## **TP50 Tool**

#### User Guide

All specifications are subject to change without notice.



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## CHAPTER 1. INTRODUCTION





# INTRODUCTION

It is integrated software for POS PrinterTP50 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





# SUPPORT DEVICE & INTERFACE

#### DEVICES

• TP50

#### 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**

- 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





# **User Interface**

## 3.1. Main Dialog

#### Main Dialog

It a Main Page of TP50 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

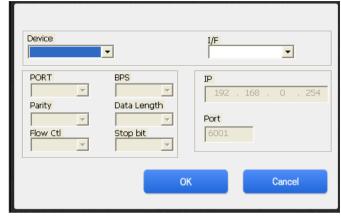
You can select the device & Interface

#### <DEVICE LIST>

-TP50

#### <INTERFACE LIST>

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



## 3.3. Logo Setup Dialog

#### Logo Setup Dialog

You can download images and printing images.

Image Image List	19969999999999999999999999999999999999	Previ	8W	
No. Name		Size Open Files Download		
		Remove All		
📓 Image Option		Logo Option		
Height Option	NV Image Print	Top Logo Option	Bottom Logo Option	
C X 1	All Image	Image Number	Image Number	
C X 2 Width Option	C Selection	Justification	Justification	
X 1	Dist	🖸 Left 🦰 Center 🥂 Right	Center CRight	_
C X 2	Print Images	Print Logo at Power-on	Set Logo Option Test Print	Close

## 3.4. User Setup Dialog

#### User Setup Dialog

You can change variable custom settings only for Printer.

Printing Peripheral Others	
Paper Width F 6 80mm 6 58mm((32Column) 6 58mm(30column)	Printing Speed
	Left Margin(0~255)
C Disable C Enable Image # 0	O Set Value
Auto Cutter Cutting Mode	
Cuttin Position	Cancel

## 3.5. Firmware Download Dialog

#### Firmware Download Dialog

You can update printer's firmware.

	File Open
AREA	📕 Infomation
🕫 Program Area	TP50
C Ext, Font	Serial
C Download Area	
C Boot Area	

## 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.

р	PORT	Subnet	Gateway	Mac Address	ID
NETWORK S	SETTING				
					_
NETWORK S	SETTING SUBNE	T	GATEWAY	PORT	Search
IP	SUBNE				Search
			GATEWAY	PORT 6001	_
IP	SUBNE				Search Set Value
IP	SUBNE				_
IP	SUBNE				_

## 3.7. Network Setting Dialog

#### WLAN Setting Dialog

You can change a printer WLAN network setting for Infrastructure.



#### Limited AP Dialog

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

VCOM Port		
	Search	
✿ NETWORK SET	FING	
AP NAME	PASSWORD	SECURITY CHANNEL
		<b>•</b>
IP	SUBNET	GATEWAY
MAC ADDRESS	PORT	
		Set Value
Exit		

## CHAPTER 4. Description of each functions

- 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

# CHAPTER Description of each functions

## 4.1. Logo Setup

Logo Setup function can be used for image downloading to NV (Non-Volatile) memory of TP50 or for image printing from it.

- 1. General feature
  - 1) Maximum memory capacity: 128Kbyte
  - 2) Total logo count : Maximum 255
- 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
- You can select option with/without Header as a numbering value of the logo. It is printed on top of logo image.

#### 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.

#### Printing Peripheral Others Paper Paner Width Printing Speed C 80mm C 58mm((32Column) -C 58mm(30column) Paner Color C Black C 2 color Light C 2 color Medium C 2 color Dark Water Mark Left Margin(0~255) C Disable C Enable Image # 0 4 Cutter Auto Cutter Cutting Mode C Enable C Disable C Partial Cut C Full Cut Cuttin Position C Disable C Enable Lines

#### [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 printer that prints background image on your receipt without any additional commands. You can use Watermark with OXHOO Image Logo Downloader in to TP50 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.

No.	Name oxhoo.bmp	66	Size 294 Bytes	Open Files	oxt	00	
				Download Remove Remove All	• · · u		
🖺 Ima	ge Option		<b>₽</b> Log	o Option			
C Widt	X 1	V Image Print • All Image • Selection Print Images	C I Imagi Justil C I Print I	Logo Option Chable C Disable A Number Cation Logo at Power-on Chable C Disable	e C Imay Just Set Inc	om Logo Option Enable © Disabl je Number ification Left © Center © D Option Test P	Right
Los	jo Setup						
6			iloo oro i	written in the	NV Graph	co momoru (	of the pr

- 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.

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.

