



# GIANT & GCUBE Tool

User Manual V1.11

All specifications are subject to change without notice.

**SAM4S**

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# CHAPTER 1. INTRODUCTION

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It is integrated software for POS Printer GIANT-100, GIANT-150, GIANT PRO, Gcube-100 and Gcube-102 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. (<https://www.sam4s.com>)

## CHAPTER 2. SUPPORT DEVICE & INTERFACE

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# CHAPTER 2 SUPPORT DEVICE & INTERFACE

## DEVICES

- GIANT-100
- GIANT-150
- GIANT PRO
- Gcube-100
- Gcube-102

## FUNCTIONS

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

## INTERFACES

- RS-232c (Serial)
- 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. SAMPLE PRINT DIALOG

3.6. FIRMWARE DOWNLOAD DIALOG

3.7. NETWORK SETTING DIALOG



# CHAPTER 3 User Interface

## 3.1. Main Dialog

### Main Dialog

It is a Main Page of GIANT&Gcube Tool.



- Port Setup : Choose Device & Interface
- Logo Setup : Logo Image Downloading & Image printing
- User Setup : Changing variable custom settings
- Sample Print : Print some samples
- FW Download : Update printer's firmware
- Net Config : Changing printer's network setting
- Custom KB : Customize Kitchen Bell  
Refer to the KitchenBell\_Maker\_User\_Manual
- Exit



## 3.2. Port Setup Dialog

### Port Setup Dialog

You can select the device & Interface

#### 〈DEVICE LIST〉

- GIANT-100
- GIANT-150
- GIANT PRO
- GCUBE-100
- GCUBE-102

#### 〈INTERFACE LIST〉

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

The Port Setup Dialog box is shown with the following settings:

- Device: GIANT-100
- I/F: (empty)
- Port: (empty)
- BPS: (empty)
- Parity: (empty)
- Data Length: (empty)
- Flow Ctl: (empty)
- Stop Bit: (empty)
- IP Address: 192 . 168 . 0 . 254
- Port: 6001

Buttons: OK, Cancel

## 3.3. Logo Setup Dialog

### Logo Setup Dialog

You can download and printing images.

The Logo Setup Dialog box is shown with the following settings:

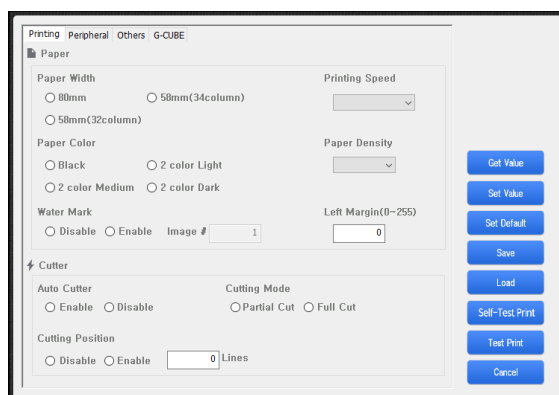
- Image List: (empty table)
- Image thumbnail: (empty area)
- Height Option: ☒ X 1
- Width Option: ☒ X 1
- NV Image Print: ☒ All Image
- Diverging point(-255~255): 128
- Top Logo Option: ☐ Enable, ☒ Disable
- Bottom Logo Option: ☐ Enable, ☒ Disable
- Justification: ☒ Left, ☐ Center, ☐ Right
- Print Logo at Power-on: ☒ Enable, ☐ Disable

Buttons: Open Files, Download, Remove, Remove All, Set Logo Option, Test Print, Close

## 3.4. User Setup Dialog

### User Setup Dialog

You can change variable custom settings only for Printer.



## 3.5. Sample Print Dialog

### Sample Print Dialog

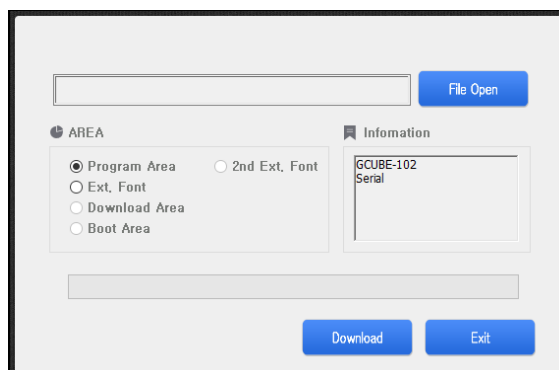
You can print some samples.



## 3.6. Firmware Download Dialog

### Firmware Download Dialog

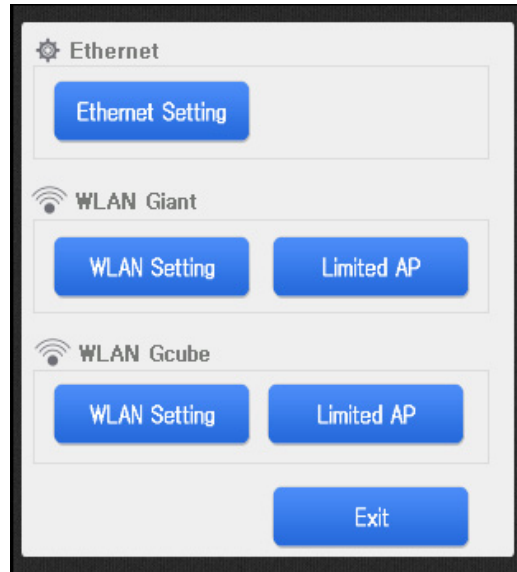
You can update printer's firmware.



## 3.7. Network Setting Dialog

### Net Config Dialog

You can change printer's network setting



### Ethernet Setting Dialog

You can change a printer's Ethernet setting.

The screenshot shows an 'Ethernet Setting Dialog' window. It features a table with 5 columns: IP, PORT, Subnet, Gateway, and Mac Address. Below the table is a 'NETWORK SETTING' section with input fields for IP, SUBNET, GATEWAY, and PORT (pre-filled with 6001). There is a checkbox for 'DHCP'. On the right side of the NETWORK SETTING section are three buttons: 'Search', 'Set Value', and 'Exit'.

