

Network Connection Manual XT Series

Industrial Label Printer Ver. 2.01

http://www.bixolon.com

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1. Introduction

This Network manual provides information on the connection of network with the Industrial Label printer. We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

2. Precaution

 The printer has to be within 100m(Outdoor) from AP(Access point) to connect WLAN. Although 35m is able to communicate in door, WLAN could be affected by environment to be shorten. The wireless LAN signal strength can be checked by LCD Display.

Icon	Status	Description
7.	ON	Disconnected to the AP(Access Point)
<i>[</i> 4	OFF	No WLAN Interface
	ON	Connect to an AP. Signal strength : 4
?	ON	Connect to an AP. Signal strength : 3
Ŷ	ON	Connect to an AP. Signal strength : 2
•	ON	Connect to an AP. Signal strength : 1

- 2) The maximum separating distance may be shortened if transmission obstacles, such as cement walls, are present
- 3) If a device (such as a microwave oven, wireless LAN, etc.) that uses the same frequency is present, transmission may be interrupted. Separate the printer and Bluetooth-enabled device from such interrupting devices by a distance of at least 5m.

3. How to Connect

Both Ethernet and WLAN can be configured through the printer's LCD Display, USB, Ethernet or WLAN interface.

When you want to change the Ethernet or WLAN of the printer, the network settings of the host(PC, PDA, etc) and Ethernet or WLAN of the printer must configured properly configured so that communication can be established.

3-1 Connecting Printer

1) USB

Connect the USB cable to the printer

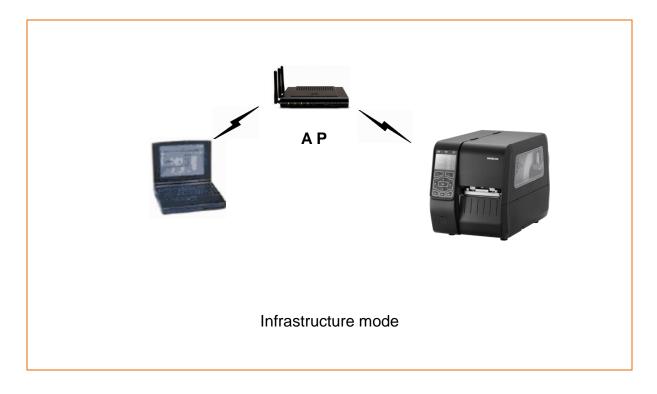
2) Ethernet

Connect the LAN cable to the printer

A direct cable or cross cable can be connected to the Hub or Host for use.

3) WLAN

Connect to the AP(Access Point) configured in Infrastructure mode in order to connect to the Wireless network.



3-2 Check Network Setting

• Setting information can be checked by selecting [Interface] – [Ethernet] or [WLAN] in the initial menu of LCD or the information can be printed out by selecting [Interface] – [Interface Info]

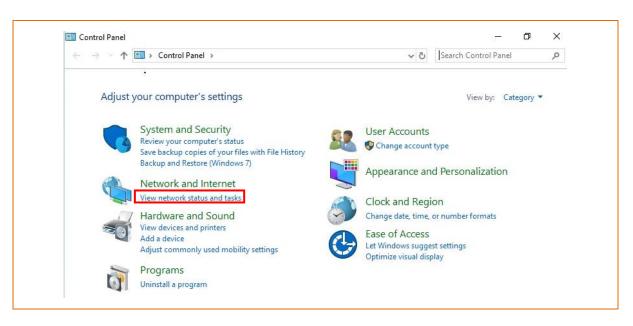
£	2018-01-01 12:00 PM
XT-Series V01.00	Setting Interface
READY	Sensor Files
LAN : 192.168.192.123 WLAN : 192.168.100.123	JiJToolsInfo
♣ 奈 ≱ ∎ ℕ ፁ Interfa	2018-01-01 12:00 PM
	ace
Serial	
Ethernet	
WLAN	
Bluetooth	
Interface Info	
< Back	V V Select

3-3 Initial Wireless LAN Connection(Windows 10)

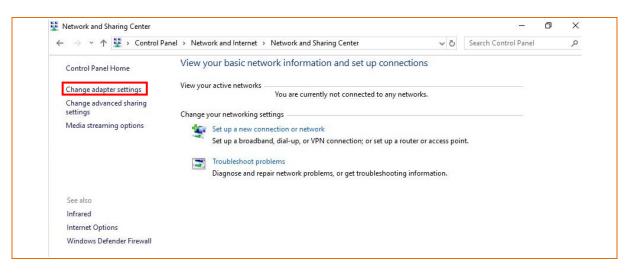
- If a wireless LAN utility program is installed, set it using the program or exit the wireless program and set it in the following orders.
- 1) Search the "Control Panel" and then Click the "Open".

All Apps Documents	s Settings Photos More 🗸	Feedback ····
命 Best match		
Control Panel Desktop app	•	
Apps		
Settings	>	Control Panel
Intel® Graphics Control	rol Panel >	Desktop app
NVIDIA Control Panel	C Open Recent System	
🛯 A 🛱 🔚 🌔	O	

2) Click the "View network status and tasks".



3) Click the "Change adapter settings".



Click the "WiFi Properties".

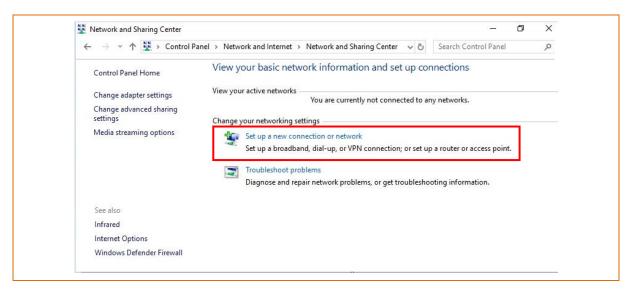
4) Select Internet Protocol Version 4(TCP/IPv4), and then click Properties.

Wi-Fi Properties X
Networking
Connect using:
Intel(R) Wireless-AC 9260 160MHz
Configure This connection uses the following items:
✓ Client for Microsoft Networks ✓ ✓
Microsoft Network Adapter Multiplexor Protocol Microsoft LLDP Protocol Driver
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

5) Set the IP settings as shown below, and then click OK.

