC and printer.





## 4.6. Network Setting Dialog (WLAN Interface)

Click “**Search**” button to search AP list.

When message box is appeared, click "OK" button.

VCOM Port Info

COM11 Search

Deep Scan

SSID	CHANNEL	TYPE	RSSI	SECURITY

NETWORK SETTING

SSID:  PASSWORD:  SECURITY:  WEP Encryption Key:

IP:  SUBNET:  GATEWAY:  PORT:

Exit Set Value

When “Search AP” is completed, WLAN interface information and list of around the AP devices appear.

- SSID : AP Name
- CHANNEL: Communication channel
- TYPE : Operation mode
- RSSI : Received signal strength indication
  - O: Weak signal
  - OO : Normal signal
  - OOO : Strong signal

VCOM Port Info

COM11 Search

Deep Scan

SSID	CHANNEL	TYPE	RSSI	SECURITY
song	1	Infra	OOO	Open
BCNG	1	Infra	OO	WEP
BYW_WIFI	5	Infra	OO	WPA2
Evan 2.4G	2	Infra	OO	WPA2
106F3F61AA38-1	1	Infra	OO	Open
Tabby-Demo	1	Infra	OO	Unknown
81#CF	5	Infra	OO	WPA2
SAMHS	6	Infra	OO	WEP
Tabby-Demo	7	Infra	OO	WPA2-Mixed
senrity	5	Infra	OO	Open

NETWORK SETTING

SSID:  PASSWORD:  SECURITY:  WEP Encryption Key:

IP:  SUBNET:  GATEWAY:  PORT:

Exit Set Value

## 4.6. Network Setting Dialog (WLAN Interface)

Select the SSID of AP which you want to connect. (**You must select Normal or Strong signal SSID for a safety communication.**)

If you need a password for connection, enter a **PASSWORD**.

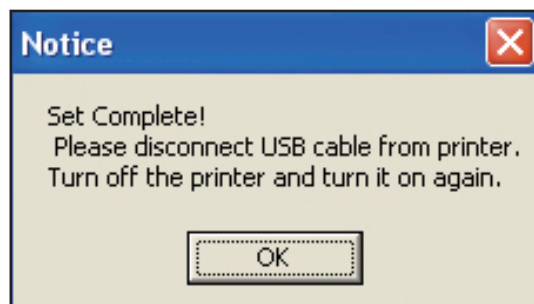
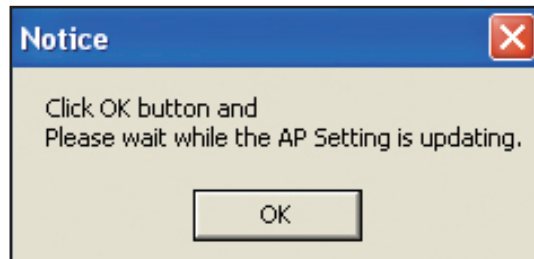
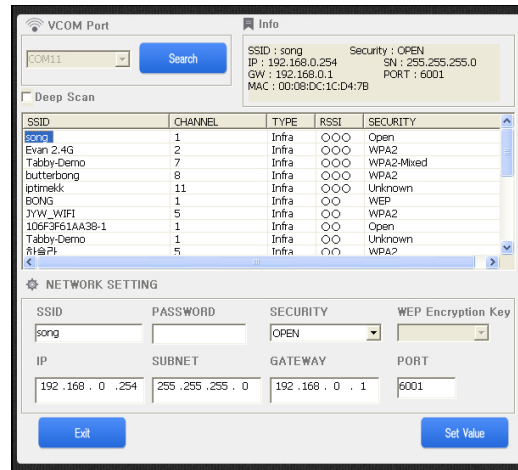
Enter the Network setting values (IP, SUBNET, and GATEWAY) that are assigned from the **network administrator**. And then click "SET Value" button.

Click the "OK" button; please wait for the completion of setting.

When the setting is completed, this message appears as shown in the figure.

Then disconnect the USB cable from the printer, the printer off and turn it on.