IP	PORT	Subnet	Gateway	Mac Address

NETWORK SETTING

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

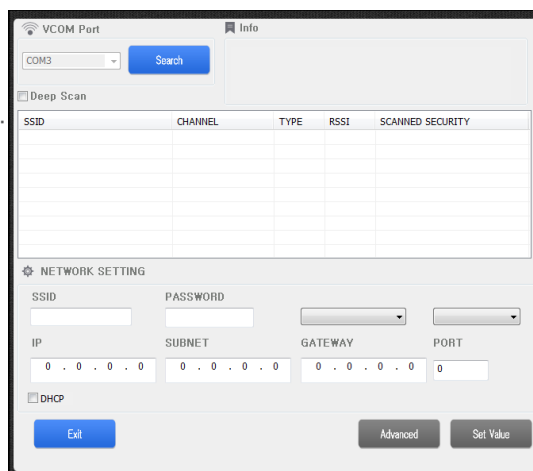
☐ DHCP

Buttons: Search, Set Value, Exit

## 3.8. Wireless Network Setting Dialog

### WLAN Setting Dialog

You can change a printer WLAN network setting for Infrastructure.

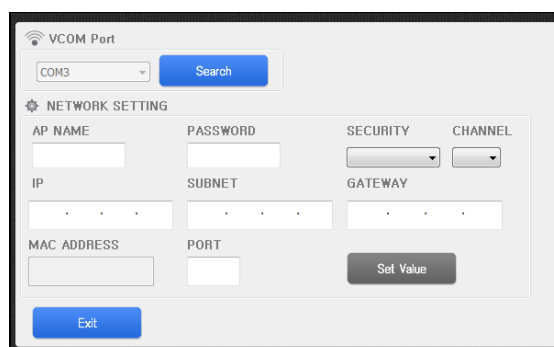


The WLAN Setting Dialog for Infrastructure mode features a 'VCOM Port' section at the top with a dropdown menu set to 'COM3' and a 'Search' button. Below this is a 'Deep Scan' checkbox. A table with five columns (SSID, CHANNEL, TYPE, RSSI, SCANNED SECURITY) is present but empty. The 'NETWORK SETTING' section includes fields for SSID, PASSWORD, IP (0.0.0.0), SUBNET (0.0.0.0), GATEWAY (0.0.0.0), and PORT (0). There is a DHCP checkbox and buttons for 'Exit', 'Advanced', and 'Set Value'.

SSID	CHANNEL	TYPE	RSSI	SCANNED SECURITY

### Limited AP Dialog

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



The Limited AP Dialog features a 'VCOM Port' section at the top with a dropdown menu set to 'COM3' and a 'Search' button. The 'NETWORK SETTING' section includes fields for AP NAME, PASSWORD, SECURITY, CHANNEL, IP, SUBNET, GATEWAY, MAC ADDRESS, and PORT. There is a 'Set Value' button and an 'Exit' button.

# 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 (Utility – GIANT)

### 4.4. FIRMWARE DOWNLOAD

(USB Memory Stick – GIANT)

### 4.5. FIRMWARE DOWNLOAD (Utility – Gcube)

### 4.6. FIRMWARE DOWNLOAD

(USB Memory Stick – Gcube)

### 4.7. SAMPLE PRINT DIALOG

### 4.8. NETWORK SETTING DIALOG (ETHERNET I/F)

#### 4.8.1. Ethernet Network Dialog

#### 4.8.2. Web Server

### 4.9. NETWORK SETTING DIALOG (WLAN I/F)

#### 4.9.1. WLAN Network Dialog

#### 4.9.2. Glossary of Terms

#### 4.9.3. Virtual COM Driver Preinstallation Tasks

#### 4.9.4. Install a Virtual COM Driver

(Windows 7, POSReady 7)

#### 4.9.5. Install a Virtual COM Driver

(Windows 10, Windows 10 IoT)

#### 4.9.6. Infrastructure mode setting

#### 4.9.7. Limited AP setting

#### 4.9.8. WLAN Tips

#### 4.9.9. WLAN factory reset

# 4 Description of each functions

## 4.1. Logo Setup

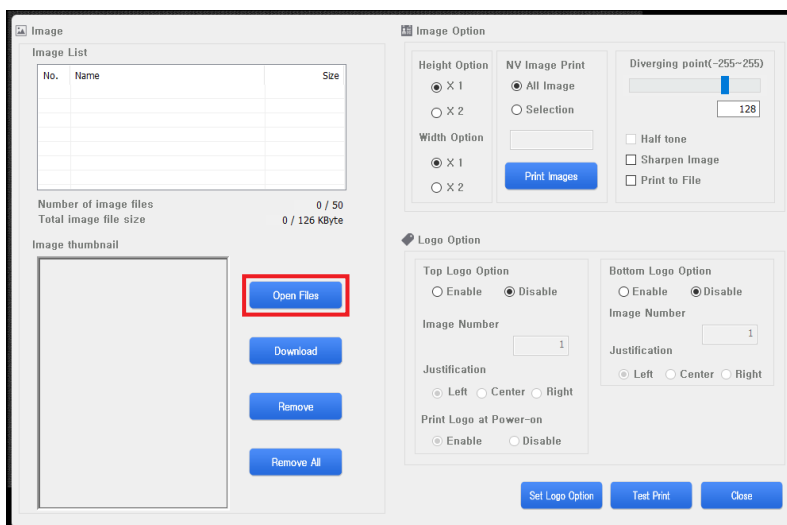
Logo Setup function can be used for image downloading to NV (Non-Volatile) memory of GIANT-100, GIANT-150, GIANT PRO, Gcube-100 and Gcube-102 for image printing from it.

### 1. General feature

- 1) Maximum memory capacity: 126Kbyte
- 2) Total logo count : Maximum 50
- 3) Black/White diverging point
- 4) Image data format : Changeable to a file
- 5) Image editing functions

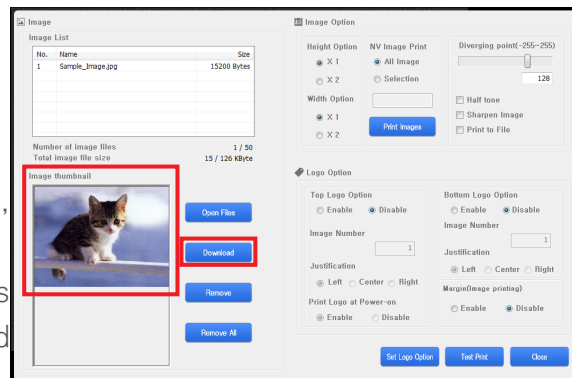
### 2. Logo registration sequence

- 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 Image** : 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 50. 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 when print NV image by utility.