Printing Peripheral Others		-
Paper		
Paper Width	Printing Speed	
C 80mm C 58mm((32Column)	•	
C 58mm(30column)		
Paper Color		
C Black C 2 color Light		
C 2 color Medium C 2 color Dark		
Water Mark	Left Margin(0~255)	
C Disable C Enable Image # 1	0	Set Value
+ Cutter		Set Default
Auto Cutter Cutting Mode	9	
C Enable C Disable C Partial Cu	ut 🕐 Full Cut	Test Print
Cuttin Position		Cancel
🖸 Disable 👩 Enable 🚺 🚺 Lines		Cancel

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.

	Hideaway #2 6040 Cedar Ave S semount, MN 5568 (952)	
04/15/11 8:28 pm	Order # Customer #	
Sales Perso	n:	
Al Fakher 2 1 @		13.99*
	Sub-Total:	13.99
	Tax[7.125]:	
	Total:	
	Total Paid: Change:	0.00
Thank		

# oxhco

- 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.
  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.
- 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.

- Remember folder directory with downloaded firmware file.
- 2. Turn the printer off.
- 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.
- 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.)

- 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.

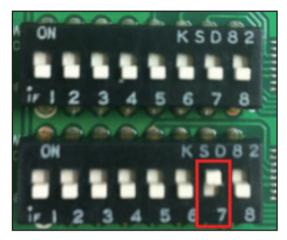
	File Open
🗳 AREA	📕 Infomation
🗭 Program Area	GIANT-100
C Ext, Font	Serial
C Download Area	
C Boot Area	

## 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.



- 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. Ethernetl 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.
- Run the "Ethernet Setting Dialog." Press the "Search Printer" button.

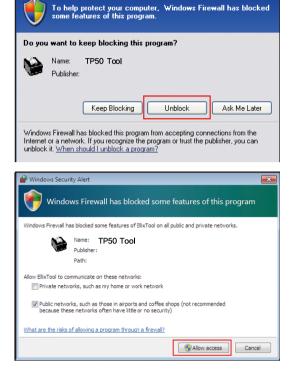
IP	PORT	Subnet	Gateway	Mac Address	ID
∲ NETWORK :					
NETWORK S IP	SETTING	T	GATEWAY	PORT	Search
IP	SUBNE				Search
	SUBNE	T	GATEWAY	PORT	_
IP	SUBNE				Search Set Value
IP	SUBNE				_
IP	SUBNE				_

## 4.5. Network Setting Dialog (Ethernet Interface)

😻 Windows Security Alert

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.



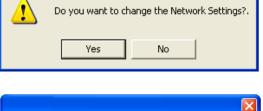
- 5. If you can see the "The Printer has finished searching." message, detected the printer's network settings appear. (If you can not see any list, Please check cable and network.)
- Choose one to change the IP. Enter the network settings you want (as shown). Finally, press the "Set Value" button.

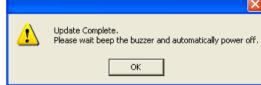
IP	PORT	Subnet	Gateway	Mac Address	
192.168.0.254	6001	255.255.255.	0 192.168.0.	1 00:13:62:01:	3E:D6
NETWORK SET	ring				
IP	SUBNE	Т	GATEWAY	PORT	Search
	· ·			6001	
DHCP	1		1		Set Value
Difer					
				Launch Browser	Exit



## 4.5. Network Setting Dialog (Ethernet Interface)

- 7. You can see the "Do you wand 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.

#### 4.6.1. WLAN Network Dialog

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



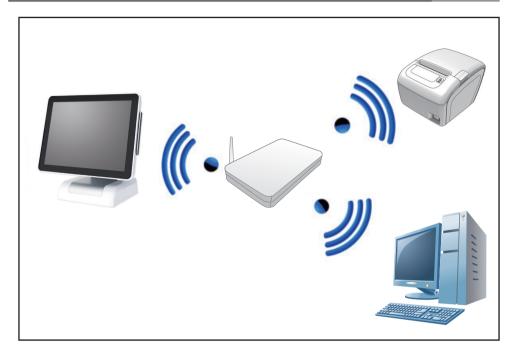
#### 4.6.2. Glossary of Terms

• 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) 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.

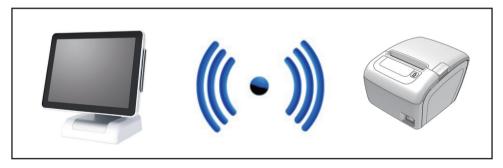
#### Infrastructure

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.



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

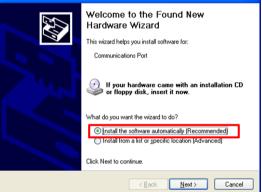
Virtual COM port driver must be installed when WLAN Interface sets up. During installation, Please do these steps are following.