*Note: PC and the printer must be on the same network.*

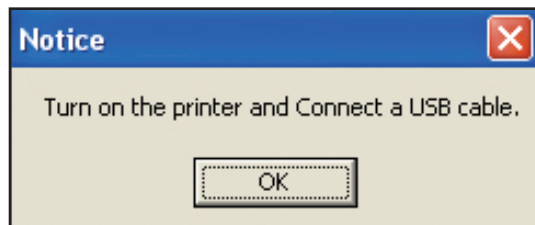
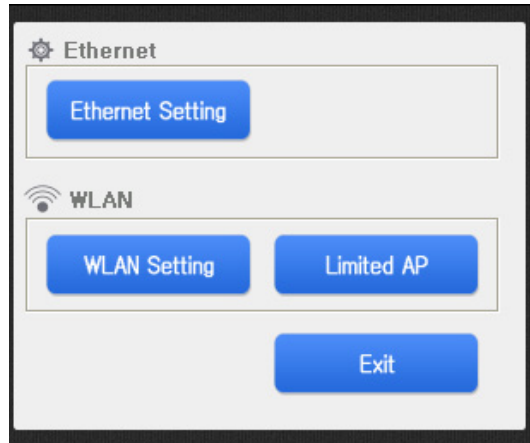


## 4.6. Network Setting Dialog (WLAN Interface)

### 4.6.6. Limited AP setting

Click “**Limited AP**” Button to in dialog.

When a message box is appeared, turn a printer on and then connect USB cable between PC and printer.



## 4.6. Network Setting Dialog (WLAN Interface)

Click “Search” button to start WLAN interface setting.

After a few seconds you can see the value of setting WLAN Interface as following image.

- AP NAME: WLAN Interface SSID
- PASSWORD: Password to connect WLAN Interface (Enter a password with 10 number digit or alphabetic value.)
- MAC ADDRESS : MAC address of WLAN Interface
- IP :WLAN Interface IP
- SUBNET : WLAN Interface Subnet
- GATEWAY :WLAN Interface Gateway
- PORT :WLAN Interface Port number (6001,only)

Enter unique AP name and 10-digit password and then set a network values (IP, SUBNET and GATEWAY etc ...).

**Ex) AP NAME : TEST\_AP**  
**PASSWORD : 1234567890**  
**SECURITY : WPA2-AES**  
**CHANNEL : 7**  
**IP : 192.168.0.254**  
**SUBNET : 255.255.255.0**  
**GATEWAY : 192.168.0.1**

Click the “Set Value” button; please wait for the completion of setting.

VCOM Port

COM11 Search

NETWORK SETTING

AP NAME	PASSWORD	SECURITY	CHANNEL

IP	SUBNET	GATEWAY

MAC ADDRESS	PORT

Set Value

Exit

VCOM Port

COM11 Search

NETWORK SETTING

AP NAME	PASSWORD	SECURITY	CHANNEL
song			7

IP	SUBNET	GATEWAY
192.168.0.254	255.255.255.0	192.168.0.1

MAC ADDRESS	PORT
00:08:DC:1C:D4:7B	6001

Set Value

Exit

VCOM Port

COM11 Search

NETWORK SETTING

AP NAME	PASSWORD	SECURITY	CHANNEL
TEST_AP	1234567890	WPA2-AES	7

IP	SUBNET	GATEWAY
192.168.0.123	255.255.255.0	192.168.0.1

MAC ADDRESS	PORT
00:08:DC:1C:D4:7B	6001

Set Value

Exit

Notice

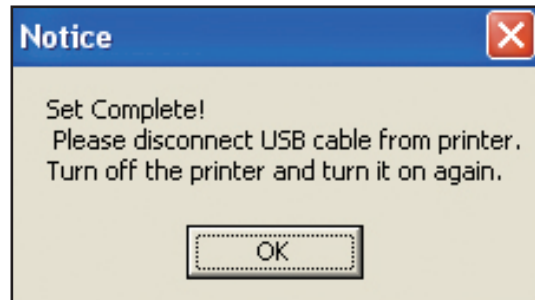
Click OK button and  
Please wait while the AP Setting is updating.

OK

## 4.6. Network Setting Dialog (WLAN Interface)

When the setting is complete, a message appears as shown in the figure.

Disconnect the USB cable from the printer, then turn the printer off and turn it on.



To make sure it is set up properly, try searching WLAN interface.

This figure shows result of connection to WLAN interface on iPhone.

**Please refer to the manual for how to set up a wireless network of wireless LAN equipment you are using.**



# SR80 Tool

User Guide

Version	Date
V1.00	14. 10. 17