**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

- 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.

### [Get Value]

It get values from printer.

### [Set Value]

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

### [Set Default]

Can reset to default values all of them.

### [Save]

Save all values to file(\*.USF).

### [Load]

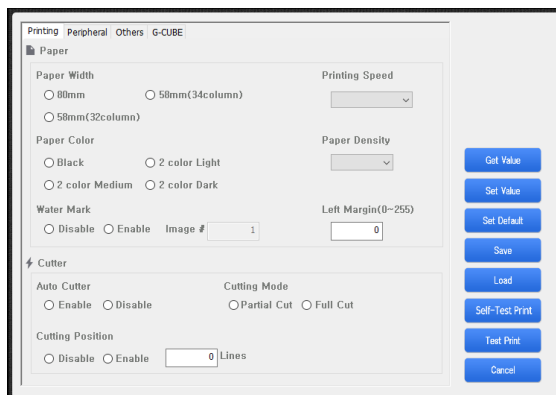
Load all values from file(\*.USF).

### [Self-Test Print]

Print 1st page of SELF-TEST.

### [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. Paper Type and Black Density (Default : Black / Medium)

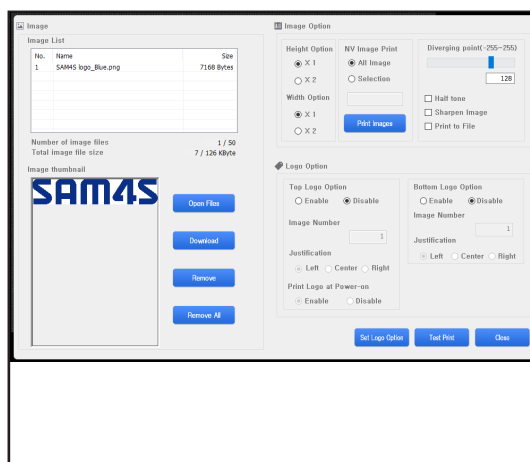
This is an option of the paper type. It can be set Black or 2Color. The second color can be red or blue by 2 color thermal paper type.

## 4.2. User setup

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

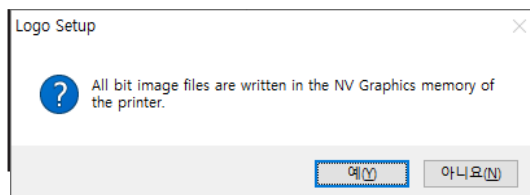
It is SAM4S Printer that prints background image on your receipt without any additional commands. You can use Watermark with Logo Downloader in GIANT&Gcube Tool. If you want to print background image, prepare the bitmap image which will be background. And then follow steps as below.

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.

The screenshot displays the printer's configuration interface with the following elements:

- Navigation Tabs:** Printing | Peripheral | Others | G-CUBE
- Paper Section:**
  - Paper Width:** Radio buttons for 80mm, 58mm(34column), and 58mm(32column).
  - Paper Color:** Radio buttons for Black, 2 color Light, 2 color Medium, and 2 color Dark.
  - Water Mark:** A red box highlights the ☐ Disable and ☒ Enable options, followed by an "Image #" input field containing the value "1".
  - Printing Speed:** A dropdown menu.
  - Paper Density:** A dropdown menu.
  - Left Margin(0~255):** An input field containing the value "0".
- Cutter Section:**
  - Auto Cutter:** Radio buttons for Enable and Disable.
  - Cutting Mode:** Radio buttons for Partial Cut and Full Cut.
  - Cutting Position:** Radio buttons for Disable and Enable, followed by a "Lines" input field containing the value "0".
- Action Buttons:** A vertical column of buttons on the right side, with a red box highlighting the "Set Value" button. The buttons are: Get Value, Set Value, Set Default, Save, Load, Self-Test Print, Test Print, and Cancel.

## 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 : Sam4s 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.

Sam4s Bell: Default sam4s bell

## 4.2. User setup

Melody 1 ~ 3: Three different melodies

Other Bell(DK1, DK2): Blend bell (Internal oscillation type)

Beep 1 ~ 3 : Short beep sound

### 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.

### N. Upside-Down Print (Default : Disable)

Change the direction of the print. Use this function when the printer is attached to a wall. If the WaterMark, Two Color, Top & bottom logo function is set, it can not be used.

## 4.2. User setup (Gcube Series only)

### N. Baudrate (Default : 115200bps)

Baudrate used during serial communication can be changed.

### O. Handshaking (Default : H/W)

Handshaking used during serial communication can be changed.

### P. Word Length (Default : 8bit)

Word Length used during serial communication can be changed.

### Q. Parity Check (Default : No)

Parity Check used during serial communication can be changed.

### R. Parity Select (Default : None)

Parity Select used during serial communication can be changed.

### S. Download Mode (Default : I/F)

Select whether to use USB memory for firmware downloads.

The screenshot displays the 'G-CUBE' tab in a software interface. At the top, there are four tabs: 'Printing', 'Peripheral', 'Others', and 'G-CUBE'. The 'G-CUBE' tab is active. Below the tabs, the settings are organized into sections:

- Baudrate:** A dropdown menu showing '115200bps'.
- Handshaking:** Two radio buttons: 'S/W' (unselected) and 'H/W' (selected).
- Word Length:** Two radio buttons: '7bit' (unselected) and '8bit' (selected).
- Parity Check:** Two radio buttons: 'Yes' (unselected) and 'No' (selected).
- Parity Select:** Two radio buttons: 'Even' (unselected) and 'Odd' (unselected).
- Download Mode:** Two radio buttons: 'USB Memory' (unselected) and 'I/F' (selected).

On the right side of the interface, there is a vertical stack of seven blue buttons: 'Get Value', 'Set Value', 'Set Default', 'Save', 'Load', 'Self-Test Print', and 'Test Print'. At the bottom right, there is a 'Cancel' button.