Internet Protocol Version 4 (TCP/IPv4) Properties	×
General Alternate Configuration		
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.		
) Obtain an IP address automatica	ally	
Use the following IP address:		
IP address:		
Subnet mask:		
Default gateway:		
Obtain DNS server address auto		
O Use the following DNS server ad Preferred DNS server:	aresses:	
Alternate DNS server:		
Alternate DND server:	· · ·	
Validate settings upon exit	Advan	ced
	ОК	Cancel

6) Click the "Set up a new connection or network".



7) Click the "Manually create a wireless network".

2 <u>—</u> 2		×
Next	Car	ncel
	Next	Next Car

8) 'Network name' = PRINTER_XXXXXX
'Security type' = Open, Check "Start this connection automatically", "Connect even if the network is not broadcasting" and then click the "Next".

Enter information for the wireless network you want to add Network name: PRINTER_E0101B
Network name: PRINTER E0101B
Security type: No authentication (Open)
Encryption type: Vone
Security Key:
 Start this connection automatically Connect even if the network is not broadcasting Warning: If you select this option, your computer's privacy might be at risk.

9) Click the "Close".

	-	□ ×	
Manually connect to a wireless network			
Successfully added PRINTER_E0101B			
→ Change connection settings Open the connection properties so that I can change the settings.			
			1
			-
		Close	

10) After completing configuration, PRINTER_XXXXXX network will be created.

	Panel > Network and Internet > Network and Sharing C	Center 🗸 진	Search Control Panel	Q
Control Panel Home	View your basic network information a	nd set up conr	ections	
Change adapter settings	View your active networks	20		
Change advanced sharing settings	Unidentified network Public network	Access typ Connectio	e: No network access ns: Wi-Fi (PRINTER_E0101	B)
Media streaming options				
	Change your networking settings			
	Set up a new connection or network Set up a broadband, dial-up, or VPN conr Troubleshoot problems Diagnose and repair network problems, o			

When the printer is set to the default value(Soft-AP mode, SSID: PRINTER_XXXXX), it will automatically connect.

4. Configuration

4-1 LAN Setting Values

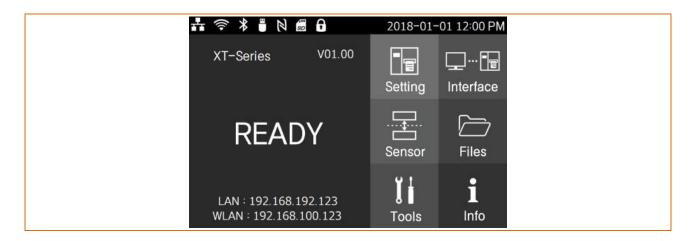
Classification	ltem	Remarks	Input Range	
Home		LAN setting status display		
	Printer Name	Printer name	0~32 letters	
	Printer Port	TCP Raw port that the printer can use	0~32767 integer (except 1,23,25, 80,443,3318)	
System	User Name	ID to use for ftp, telnet, web-server log-in	1~32 letters	
	User Password	Password to use for ftp, telnet, web-server log-in	1~32 letters	
	Confirm Password	Confirm Password	1~32 letters	
	TELNET	Set whether to use Telnet	Enable/Disable	
Protocol	FTP	Set whether to use FTP	Enable/Disable	
	SMTP	Set whether to use SMTP	Enable/Disable	
	Inactivity Time	TCP connection hold time	0~3600 integer(Sec)	
Network	IP Assignment Method	IP assignment method	DHCP/Manual	
Network	IP Address	Printer IP	IP Address	
	Subnet Mask	Subnet mask	IP Address	
	Gateway	Default Gateway	IP Address	
	DNS	Domain name server IP	IP Address	

4-2 WLAN Setting Values

Classification	Item	Remarks	Input Range
System		WLAN setting status display	
	Connection Type	Wireless LAN operating mode	Infrastructure/Adhoc/Soft AP/WiFi Direct
Wireless	SSID	ID of the AP to connect	1~32 letters
	WLAN Security Type	Wireless LAN authentication method	open, wpa1/2-psk
	Connection Type	ConnectionType status display	
	DHCP	Set whether to use DHCP	ON/OFF
Network	IP	Printer IP	IP Address
	Subnet	Subnet mask	IP Address
	Gateway	Default Gateway	IP Address
	DNS	Domain name server IP	IP Address
Traffic		Traffic status display	
	CA	Server Certificate Authentication	
Security	Client	Client Certificate Authentication	
	Key	Client Certificate Key	
	Account	Account	
	Reboot	Reboot	
Etc	Firmware Update	Firmware update for Wlan	
	TCP Port	TCP Port	
	Inactivity Time	TCP connection hold time	
	XPM Server	Seting for XPM Server	

4-3 LCD Display

• Ethernet / WLAN settings can be configured by selecting [Interface] in printer LCD Display menu.



4-3-1 Ethernet Configuration

Ethernet settings can be configured by selecting [Ethernet] in printer LCD Display menu.

After inputting appropriate IP address, Subnet Mask and Gateway for network environment in use, select [Select] button to save the configuration.

£	0	2018-01-	01 12:00 PM
	Interface		
Serial			
Ethernet			
WLAN			
Bluetooth			
Interface Info			
< Back		~	Select
£	Ð	2018-01-	01 12:00 PM
	Ethernet		
IP Protocol			Static IP
IP Address		192.168	8.100.52
Subnet Mask		255.2	55.255.0
Gateway	1	92.168	.100.254
MAC	0	0:15:94:	00:00:00

4-3-2 WLAN Configuration

WLAN settings can be configured by selecting WLAN in printer LCD Display menu.

After inputting appropriate IP address, Subnet Mask and Gateway for network(WLAN) environment in use, select [Select] to save the configuration.

よう 🖁 🖇 🧊 🖾	Ð	2018-01-01 12:00 PM
	Interface	
Serial		
Ethernet		
WLAN		
Bluetooth		
Interface Info		
< Back		🗸 Select
ま 🗢 🖇 🗒 🖾	Û	2018-01-01 12:00 PM
₽	0 WLAN	2018-01-01 12:00 PM
♣ 奈 ⊁ ≞ № Channel		2018-01-01 12:00 PM 6
Channel	WLAN	6
Channel Network	WLAN	6 Soft AP
Channel Network ESSID	WLAN	6 Soft AP INTER_E0023B

4-4 Configuration Tool

Install Net Configuration Setup_[version] and execute.