- 1. Turn a printer off.
- Install OXHOO Printer Driver for installing virtual COM driver automatically. (OXHOOPrinterDriverInstall erV2.0.0a.exe 2014/04/15). Please refer to the manual of Windows Printer Driver Installer.

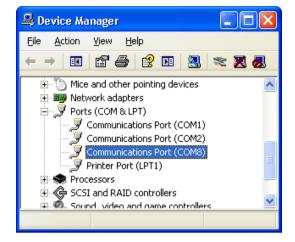
(Select a connection type of the printer: ETHERNET CONNECTION Create aTCP/ IP Printer Port :The value for use later)

- 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)"





 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 OXHOO Printer Driver for installing virtual COM driver automatically.

(OXHOOPrinterDriverInstallerV2.0.0a.exe) Please refer to the manual of Windows 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.
- When Virtual COM port is installed properly in Windows, this balloon appears as shown.



- When the installation is completed, run the "Device Manager" for checking a New Virtual COM port number.
- Ports (COM & LPT)
   Communications Port (COM1)
   Communications Port (COM2)
   Communications Port (COM3)
   Communications Port (COM4)
   Communications Port (COM5)
   Communications Port (COM6)
   Communications Port (COM7)
   Printer Port (LPT1)
   Processors

#### 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.

	🕸 Ethernet			
	Ethernet Setting			
	🗑 WLAN			
	WLAN Setting	Limited AP		
		Exit		
lotice		×		
Turn on the printer and Connect a USB cable.				
ОК				

Click "**Search**" button to search AP list. When message box is appeared, click "OK" button.



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
  - 000 : Strong signal

🐨 VCOM Port		📕 Info		
COM11	Search	SSID : song IP : 192.168. GW : 192.161 MAC : 00:08:	3.0.1	ecurity : OPEN SN : 255.255.255.0 PORT : 6001 78
SSID	CHANNEL	TYPE	RSSI	SECURITY
song	1	Infra	000	Open
BONG	1	Infra	00	WEP
JYW_WIFI	5	Infra	00	WPA2
Evan 2.4G	2	Infra	000	WPA2
106F3F61AA38-1	1	Infra	00	Open
Tabby-Demo	1	Infra	00	Unknown
하슬라	5	Infra	00	
SAM4S	6	Infra	00	WEP
Tabby-Demo	7	Infra	000	
security	5	Infra	00	Onen
NETWORK SETTING				
SSID	PASSWORD	SECUR	ITY	WEP Encryption Key
	]			• I • I
IP	SUBNET	GATEW	AY	PORT
192 .168 . 0 .254	255 .255 .255 .	55 .255 .255 . 0 192 .168 . 0 . 1 6001		
Exit				Set Value

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.* 

TCOM Port	F	Info			
COM11 💌	Search	SSID : song IP : 192.168 GW : 192.16 MAC : 00:08:	.0.254 8.0.1		)
SSID	CHANNEL	TYPE	RSSI	SECURITY	1
song	1	Infra	000	Open	
Evan 2.4G	2	Infra	000	WPA2	
Tabby-Demo	7	Infra	000	WPA2-Mixed	
butterbong	8	Infra	000	WPA2	
iptimekk	11	Infra	000	Unknown	
BONG	1	Infra	00	WEP	
JYW_WIFI	5	Infra	00	WPA2	
106F3F61AA3B-1	1	Infra	00	Open	
Tabby-Demo	1	Infra	00	Unknown	
하슬라 <	5	Infra	00	WPA2	
NETWORK SETTI SSID     Song	NG PASSWORD	SECUR	ITY	WEP Encryptio	on Ke
IP	SUBNET	GATEW	ΆΥ	PORT	_
192.168.0.254	255.255.255.0	192.1	68.0.	1 6001	
Exit				Set Va	ue





Turn off the printer and turn it on again.

OK

#### 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.

& Ethernet			
Ethernet Setting			
THE WLAN			
WLAN Setting	Limited AP		
	Exit		
Notice	<u> </u>		
Turn on the printer and Connect a USB cable.			
ОК			

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 SET	TING	
AP NAME	PASSWORD	SECURITY CHANNEL
		<b>•</b>
IP	SUBNET	GATEWAY
· · ·	· · ·	· · ·
MAC ADDRESS	PORT	
		Set Value
Exit		







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.

#### Notice

Set Complete!

Please disconnect USB cable from printer. Turn off the printer and turn it on again.



🖬 olleh 🛜	오후 2:26	78 %		
Wi-Fi Networks	TEST_AP			
Forget this Network				
IP Address				
DHCP	BootP	Static		
IP Address	19	192.168.0.124		
Subnet Mas	<b>k</b> 25	5.255.255.0		
Router		192.168.0.1		
DNS	19	192.168.0.123		

## TP50 Tool

User Guide