## 4.3. Firmware download (Utility – GIANT)

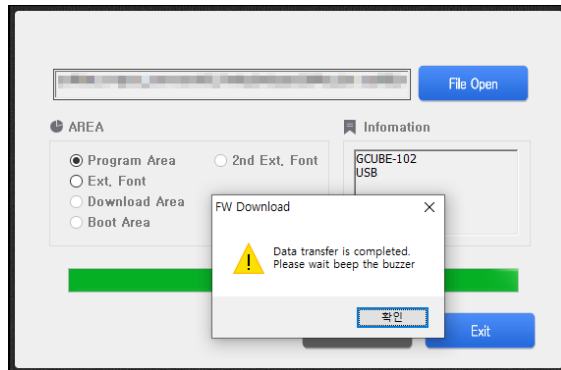
Firmware update sequences are below.

1. Remember folder directory with downloaded firmware file. (.E25)
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. (GIANT-100 / GIANT-150)
  - \* When printer interface is WLAN, please connect USB cable for F/W update.



4. Open the printer cover. **(Important)**
5. **Turn on printer with FEED button. (Important)**  
And hold the feed button with 2 times 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.
  - Firmware Upgrade : Select the “Program area”
  - Font Upgrade : Select the "Ext.Font"
  - \* If you want to chage the font after upgrading the firmware, please start again with Step 1.
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 'SELF TEST' and check the updated firmware version. Self-Test can be printed in the following ways.
- 1) Place the paper correctly in the paper tray, and close the printer's cover.
  - 2) Check if the power cable is properly connected to the printer.
  - 3) Turn on the printer while pressing the FEED button on the front.  
At this point, do not let go of the FEED button until you hear the boot tone and begin Self-Test printing.
  - 4) Release the FEED button when Self-Test printing starts.  
Check the Self-Test printout.



## 4.4. Firmware download (USB Memory Stick – GIANT)

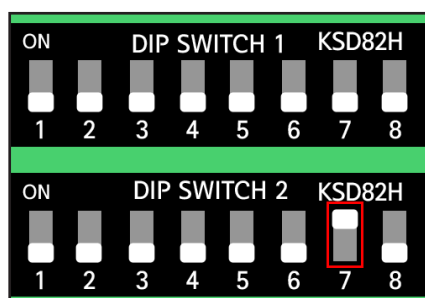
Firmware update sequences are below.

1. Format a USB memory stick to FAT or FAT32 file system. **(Important)**
2. Rename the received firmware file to "G100\_FW.E25" and copy it to the USB memory stick. (Do not put in folder–**Important**)
3. Turn off a printer. And then connect a USB memory stick to printer USB port. The GIANT series requires a "USB A to USB B" conversion adapter.
4. How to proceed depends on the presence of DIP S/W.

### # For models with dip switches:

(GIANT-100 / GIANT-150)

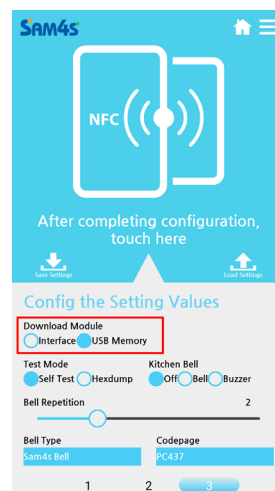
- 1) Push the number 7 of the dip switch 2.
- 2) Open the printer cover and turn on the power by pressing the FEED button.
- 3) Let go of the FEED button after 2 seconds



### # For models without dip switches:

(GIANT PRO)

- 1) Prepare an Android smartphone with NFC attached.
- 2) Install the GIANT PRO NFC utility from the Play Store.
- 3) Set "USB Memory" in "Download Module" in the App and apply the setting to NFC communication.
- 4) Refer to the manual of the App for details.
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. Firmware download (Utility – Gcube)

Firmware update sequences are below.

1. Remember folder directory with downloaded firmware file. (.E25)
2. Turn the printer off.
3. Check the cable connection between printer and your PC.

\* When printer interface is WLAN, please connect USB cable for F/W update.



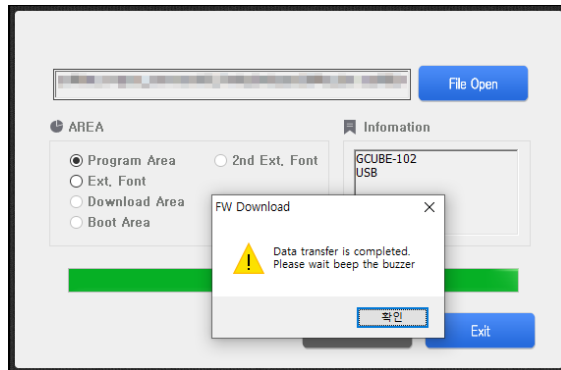
4. Open the printer cover. **(Important)**

### **5. Turn on printer with FEED button. (Important)**

And hold the feed button with 2 times 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.
    - Firmware Upgrade : Select the “Program area”
    - Font Upgrade : Select the “Ext.Font”
- \* If you want to change the font after upgrading the firmware, please start again with Step 1.
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 'SELF TEST' and check the updated firmware version. Self-Test can be printed in the following ways.
- 1) Place the paper correctly in the paper tray, and close the printer's cover.
  - 2) Check if the power cable is properly connected to the printer.
  - 3) Turn on the printer while pressing the FEED button on the front.  
At this point, do not let go of the FEED button until you hear the boot tone and begin Self-Test printing.
  - 4) Release the FEED button when Self-Test printing starts.  
Check the Self-Test printout.

## 4.6. Firmware download (USB Memory Stick – GIANT)

Firmware update sequences are below.

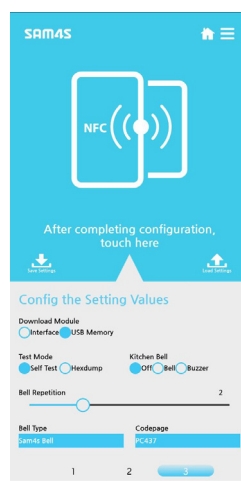
1. Format a USB memory stick to FAT or FAT32 file system. **(Important)**
2. Rename the received firmware file to "GCUBE\_FW.E25" and copy it to the USB memory stick. (Do not put in folder–**Important**)
3. Turn off a printer. And then connect a USB memory stick to printer USB port.
4. Change the USB mode from 'I / F' to 'U MEM' mode. There are three ways in total.