[Note]

- You can download from our home page the Net Configuration Setup_[version]. (www.bixolon.com)

(Search the "Net Configuration" and then Click the "Open")

Best match					
Net Configuration Desktop app		\rightarrow		<i>@</i>	
Search suggestions					
$\mathcal P$ net configuration - See	e web results	>	N	Jet Configuration Desktop app	1
			_		
			Open		
			Run as administr Open file locatio		
			Pin to Start		
		-12	Pin to taskbar		
			Uninstall		
R.					
3					
w.					
2		8	– 6	A	
 ₽ P net configuration 		目	a (ĉ	9	
2		اتا	e	9	
₽ P net configuration	figuration Tool V		e é	9	
net configuration		3. 2. 8	ti (ĉ	•	
ret configuration Net Con	LAN/WLAN	3. 2. 8	e é	9	
	LAN/WLAN	3. 2. 8		Refresh	
P net configuration Net Con	LAN/WLAN	3. 2. 8 WLAN (Advanced)		Refresh	
net configuration Net Con	LAN/WLAN	3. 2. 8 WLAN (Advanced)	vser	Refresh	
P net configuration Net Con	LAN/WLAN	3. 2. 8 WLAN (Advanced)	vser	Refresh	
net configuration Net Con	LAN/WLAN	3. 2. 8 WLAN (Advanced)	vser	Refresh	
Net configuration Net Con	LAN/WLAN	3. 2. 8 WLAN (Advanced)	vser	Refresh	
Net Con	LAN/WLAN	3. 2. 8 WLAN (Advanced)	vser	Refresh	
Net Con	VWLAN Configuration Configuration IP Address	3. 2. 8 WLAN (Advanced) Caunch Bro Mac Address	vser	Refresh	
Net Con	AN/WLAN Defiguration Configuration IP Address reter Network Information IAC Address: P Address:	3. 2. 8 WLAN (Advanced) Caunch Bro Mac Address 0.015:94:E0:10:18 192:168.1.1 (DHCF	vser De System Name	Refresh	
Net Con	ANAWLAN Defiguration Configuration IP Address IP Address	3. 2. 8 WLAN (Advanced) Caunch Bro Mac Address	vser De System Name	Refresh	
Net configuration	VWLAN Configuration WLAN Configuration Configuration IP Address IP Address IC Address: Ubnet Mask:	3. 2. 8 WLAN (Advanced) Mac Address Mac Address 00.15;94:E0.10.18 192.168.1.1 (DHCF 255.255.255.0	vser De System Name	Refresh	

4-4-1 Ethernet Configuration

1) When you press the Search button, the printer connected to the network will be shown in the list.

And Walk-Nation Refresh # IP Address Mac Address System Name Type # IP Address Mac Address System Name Type Printer Network Information	LAN/WLAN				
# IP Address Mac Address System Name Type Image: I		1	vser 😥	Refresh	
MAC Address: 00:15:94:E0:10:1B IP Address: 192:168:1:1 (DHCP) Subnet Mask: 255:255:255:0 Gateway: 192:168:1:2		(12)	System Name	Туре	
MAC Address: 00:15:94:E0:10:1B IP Address: 192:168:1:1 (DHCP) Subnet Mask: 255:255:255:0 Gateway: 192:168:1:2					
MAC Address: 00:15:94:E0:10:1B IP Address: 192:168:1:1 (DHCP) Subnet Mask: 255:255:255:0 Gateway: 192:168:1:2					
MAC Address: 00:15:94:E0:10:1B IP Address: 192:168:1:1 (DHCP) Subnet Mask: 255:255:255:0 Gateway: 192:168:1:2					
MAC Address: 00:15:94:E0:10:1B IP Address: 192:168:1:1 (DHCP) Subnet Mask: 255:255:255:0 Gateway: 192:168:1:2					
MAC Address: 00.15.94:E0.10.18 IP Address: 192.168.1.1 (DHCP) Subnet Mask: 255.255.255.0 Gateway: 192.168.1.2	Printer Natural Inform	tion			
Subnet Mask: 255,255,255,0 Gateway: 192,168,1.2					
Gateway: 192.168.1.2	IP Address:	192.168.1.1 (DHCP			
	Subnet Mask:	255.255.255.0			
Port Number: 9100	Gateway:				
	Port Number:	9100			
	Language		\sim	Close	

2) The following warning message may pop up if the firewall is installed. Select [Allow access], and then retry the Search operation.

🔗 Windows Secu	rity <mark>Alert</mark>		×
Window app	ws Defen	der Firewall has blocked some features of this	
Windows Defender i private networks.	Firewall has b	locked some features of NetConfiguration Tool on all public and	
	Name:	NetConfiguration Tool	
25	Publisher:	BIXOLON Co., Ltd.	
	Path:	$C{:} \forall\!\forall bixolon \forall\!\!\forall net \ configuration \ tool \forall\!\!\forall net configuration{.} exe$	
Allow NetConfigurat	tion Tool to co	mmunicate on these networks:	
Private netwo	orks, such as	my home or work network	
		hose in airports and coffee shops (not recommended ften have little or no security)	
What are the risks o	of allowing an	app through a firewall?	
		Allow access Cancel	

3) Select the printer from the list and press the [Configuration] button, and then the following window for setting Ethernet settings will pop up.

Configuration Eaunch Browser Refresh # IP Address Mac Address System Name Type 1 192.168.1.1 00.15.94.60:ED:38 - Wired 1 192.168.1.1 00.15.94.60:ED:38 - Wired Printer Network Information - - - - MAC Address: 00.15.94:60:ED:38 - - - Printer Network Information - - - - MAC Address: 00.15.94:60:ED:38 - - - IP Address: 192.168.1.1 - - - Subnet Mask: 2255.255.0 - - - Gateway: 192.168.1.254 - - - Pot Number: 9100 - - - -
1 192.168.1.1 00:15:94:60:ED:38 Wred Image: Printer Network Information Image: Printer Network Information Image: Printer Network Information MAC Address: 00:15:94:60:ED:38 Image: Printer Network Information IP Address: 192.168.1.1 Image: Printer Network Information Subnet Mask: 255:255:255:0 Image: Printer Network Information Gateway: 192.168.1.254 Image: Printer Network Information
Printer Network Information MAC Address: 00:15:94:60:ED:38 IP Address: 192.168:1.1 Subnet Mask: 255:255:255.0 Gateway: 192.168:1.254
MAC Address: 00:15:94:60:ED:38 IP Address: 192:168:1.1 Subnet Mask: 255:255:255:0 Gateway: 192:168:1.254
MAC Address: 00:15:94:60:ED:38 IP Address: 192.168.1.1 Subnet Mask: 255:255:255.0 Gateway: 192.168.1.254
MAC Address: 00:15:94:60:ED:38 IP Address: 192.168.1.1 Subnet Mask: 255:255:255.0 Gateway: 192.168.1.254
MAC Address: 00:15:94:60:ED:38 IP Address: 192.168.1.1 Subnet Mask: 255:255:255.0 Gateway: 192.168.1.254
MAC Address: 00:15:94:60:ED:38 IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.254
IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.254
Subnet Mask: 255.255.255.0 Gateway: 192.168.1.254
Gateway: 192.168.1.254
Port Number: 9100