### # To change from memory switch mode:

- This method requires careful use. Please check the separate manual or contact customer service.
- Go to 'G-CUBE' tab in 'User Setup' and set 'Download Mode' to 'USB Memory'. Then click on the 'Set Value' button.

### # To change in App:

- 1) Prepare an Android smartphone with NFC attached.
- 2) Install Gcube NFC Utility from Play Store.
- 3) Set "USB Memory" in "Download Module" in the App and apply the setting to NFC communication.
- 4) Refer to the manual of the App for details.



5. Open the printer cover and press the power button while pressing the FEED button. After 2 beeps, we will proceed with the update.
6. If firmware update is done, printer will notify update completion with 5 times buzzer. (in surely case that download is succeeded). Then the printer turns off.
7. Do self-test for confirming the updated firmware version.

## 4.7. Sample Print Dialog

Here you can print some samples.

### 1. Receipt samples.

- Table No. 21
- Hideaway #2
- Rapport du jour

### 2. Image samples.

- Dog
- Cat
- Image

### 3. Barcode samples.

- UPC A, UPC E
- JAN13/EAN13
- JAN8/EAN8
- ITF (2 to 5)
- CODE 39, 93, 128
- QR Code (2D Barcode)
- PDF 417 (2D Barcode)

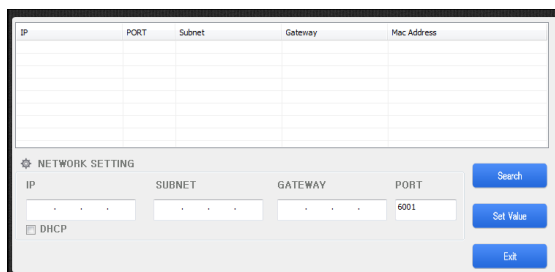


## 4.8. Network Setting Dialog (Ethernet Interface)

### 4.8.1. Ethernet Network Setting Dialog

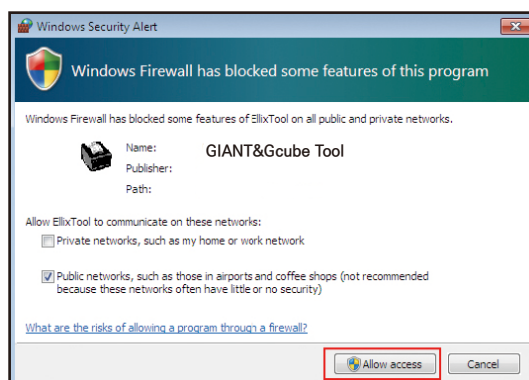
Here you can change the network settings for the printer. If you would like to change the network settings, please follow these steps.

1. Connect the LAN cable connected to the printer to the same network (router) as the PC or 1: 1 connection with the PC. In case of 1: 1 connection with PC, you need to set IP / Subnet / Gateway / DNS address manually.
2. Turn on printer normally.
3. Run the “Ethernet Setting Dialog.” Press the “Search Printer” button.

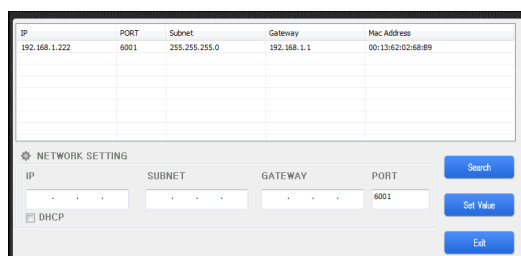


## 4.8. Network Setting Dialog (Ethernet Interface)

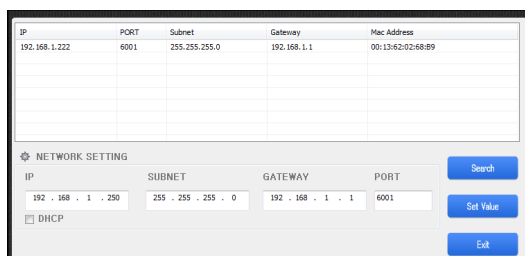
4. If you can see the “Windows Security Alert” message, Click a “Allow access” button (Windows 7/8/10).  
And retry the 3 Step.



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.)

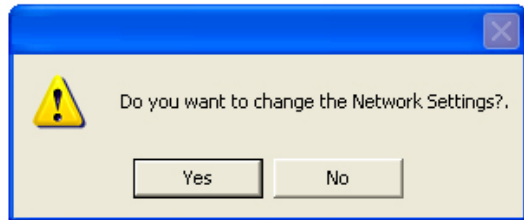


6. Choose one to change the IP. Enter the network settings you want (as shown). Finally, press the “Set Value” button.

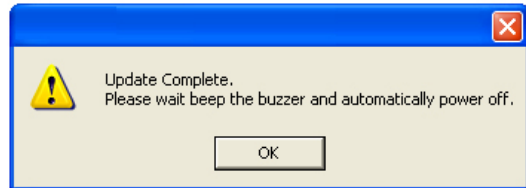


## 4.8. Network Setting Dialog (Ethernet Interface)

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.

## 4.8. Network Setting Dialog (Ethernet Interface)

### 4.8.2. Web Server

Only firmware version '1.20 or later' Ethernet interface supports the Web server.<sup>(1)</sup> Function provided by the Web server are as follows.

(Function that supports every version of firmware, may be different.)

1) GIANT-100 only

#### 〈Function〉

- Check the basic information(including IP network, printer status, etc).
- Printer Network Setting function.
- User Setup function.(including Kitchen bell, code page, etc).
- Change Web server password.
- Printer rebooting

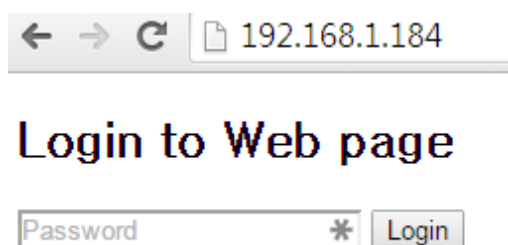
#### 〈Notice〉

- Web server, has been optimized to Chrome browser. In addition, in accordance with the state of the other browsers and network, screen display may be different.
- For reliable management, as far as possible, please be used in situations where you do not have printing.