4) Enter the proper IP Address, Subnet Mask, and Gateway for the currently used network, and then press the Save button to save the settings.

	Net Configuration Tool V3.	2. 8	
	Network Configuration		
	IP Address Assignment		
	O DHCP (Dynamic Host Conf	iguration Protocol)	
	Manual		
	IP Address:	192 . 168 . 1 . 1	
	Subnet Mask:	255 . 255 . 255 . 0	
	GateWay:	192 . 168 . 1 . 254	
	Port Number Port Number: 9100	[0 - 32767]	
	Inactivity Time		
	Inactivity Time: 0	[0 - 3600] sec.	
		Save Cancel	
г			
	Lopy	right (C) BIXOLON Co., Ltd. All rights reserved.	

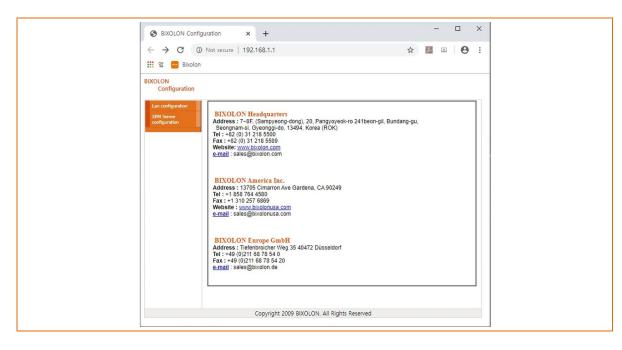
5) Select the printer from the list and press the [Launch Browser] button, and then the Login window will pop up.

Configuration	Launch Brov	vser 😥 i	Refresh
# IP Address	Mac Address 00:15:94:60:ED:38	System Name	Type Wired
1 192.168.1.1	00.15.94.60.ED.38	+	Wired
Printer Network Information	ı		
MAC Address:	00:15:94:60:ED:38		
IP Address:	192.168.1.1		
Subnet Mask:	255.255.255.0		
Port Number:	3100		
	1	\sim	Close
Subnet Mask: Gateway: Port Number:	192.168.1.254 9100	~	

6) Enter the Username and Password set for the printer, and then click OK. (Default settings are Username: "admin", Password: "password")

192.168.1.1	×	+	- 🗆 X
$\leftrightarrow \rightarrow \mathbf{C}$ (1)			
u 📑 Bixolon	Sign in		
	http://192.16	88.1.1 tion to this site is not private	
	Username	admin	
	Password		
		Sign in Cancel	
			1

7) When you log in, you will see the web browser for changing the Ethernet settings as shown below.



4-4-2 WLAN Configuration(After initial Wireless LAN Connection)

1) When you press the Search button, the printer connected to the network will be shown in the list.

	AN/WLAN	WLAN (Advanced)			
()	Configuration	Launch Brow	ser 😥	Refresh	
#	IP Address	Mac Address	System Name	Туре	
-					
Prin	er Network Informatio	n			
	AC Address:	00:15:94:E0:10:1B			
	Address:	192.168.1.1 (DHCP)			
	bnet Mask:	255.255.255.0 192.168.1.2			
	teway: rt Number:	9100			
		1			
	Language		\times	Close	
			1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		

2) Select the printer from the list and press the [Configuration] button, and then the following window for changing the WLAN settings will pop up.

	vwLan				
	AN Configuration		1.0		
<u>S</u>	Configuration	Launch Brow	ser 😥	Refresh	
#	IP Address	Mac Address	System Name	Туре	
1	192.168.1.1	00:15:94:E0:10:1B	XT5-40	Wireless	
Printer	Network Information	1			
MAC	Address:	00:15:94:E0:10:1B			
IP Ad	dress:	192.168.1.1			
	et Mask:	255.255.255.0			
Gater		192.168.1.2 9100			
Port	lumber:	3100			
	Language	1	S	Close	
	ranguage]	\sim		

3) Enter the proper IP Address, Subnet Mask, and Gateway of the currently used network, and then click the [Save] button to save the settings.

Net Configuration Tool V3, 2. 8
Solution Network Configuration
IP Address Assignment O DHCP (Dynamic Host Configuration Protocol) Manual
IP Address: 192 168 1 1 Subnet Mask: 255 255 0 GateWay: 192 168 1 2
Port Number . Port Number: 9100 [0 - 32767]
Inactivity Time Inactivity Time: 10 [0 - 3600] sec.
System Name System Name: XT5-40
Save Cancel
Copyright (C) BIXDLON Co., Ltd. All rights reserved.

 Select the printer from the list and press the [Launch Browser] button, and then the Login window will pop up. Enter the Username and Password set in the printer, and click OK. (Default settings are Username: "admin", Password: "password")

🗾 LAN/WLAN 👂	VVLAN (Advanced)			$\leftarrow \rightarrow G$ (i)	192.168.1.1		☆	ト	-	Θ
LAN/WLAN Configuration Configuration IP Address 1 192.168.1.1	Launch Bro Mac Address 00:15:94:E0:10:18	System Name XT5-40	Refresh Type Wireless	👯 앱 🧰 Bixolon	Sign in http://192.14 Your connec Username Password	58.1.1 tion to this site is not private admin				
Printer Network Informa	tion					Sign in Car	ncel			
MAC Address:	00:15:94:E0:10:1B									
IP Address:	192.168.1.1									
Subnet Mask:	255.255.255.0									
Gateway:	192.168.1.2									
Port Number:	9100									
Language		×	Close							

5) When you log in, you will see the web browser for changing the WLAN settings as shown below.

< → C ①	Not secure 192.168.1.1	l.		☆ 💹 🖂 🕴	e :
탭 🧧 Bixolon					
<u>System</u>	System	ion to property configure and maintain your c	unformation		
Wireless	r leuse use me len nuvigu	on to property consult and maintain your c	inguraion.		
Network	Firmware	42.20			
Traffic	MAC Address	00:15:94:e0:16:af			
Security	Operation Mode	AP			
Etc	SSID	PRINTER_E016AF			
	Channel	6 [2437 MHz]			
	IP Address	192.168.1.1			
	Subnet Mask	255.255.255.0			
	Gateway	192.168.1.2			

4-4-3 WLAN Configuration(USB Cable)

1) Click [WLAN(Advanced)] tab to configure WLAN settings using USB cable

Net Configuration Tool V3. 2. 8
LAN/WLAN DE WLAN (Advanced)
WLAN Configuration 1 2
Connect Close
Copyright (C) BIXOLON Co., Ltd. All rights reserved.

2) Click [Connect] after printer connection via USB to configure Network(WLAN), Protocol, System, Authentication..etc. for network environment in use. Then click[Save] to save the settings.

				variceuj	
			WLAN Configuration		1 2
			WLAN Basic Configuration	PRINTER_E	01010
			SSID WLAN Mode	Soft AP	01018
			WLAN Security Configura		
			Authentication	Open Syste	m
vice Connection			Encryption	None	
			IP Address Configuration		
nterface Type		· · · · · · · · · · · · · · · · · · ·	IP Address Assignment IP Address	Manual 192, 168, 1, 1	
Kendee Type		Connect	Subnet Mask	255, 255, 255,	0
USB		Connect	GateWay	192, 168, 1, 2	0
			Port Number	9100	
0.05044		Cancel	System Information		
C SERIAL		Lancel	Firmware Version	02,03(4205)	
			Update Date	Jun 22 2018	
			MAC Address	00:15:94:E0:	:10:1B
Communication Setting			 System Configuration System Name 	×T5-40	
			User ID	admin	
Port: BIXOLON X	(T5-40 ~		User Password	*******	
			Inactivity Time (Sec.)	10	
			Wireless frequency	2,4GHz/5GH	Iz (Priority: 2,4GHz)
			Save Save Save Save as a file	Disconnect File Open	Close
			Copyright (C) BIXOLON Co., Ltd.	All rights reserved.

4-5 Web Browser

• Enter the IP address of the printer in the address bar, and the following login window will pop up. Enter the Username and Password set for the printer, and then click [OK]. (Default setting values are Username: "admin", Password: "password".)

	🕘 http://192, 168, 1, 1/	
192.168.1.1	× +	- 🗆 ×
\leftrightarrow \rightarrow C ()	192.168.1.1	☆ 🗾 🗉 \varTheta :
🔢 ≌ Bixolon	Sign in http://192.168.1.1 Your connection to this site is not private Username admin Password Sign in Can	

When the Username and Password match the ones registered in the printer, the following window will be opened.

4-5-1 Ethernet Configuration Selection

Settings related to Home, System, Protocol, and Network(LAN) can be configured in this window.

S BIXOLON Config	X
	ration × +
: 앱 Bixolon	vor secure 192.106.1.1
BIXOLON	
Lan Grunn Configuration	BIXOLON Headquarters Address: 7-8F. (Sampyeong-dong), 20, Pangyoyeok-ro 241beon-gil, Bundang-gu, Seongnam-E, (Syeong-Ji-do, 13494, Korea (ROK) Tel: +22 (0) 31 218 5500 Fax: +24 (0) 21 20 5500 Website: www.bixdon.com e-mail: sales@bixdon.com BIXOLON America Inc. Address: 13705 Cimarron Ave Gardena, CA 90249 Fel: +1 858 74 4580 Fax: +310 257 6869 Website: www.bixdonusa.com e-mail: sales@bixdonusa.com BIXOLON Europe CmbH Address: Telembroicher Weg 35 40472 Düsseldorf Fax: +49 (0)211 68 78 54 0 Fax: +49 (0)211 68 78 54 0 e-mail: sales@bixdon de
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태 앱 Eixolon	
Configuration Home System	System Information
Protocol Network	Printer Name XT5-40 Printer Port 9100
	Protocol Information TELNET Disable FTP Disable
	SMTP Disable
	Network Information IP Assignment Method Manual Allocation
	IP ADDRESS 192.168.1.1
	·
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4-5-2 Wireless LAN Selection

Wireless, Network(WLAN), Traffic ,Security and ETC can be configured from this window.

 Configuration ← → C ○ N 	× +		☆	M = 0 :
11 앱 📒 Bixolon			4	
System Wireless Network Traffic Security Etc	Firmware MAC Address Operation Mode SSID Channel	tion to properly configure and maintain your configuration. 42 20 00.15.94.e0.16.af AP PRINTER_E016AF 6 [2437 MHz]		
	IP Address Subnet Mask	192.168.1.1 255.255.255.0		
	Gateway	192.168.1.2		

4-6 FTP

• The configuration files will be downloaded and uploaded to and from the current path. In the following case, the current path is "C:\Users\Public\Documents".

Enter "ftp Printer IP", and enter the User and Password set for the printer.



Enter the "Is" command to check the file name to download.

Select Command Prompt - ftp 192.168.1.1		×	
ftp> <mark>Is</mark> 200 ОК 150 LIST		^	
-rw 1 root root 833 XT5-40.config 226 LIST DONE ftp: 58 bytes received in 0.91Seconds 0.06Kbytes/sec.			
$ft_{P} > $			

Enter "get [Printer name].config" to download the configuration file.

Command Prompt - ftp 192.168.1.1	1	×	
ftp> get XT5-40.config 200 CK 150 RETR		^	
226 RETR DONE ftp: 833 bytes received in 1.08Seconds 0.77Kbytes/sec. ftp>_			

You can see that the "[Printer name].config" file is created in the corresponding directory.

Enter "put [Printer name].config" command if you want to upload the configuration file in the corresponding directory for the printer.