#### [Login Screen]

In the address bar of your web browser: When “http//printer’s ip” to enter, you will be able to connect to the printer.

**Master password is 0821.**





## 4.8. Network Setting Dialog (Ethernet Interface)

### [General Information Screen]

Network information of the printer, the version of the firmware, you will be able to check the status.

#### General Information

##### Network Information

Printer IP	192.168.000.254
Subnet Mask	255.255.255.000
Gateway	192.168.000.001
Port	6001
MAC Address	00.13.62.00.11.12

##### Printer Information

Printer Version	STD1.21
-----------------	---------

##### Check Status

Printer Status	IDLE
----------------	------

Refresh

### [TCP/IP Setting Screen]

You can change the network settings, such as the printer of IP. The changed setting is not apply till when you restart.

#### TCP/IP Setting

Printer IP	192.168.000.254
Subnet Mask	255.255.255.000
Gateway	192.168.000.001
Port	6001

Network Config

### [User Setup Screen]

You can change the basic code page, Kitchen Bell settings and receive buffer of the printer.

*After the setting, the printer will be restarted.*

#### User Setup

##### Kitchen Bell

Kitchen Bell Type	<input checked="" type="radio"/> Bell	<input type="radio"/> Melody 1	<input type="radio"/> Melody 2	<input type="radio"/> Melody 3
Kitchen Bell Times	3 times			
Kitchen Bell Output	<input type="radio"/> Board Buzzer	<input checked="" type="radio"/> Internal Bell		

##### Communication

Received Buffer Size	<input checked="" type="radio"/> 4 Kbyte	<input type="radio"/> 20 Kbyte	<input type="radio"/> 32 Kbyte	<input type="radio"/> 64 Kbyte
----------------------	--	--------------------------------	--------------------------------	--------------------------------

##### Printing

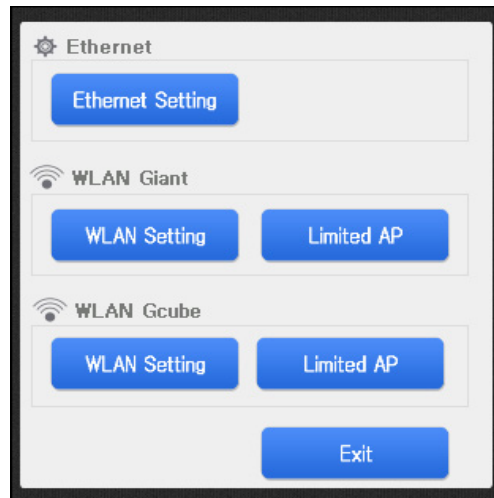
Default Code Page	PC437 (USA, Std Europe)
-------------------	-------------------------

Set Values

## 4.9. Network Setting Dialog (WLAN Interface)

### 4.9.1. WLAN Network Dialog

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



### 4.9.2. 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) nearly 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.

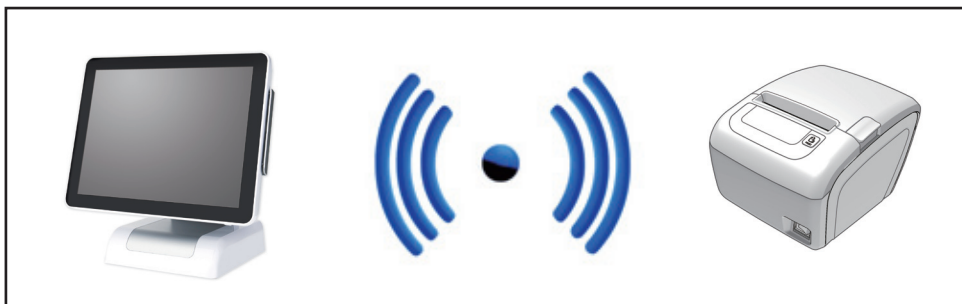
#### • Limited AP

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.

## 4.9. Network Setting Dialog (WLAN Interface)



〈Infrastructure〉



Limited AP

## 4.9. Network Setting Dialog (WLAN I/F)

### 4.9.3. Virtual COM Driver Preinstallation Tasks

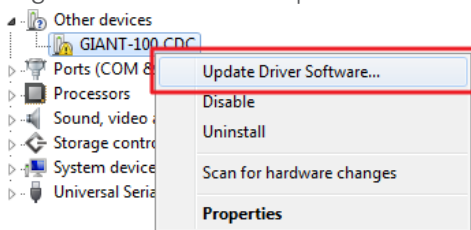
To set up the WLAN Interface, "Printer with USB communication changed to Virtual COM Port Mode" and "USB Cable" are required, and a virtual COM port driver for each printer must be installed.

The pre-installation tasks are as follows:

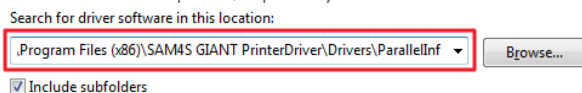
1. Change the 'USB' mode of the printer to 'VCOM'
2. Turn off the printer. Then connect the USB cable between the PC and the printer.
3. Run the printer driver installation program downloaded from the website or included in the CD.
4. When the installation screen to select a model appears, click the 'Cancel' button in the bottom right corner. The printer driver installation will not proceed.
5. Check the location where the 'Virtual COM Port' driver is installed in the printer driver folder on the drive where Windows is installed (Mostly drive C)
  - 32bit : C:\Program Files\SAM4S 'Printer Name' PrinterDriver\Drivers\ParallelInf
  - 64bit : C:\Program Files (x86)\SAM4S 'Printer Name' PrinterDriver\Drivers\ParallelInf
6. You are ready to install the Virtual COM Port driver.

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

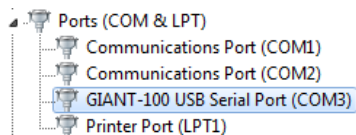
1. Turn on the printer.
2. In the Device Manager window, "Product Name CDC" will be displayed in "Other Devices".
3. Right-Click and click 'Update Driver Software'.