Command Prompt - ftp 192.168.1.1	177	×
ftp> put XT5-40.config 200 UK 150 STOR		^
226 STOR DONE ftp: 833 bytes sent in 0.00Seconds 833000.00Kbytes/sec.		

XT5-40.config File Edit Format View Help System Printer Name : XT5-40 User ID : admin Password : password Port: 9100 Protocol FTP Enable : 1 Telnet Enable : 1 HTTPS Enable : 0 SMTP Enable : 0 SMTP Port : 25 SMTP User : SMTP Password : SMTP Server : SMTP From : SMTP To : SMTP Interval(Sec): 3 DNS DNS: 168,126,63,1 Inactivity time InactivityTime : 0 Ethernet LAN DHCP Mode : 0 LAN IP Address : 192,168,192,123 LAN Subnet Mask : 255,255,255,0 LAN Gateway : 192,168,192,254 WLAN WLAN Mode : infra WLAN Adhoc Channel : 6 WLAN Authenticatino : open WLAN Cryptograph : none WLAN EAP Mode : none WLAN EAP ID : WLAN EAP Password : WLAN ESSID : BIXOLON_adhoc WLAN WEP Key: 12345 WLAN PSK Key: mobile123 WLAN DHCP Mode : 0 WLAN IP Address : 192,168,1,1 WLAN Subnet Mask : 255,255,255,0 WLAN Gateway : 192,168,0,1

The contents of the [Printer name].config file are as follows.

* The format of the configuration file is "Configuration item: Setting value". Uploading a file that doesn't have the format shown above will not change the setting values.

4-7 Telnet

Enter "telnet Printer IP".

Command Prompt		×
∷#Users#Public#Documents <mark>>telnet 192.168.1.1 </mark>		^

Enter the Username and Password set for the printer.

🔜 Telnet	192.168.1.1		-	×
Enter us	sername:	admin		^
Enter pa	assword:	-		

The screen related to the network configuration will then be displayed. You can select the menu to configure and edit the settings.

mairi 		 	
1. System	>>		
2. Protocol	>>		
3. Network	>>		
4. Wireless Lan	>>		
\$. Save and quit			
#. Quit			

4-8 SMTP

• The changes of the status of the printer are monitored, and a notification e-mail is sent to the registered administrators.

SMTP must be enabled to use the SMTP function. You can use the web browser, telnet, or ftp to enable the SMTP. (Refer to Configuration)

Using Web Browser

Connect to the printer web-server.(Enter the IP address of the printer in the address bar.) Select LAN configuration, and then select the Protocol tab.

Home	Function	Set-up
Protocol Network	TELNET	Disable •
	FTP	Disable
	SMTP	Enable Configuration
	3	SUBMIT

Click the Configuration button to display the following window.

SMTP	Set-up
SMTP User ID	userid@mail_server
SMTP Password	•••••
SMTP Server Name	mail_server
SMTP Port Number	25
From Address	userid@mail_server
To Address	administor@mail_server
Check Interval(Sec)	3
Paper Empty	OFF •
Cover Open	OFF •
Cutter Error	OFF •
Ribbon	OFF T
Calibration Error	OFF •
TPH Over Heat	OFF •
Paper Jam	OFF •
	SUBMIT
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Check the SMTP setting values

SMTP User ID	Check the ID registered to the mail server
SMTP Password	Enter the password for the corresponding User ID
SMTP Server	Enter the mail server(Example: Domain or mail server IP)
Name	* Check DNS settings when entering domain
SMTP Port	Enter SMTP port
Number	Default value of the SMTP Port is 25
From Address	Enter the e-mail address to be shown at the mail receiver
To Address	Enter the e-mail address to receive
Check Interval	Enter the period to check the printer status
Check Interval	Entered value will be effective in second unit
Den en Ematu	ON – E-mail is sent out when there is no paper
Paper Empty	OFF – Paper empty status is not checked
	ON – E-mail is sent out when the printer cover is open
Cover Open	OFF – Printer cover status is not checked
Cutter Error	ON – E-mail is sent out when there is error in the auto cutter
Cutter Error	OFF – Auto cutter error is not checked
Near End	ON – E-mail is sent out when the printer is almost out of paper
NearEnd	OFF – Paper remaining status is not checked
Ribbon	ON – E-mail is sent out when there is no ribbon
noddin	OFF – Paper empty status is not checked
Calibration Error	ON – E-mail is sent out when calibration is failed
	OFF – Doesn't check auto paper setting errors
	ON – Check TPH when overheated
TPH Over Heat	OFF – Doesn't check TPH overheat
Depar lam	ON – E-mail is sent out when paper is jammed
Paper Jam	OFF – Doesn't check paper jam

5. Ethernet / WLAN Test by using Windows Test Page

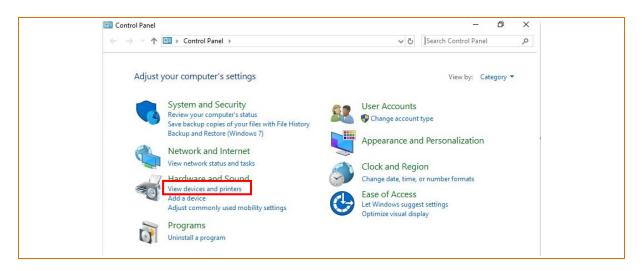
You can use the Windows printer driver as shown below when there is no test program.

1) Install the Windows printer driver.

[Note]

- You can download from our home page the Windows driver. (www.bixolon.com)

2) Click the "View devices and printers" from the Control Panel.



3) Select and right click on the corresponding model, and then select "Printer properties."

8	Set	e what's printing <u>a</u> s default printer nting preferences	
BIXOLON	<u>P</u> rin	nter properties	
XT5-40	Cre	ate <u>s</u> hortcut	
	- 10 - I.	no <u>v</u> e device ubleshoot	
	P <u>r</u> o	perties	_

4) Select the "Ports" tab from the "Properties" window.

Printer Settings General Sh		Language			Command For	
General Sh	naring	Ports	Advanced	Colo	r Management	Security
3	BIXOLON	I XT5-40				
Location:						
Comment:						Ĩ
	BIXOLON	XL5-40CT				
Features Color: No			Paper	availabl	e:	
Double-sided: No Staple: Unknown Speed: Unknown Maximum resolution: 203 dpi		203 dpi	BIXOLON 1.5 x 1.0 (inch) BIXOLON 1.5 x 1.5 (inch) BIXOLON 1.5 x 2.0 (inch) BIXOLON 2.0 x 1.0 (inch) BIXOLON 2.0 x 1.5 (inch)			^
			references		Print Test F	

5) Click "Add Port..."

Printer Set	tings	Stocks	Languag	ge Barcode	Fonts	Command Fonts	About
General	Sha	aring	Ports	Advanced	Color	Management	Security
3	BIXC	DLON XT	5-40				
Print to t checked		owing p	ort(s). Doc	uments will p	orint to t	he first free	
Port LPT COI COI COI COI COI COI FILE	2: 1 3: 1 M1: 5 M2: 5 M3: 5 M4: 5	Descripti Printer P Printer P Serial Po Serial Po Serial Po Serial Po Print to F	ort ort rt rt rt	Printe	r		< >
A	dd Por	t		Delete Port		Configure Po	ort
Enabl	le bidire	ectional s	support			Comparent	

6) Select "Standard TCP/IP Port" and click "New Port..."

Printer Ports	×
Available port types:	
CX-D80U Port	
Standard TCP/IP Port	
New Port Type New Port	Cancel

7) Click the [Next] button in the "Add Standard TCP/IP Printer Port Wizard" window.

Add Standard TCP/IP Printer Port \	Nizard
	Welcome to the Add Standard TCP/IP Printer Port Wizard
	This wizard helps you add a port for a network printer.
	Before continuing be sure that: 1. The device is turned on. 2. The network is connected and configured.
	To continue, click Next.
	< Back Next > Cancel

8) Enter the IP address assigned to the printer in the "Printer Name or IP Address" field in the "Add Port" pop up window, and then click the [Next] button.

Enter the Printer Name or IP address, and a port name for the desired device. Printer Name or IP Address: 192.168.1.1	
Printer Name or IP Address: 192.168.1.1	
Port Name: 192.168.1.1	

[Note]

- Enter the same IP address entered during the installation of the interface card. Only enter the "Printer name or IP address."

9) Click the [Next] button in the "Additional Port Information Required" window.

Add Standard TCP/II	P Printer Port Wizard
	formation required Id not be identified.
1. The device is p	ice is of unknown type. Be sure that: roperly configured. 1 the previous page is correct.
	address and perform another search on the network by returning to the previous lect the device type if you are sure the address is correct.
Device Type	
 Standard 	Generic Network Card 🗸
⊖ Custom	Settings
	< Back Next > Cancel

[Note]

- Click the [Next] button to proceed without any changes.
- 10) Click the [Finish] button at the "Completing the Add Standard TCP/IP Printer Port Wizard" window.

Completin Printer Po	g the Add Standard TCP/IP rt Wizard
You have selecte	d a port with the following characteristics.
SNMP:	No
Protocol:	RAW, Port 9100
Device:	192.168.1.1
Port Name:	192.168.1.1
Adapter Type:	Generic Network Card
To convolute this	wizard, click Finish.

11) Click the "Cancel" button in the Printer Port window, closing the window.

Printer Ports	×
Available port types:	
CX-D80U Port Local Port	
Standard TCP/IP Port	
New Port Type New Port	Cancel

12) Click the "Configure Port..." button in the "Properties" window.

	ter Settings	Stocks				Command Fo		bout	
Ge	neral Sł	haring	Ports	Advanced	Color	Management	Sec	urity	
Pr	int to the fo			ocuments will p	print to th	ne first free			
	iecked port. Port	Descript	tion	Printe	er ::			^	
	COM1:	Serial Po							
1.15		Serial Po							
10	COM3:	Serial Po							
Ē	COM4:	Serial Po	ort				0		
Γ	FILE:	Print to	File						
E	USB001	Virtual p	orinter por	rt for					
E	192.16	Standard	d TCP/IP	Port				~	
	Add Po	art		Delete Port		Configure			

13) Enter the same number as the local port number set during the installation of the interface card in the "Port Number" field in the Raw Settings.

Port Settings		
Port Name:	192.168.1.1	
Printer Name or IP Address:	192.168.1.1	
Protocol		
Raw	OLPR	
Raw Settings		
Port Number: 91	00	
LPR Settings		
Queue Name:		
LPR Byte Counting Enable	ed	
SNMP Status Enabled		
Community Name: pu	ıblic	
SNMP Device Index: 1		

[Note]

- Do not change any other items except the RAW Settings.

14) Click [OK] when you finish entering the required values, and then click the [Apply] button.

Configure Standard TCP/IP Port Monitor	Printer Settings Stocks Language Barcode Fonts Command Fonts About General Sharing Ports Advanced Color Management Security
Port Settings - Port Name: 192.168.1.1	BIXOLON XT5-40
Printer Name or IP Address: 192.168.1.1 Protocol	Print to the following port(s). Documents will print to the first free checked port.
Raw O LPR	Port Description Printer ^
Raw Settings	COM1: Serial Port
Port Number: 9100	COM2: Serial Port
For Number.	COM3: Serial Port
LPR Settings	COM4: Serial Port
Queue Name:	USB001 Virtual printer port for
	✓ 192.16 Standard TCP/IP Port
LPR Byte Counting Enabled	
SNMP Status Enabled	Add Port Delete Port Configure Port
Community Name: public	Enable bidirectional support
SNMP Device Index: 1	Enable printer pooling

15) Select the "General" tab in the Properties window, and then select the "Print Test Page" to check the printing status.