4. For the driver path, specify the 'ParallelInf' folder in the driver folder.



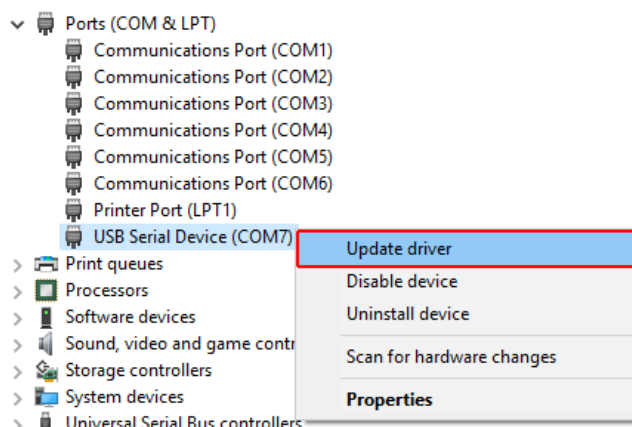
5. Check if the 'Virtual COM Port' is installed properly.



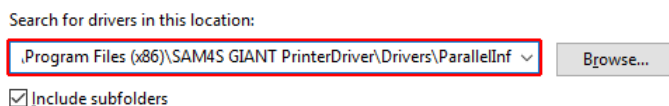
## 4.9. Network Setting Dialog (WLAN I/F)

### 4.9.5. Install a Virtual COM Driver (Windows 10, Windows 10 IoT)

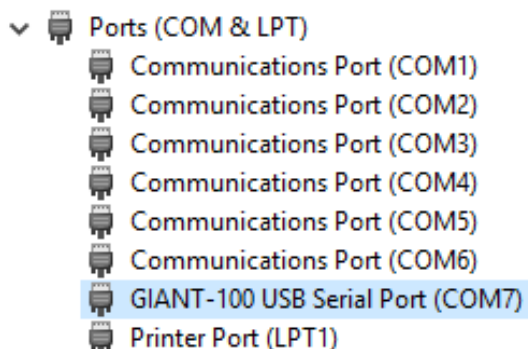
1. Turn a printer off.
2. It should be recognized as a 'USB Serial Device' in the 'Port' item in the Device Manager of Windows.
3. Right-click and click 'Update Driver'.



4. For the driver path, specify the 'ParallelInf' folder in the drive folder. And finish the installation.



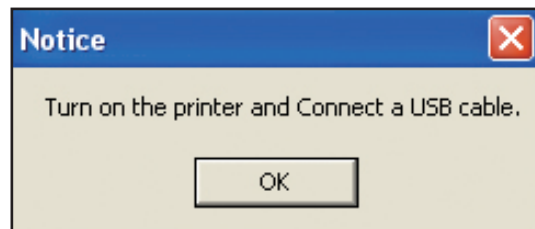
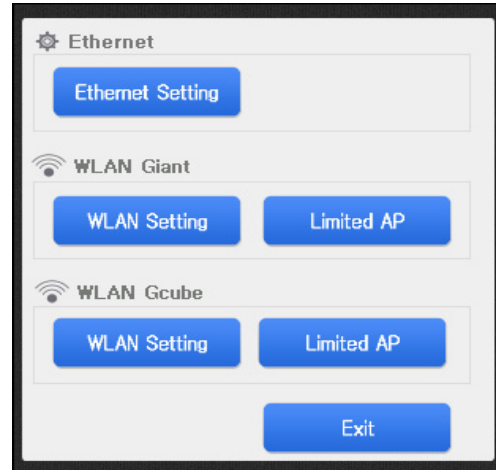
5. Check if the 'Virtual COM Port' is installed properly.



## 4.9. Network Setting Dialog (WLAN I/F)

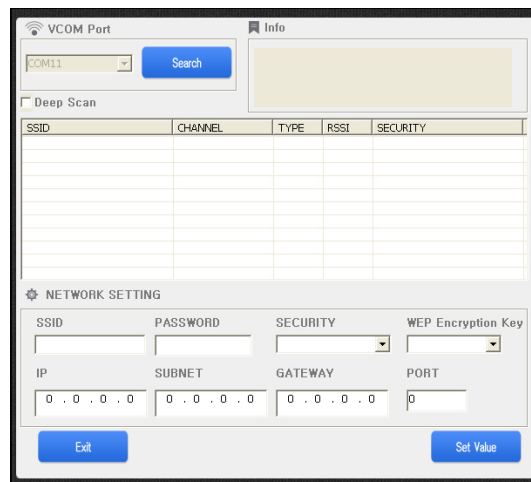
### 4.9.6. Infrastructure mode setting

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



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

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



## 4.9. Network Setting Dialog (WLAN I/F)

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

SSID	CHANNEL	TYPE	RSSI	SECURITY
song	1	Infra	OOO	Open
BONG	1	Infra	OO	WEP
JYW_WIFI	5	Infra	OO	WPA2
Evan 2.4G	2	Infra	OOO	WPA2
106F3F61AA38-1	1	Infra	OO	Open
Tabby-Demo	1	Infra	OO	Unknown
8H@P	5	Infra	OO	WPA2
SAMHS	6	Infra	OO	WEP
Tabby-Demo	7	Infra	OOO	WPA2-Mixed
security	5	Infra	OO	Open

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

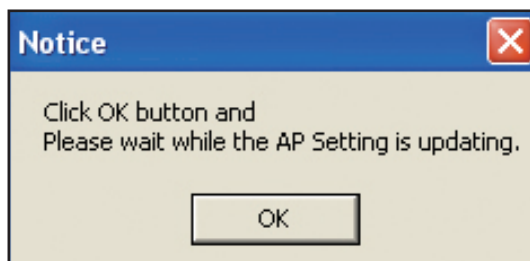
If you need a password for connection, enter a PASSWORD.