Accation:	Location: Comment: Model: BIXOLON XL5-40CT Features Color: No Double-sided: No Staple: Unknown BIXOLON 1.5 x 1.0 (inch) BIXOLON 1.5 x 1.5 (inch) BIXOLON 1.5 x 2.0 (inch)	Printer Settin gs Sto General Sharing	ocks Langua Ports	ge Barcode F Advanced	onts Command Fon Color Management	ts About Security
Comment: Model: BIXOLON XL5-40CT Features Color: No Paper available: Double-sided: No BIXOLON 1.5 x 1.0 (inch) Staple: Unknown BIXOLON 1.5 x 1.5 (inch) BIXOLON 1.5 x 2.0 (inch) BIXOLON 2.0 x 1.0 (inch)	Comment: Model: BIXOLON XL5-40CT Features Color: No Paper available: Double-sided: No BIXOLON 1.5 x 1.0 (inch) Staple: Unknown BIXOLON 1.5 x 2.0 (inch) BIXOLON 1.5 x 2.0 (inch) BIXOLON 2.0 x 1.0 (inch) BIXOLON 2.0 x 1.5 (inch)	BIX	OLON XT5-40			
Features Paper available: Color: No Paper available: Double-sided: No BIXOLON 1.5 x 1.0 (inch) Staple: Unknown BIXOLON 1.5 x 1.5 (inch) BIXOLON 1.5 x 2.0 (inch) BIXOLON 2.0 x 1.0 (inch)	Features Paper available: Color: No Paper available: Double-sided: No BIXOLON 1.5 x 1.0 (inch) Staple: Unknown BIXOLON 1.5 x 1.5 (inch) BIXOLON 1.5 x 2.0 (inch) BIXOLON 1.5 x 2.0 (inch) Speed: Unknown BIXOLON 2.0 x 1.0 (inch) Maximum resolution: 203 dpi BIXOLON 2.0 x 1.5 (inch)					
Double-sided: No BIXOLON 1.5 x 1.0 (inch) Staple: Unknown BIXOLON 1.5 x 1.5 (inch) BIXOLON 1.5 x 2.0 (inch) BIXOLON 2.0 x 1.0 (inch)	Double-sided: NoBIXOLON 1.5 x 1.0 (inch)Staple: UnknownBIXOLON 1.5 x 1.5 (inch)Speed: UnknownBIXOLON 1.5 x 2.0 (inch)BIXOLON 2.0 x 1.0 (inch)BIXOLON 2.0 x 1.0 (inch)Maximum resolution: 203 dpiBIXOLON 2.0 x 1.5 (inch)	Features	DLON XL5-40C		aibhe	
Maximum resolution: 203 dpi	Preferences Print Test Page	Staple: Unknown Speed: Unknown		BIXOLO BIXOLO BIXOLO BIXOLO	DN 1.5 x 1.0 (inch) DN 1.5 x 1.5 (inch) DN 1.5 x 2.0 (inch) DN 2.0 x 1.0 (inch)	

6. Troubleshooting

When printing doesn't work Check network setting

When using Ethernet

- IP Address

Check whether the IP Address band of the printer rand the AP(or wireless terminals) are the same. The first three digits of the four digit value in the IP Address must be the same.

- Subnet Mask
 Check whether the subnet mask of the printer matches with the one in AP(or wireless terminal).
- Port

Check whether the port configured in the printer and the host(PC, PDA) are the same.

When using WLAN

Check the wireless network setting of the AP and the printer.

(Refer to Configuration for checking/changing the printer settings)

- SSID

Check whether the SSID of the printer matches with the one in AP(or wireless terminal)

- 802.11 mode Check whether AP supports 802.11a, 802.11b or 802.11g.
- Network Mode

Check the network mode of the printer.

Network mode must be set to "Infrastructure" to connect to AP.

- IP Address

Check the band of the IP Address.

Check whether the band of the printer and the AP(or wireless terminals) are the same.

The first three digits of the four digit value of the IP address must be the same.

- Subnet Mask

Check whether the subnet mask of the printer matches the one in AP(or wireless terminal).

- Port

Check whether the port configured in the printer and the host(PC, PDA) are the same.

Authentication/Encryption
 Check the authentication/encryption setting status.
 Check whether the settings of the printer and the AP(wireless terminals) are the same.

PING Check

Checking IP collision

- When entering IP address manually without using DHCP, you must check whether the corresponding IP address is used by other equipment. The printer may not work normally when there is a collision in the IP address.
- When the printer is turned off, carry out the Ping Test to the printer IP.

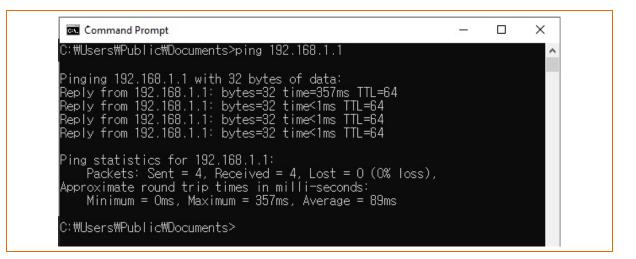
Ping TEST

- Turn off the printer.
- Search "cmd" and then click "Open".
- Enter "ARP –d {printer IP}" and delete ARP table.
- Enter "ping {printer IP}".
- ARP –d, ping {IP address}

Command Prompt	-		×
C:#Users#Public#Documents>arp -d 192.168.1.1			^
C:\Users\Public\Documents>ping 192.168.1.1			
Pinging 192.168.1.1 with 32 bytes of data: Reply from 192.168.1.2: Destination host unre Reply from 192.168.1.2: Destination host unre Reply from 192.168.1.2: Destination host unre Reply from 192.168.1.2: Destination host unre	achable. achable.		
Ping statistics for 192.168.1.1: Packets: Sent = 4, Received = 4, Lost = 0) (0% loss)),	
C:#Users#Public#Documents>			

When you see "Destination host unreachable." as shown below, it means that there is no collision. The corresponding IP can be used.

On the other hand, if there is a reply as shown below, then the corresponding IP is used by another network terminal and it cannot be used for the printer IP.



Check Cable

When using Ethernet

- In order to check whether the problem is due to the LAN cable, connect the cable connected to the printer to other terminals or the PC to confirm whether its operation is normal.

Default Values

	Printer Name	XT5-4x / XT3-4x
	Printer Port Num	9100
Printer Name	User ID	admin
	User Password	password
	FTP	Disable
	TELNET	Disable
		Disable
		SMTP Server Name: ""
		SMTP Port Number: 25
Protocol	SMTP	From Address: ""
FIOLOCOI		To Address: ""
		Check Interval(Sec): 10
		Paper Empty: OFF
		Cover Open: OFF
		Cutter Error: OFF
		Near End: OFF
Authentication	Open System	None
	Shared key	None
LAN	IP Assignment Method	DHCP
	Network Mode	Soft-AP
WLAN	SSID	PRINTER_XXXXXX
	IP Assignment Method	DHCP

Revision History

Rev.	Date	Page	Description
1.00	01.10.18	-	New.
2.00	22.01.20	All	Change image to Win10 Delete contents Win10 under
2.01	01.05.22	5,13,27, 28,41	Change image to XT series Change XT series Network Connection Manual