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

SSID	CHANNEL	TYPE	RSSI	SECURITY
song	1	Infra	OOO	Open
Evan 2.4G	2	Infra	OOO	WPA2
Tabby-Demo	7	Infra	OOO	WPA2-Mixed
butterbong	8	Infra	OOO	WPA2
iptimekk	11	Infra	OOO	Unknown
BONG	1	Infra	OO	WEP
JYW_WIFI	5	Infra	OO	WPA2
106F3F61AA38-1	1	Infra	OO	Open
Tabby-Demo	1	Infra	OO	Unknown
8H@P	5	Infra	OO	WPA2

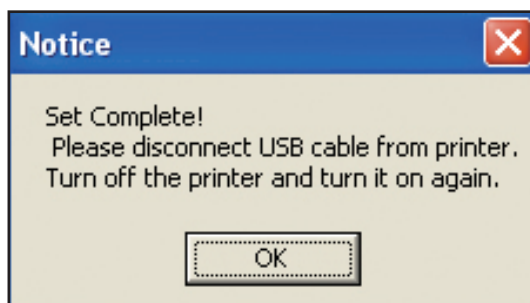
## 4.9. Network Setting Dialog (WLAN I/F)

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.

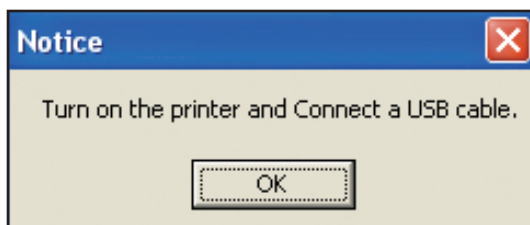
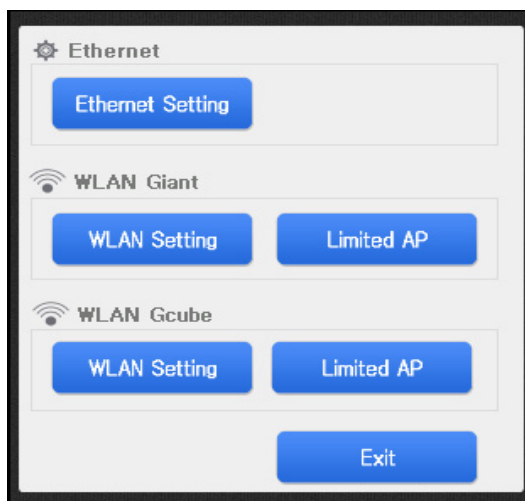


## 4.9. Network Setting Dialog (WLAN I/F)

### 4.9.7. 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.



## 4.9. Network Setting Dialog (WLAN I/F)

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 ...).

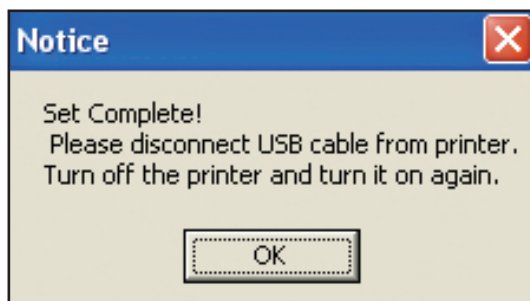
**Ex) AP NAME : TEST\_AP**  
**PASSWORD : 1234567890**  
**SECURITY : WPA2-AES**  
**CHANNEL : 7**  
**IP : 192.168.0.254**  
**SUBNET : 255.255.255.0**  
**GATEWAY : 192.168.0.1**

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

## 4.9. Network Setting Dialog (WLAN I/F)

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.



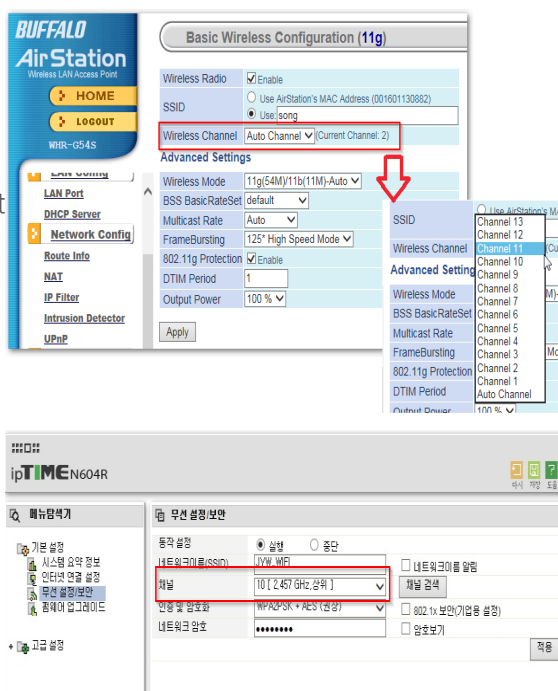
## 4.9. Network Setting Dialog (WLAN I/F)

### 4.9.8. WLAN Tips

The following content is the WLAN tips. Please reference.

Q : Printer reaction is too slow, or ping time value is too large.

A : Please try to move closer the physical distance to the WLAN interface and AP router. If there is no improvement, Please try to change the current channel of the wireless LAN channel (Wireless Channel) to another channel in the router settings. The following is an example of the router settings.



Q : WLAN settings are not saved in Infrastructure mode. The self-test sheet is not display before saved network settings.

A : Is encryption method of router that you are trying to connect is WEP? WEP is an older encryption scheme is vulnerable to security. Also, the router operating in abnormal mixed mode, there is a possibility that WLAN configuration is not performed. The recommended encryption method is WPA system. Even as it's inconvenient, please change the router settings to WPA for security.

## 4.9. Network Setting Dialog (WLAN I/F)

Q : My AP is not detected in Infrastructure mode.

A : Please try to move close to the distance of the AP and the printer. Also, please make sure that radio frequency band of the AP is 2.4GHz. WLAN interface, does not support the AP frequency of 5GHz.

### 4.9.9. WLAN factory reset

To initialize the WLAN interface, please proceed as follows:  
(Only for GIANT Series)

1. Turn on the printer. And, wait for 10 seconds.
2. Press 3 times per second the RESET button on the back of the printer.



3. Then, LINK LED will blink 3 times.
4. Turn off the printer

# GIANT & GCUBE Tool

User Guide – Ver 1.11

Version	Date
V1.00	14. 06. 14
V1.01	14. 09. 18
V1.02	14. 10. 02
V1.03	14. 12. 22
V1.04	15. 08. 23
V1.05	17. 04. 25
V1.06	19. 01. 18
V1.07	19. 02. 19
V1.08	19. 06. 03
V1.09	19. 06. 23
V1.10	19. 09. 06
V1.11	19. 11. 22