

Network User Manual

Rev. 1.09

TX Series DX Series DL Series XD Series SRP-770III / E770III

http://www.bixolon.com

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1. Specifications

(1) WLAN USB Adapter

BIXOLON printers require WLAN USB adapter to use the wireless LAN function. WLAN USB Adapter for BIXOLON printers should be available from BIXOLON. USB Adapter from market not BIXOLON is not guaranteed to be working properly with BIXOLON printers.

(Available model : TP-LINK Archer T2U AC600, TP-LINK TL-WN727N)

(2) Ethernet / WLAN Protocol

Layer	Protocol
Network Layers	ARP, IP, ICMP
Transport Layers	TCP, UDP
Application Layers	DHCP, DNS
	Raw Print
	SMTP(notify printer status)
	HTTP, HTTPS(setting)
	FTP(settings)
	TELNET(settings)

- (3) Ethernet Security
 - HTTPS(SSL2.0, SSL3.0, TLS1.0)
- (4) WLAN Security
 - WEP64/128
 - WPA/WPA2(TKIP/AES-CCMP) PSK
 - EAP(PEAP, FAST, LEAP, TTLS)
 - HTTPS(SSL2.0, SSL3.0, TLS1.0)

2. How to Connect

Both Ethernet and WLAN can be configured through the printer's Ethernet interface. Likewise, both Ethernet and WLAN can also be configured though the printer's 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.

(1) Connecting Printer

1) LAN

Connect the LAN cable to the printer

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

2) WLAN

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



Infrastructure Mode

In order to configure the network between wireless terminals, connect to the terminal in Ad-hoc Mode.



Ad-hoc Mode

2-1 Initial Wireless LAN Connection(Windows 2000)

Windows 2000 does not support wireless network stting.

When you use Windows 2000, you need to set the utility option as below after installing utility program related to the wireless lan driver that you use.

- Network mode: Ad-hoc
- SSID: BIXOLON_adhoc
- IP address: 192.168.1.2
- Subneet Mask: 255.255.255.0
- Authentication(Encrpition): Open(None)

2-2 Initial Wireless LAN Connection(Windows XP)

When wireless utility program is installed, you have to set the wireless control values via the program, otherwise you have to terminate the program in order to do proper setting after following the steps 'Control Panel>>Administrative tools>> Services>>Wireless Zero Configuration>>Start'.



1) Right click on the

icon, and select Properties.

2) Select and right click on the Wireless Network Connection, and then select Properties.

Network Connection	15				
<u>File E</u> dit <u>V</u> iew F <u>a</u> v	orites <u>T</u> ools	Adva <u>n</u> ced <u>H</u> elp			
🕞 Back 🔹 🌍 👻 🗗	🏂 🔎 Sear	rch 😥 Folders 🛛 🎹 🗸			
Address 🔕 Network Cor	nnections				💌 🄁 Go
	A	Name	Туре	Status	Device Na
Network Tasks Create a new connection Set up a home or office network Change Windows Firewall settings See Also Network Troubles	small shooter	LAN or High-Speed Internet	LAN or High-Speed Inter LAN or High-Speed Inter	Connected Not connected	Intel(R) PF RT73 USB
Other Places	85				
A My Documents	_	 			

3) Select Internet Protocol(TCP/IP), and then click Properties.

上 Wireless Network Connection Properties 🔋 🔋
General Wireless Networks Advanced
Connect using:
RT73 USB Wireless LAN Card
This connection uses the following items:
🗹 🚚 QoS Packet Scheduler 📃
Retwork Monitor Driver
M Thernet Protocol (TCP/IP)
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
$\overrightarrow{\mathbf{V}}$ Show icon in notification area when connected $\overrightarrow{\mathbf{V}}$ Notify the when this connection has limited or no connectivity
OK Cancel

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

Internet Protocol (TCP/IP) Propertie	s ?X
General	
You can get IP settings assigned autorr this capability. Otherwise, you need to a the appropriate IP settings.	natically if your network supports isk your network administrator for
🔿 Obtain an IP address automatical	y
☐ Use the following IP address: —	
IP address:	192.168.1.2
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	
C Obtain DNS server address autor	natically
	tresses:
Preferred DNS server:	· · ·
Alternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel

5) Select the Wireless LAN tab, and then select "Use Windows to configure my wireless network settings."

L Wireless Network Connection P	roperties	? X
General Wireless Networks Advan	ced	
Use Windows to configure my wi	reless network settings	
Available <u>n</u> etworks: To connect to, disconnect from, or about wireless networks in range, (find out more information click the button below.	
	View Wireless Network:	\$
Automatically connect to available below:	networks in the order liste Move up Move down	
Add Bemove Learn about setting up wireless net configuration.	Properties work Advanced	
	Close	ncel

Click the [Advanced] button.

6) Select "Computer-to-computer(ad hoc) network only."



7) Click the [Add] button.

🕹 Wireless Network Connection Properties	? ×
General Wireless Networks Advanced	
✓ Use <u>Windows to configure my wireless network settings</u>	
Available <u>n</u> etworks:	
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.	
View Wireless Networks	
Automatically connect to available networks in the order listed below: Move up Move down	
Add <u>B</u> emove Properties	
Learn about <u>setting up wireless network</u> Advanced	
Close	cel

8) Enter "BIXOLON_adhoc" as the Network name(SSID). Network Authentication: Select [Open] Data Encryption: Select [Disabled]

Wireless network properties	? ×
Association Authentication Connection	
Network name (SSID): BIXOLON_adhoc	ן כ
Wireless network key	
This network requires a key for the following:	
Network Authentication: Open	
Data encryption: Disabled	
Network <u>k</u> ey:	
Confirm network key:	
Key inde <u>x</u> (advanced): 1	
This is a computer-to-computer (ad hoc) network; wireless access points are not used	
OK Canc	el

Click the [OK] button.

9) Click the "Connect" tab and check "Connect when this network is in range."

BIXOLON_adhoc properties	? ×
Association Authentication Connection	
Automatic connection Whenever this network is detected, Windows can connect to it automatically. Connect when this network is in range	
OK Car	ncel

10) Check whether the settings are updated as shown below, and then click [Close]

🚣 Wireless Network Connection Properties 🛛 🤗	×
General Wireless Networks Advanced	
✓ Use <u>W</u> indows to configure my wireless network settings	
⊂ Available networks:	
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.	
View Wireless Networks	
BIXOLON_adhoc (Automatic) Move.up Move.down	
Add Bernove Properties Learn about setting up wireless network Advanced configuration. Advanced	
Close Cancel	

When the printer is set to the default value(Adhoc mode, SSID: BIXOLON_adhoc), it will automatically connect.

2-3 Initial Wireless LAN Connection(Windows VISTA, Windows 7, 8, 10)

When wireless utility program is installed, you have to set the wireless control values via the program, otherwise you have to terminate the program in order to do proper setting after following the steps 'Control Panel>>Administrative tools>> Services>>Wireless Zero Configuration>>Start'.

1) Click the "Start>>Conftrol Panel".



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



3) Click the "Change adapter settings".

and the second second	- 0+80-M			
🚱 🕞 👻 « Network and Inte	ernet 🔸 Network and Sharing Center	•	Search Control Panel	Q
Control Panel Home	View your basic network in	formation and	set up connections	0
Manage wireless networks Change adapter settings		- Jos -	Q	See full map
Change advanced sharing	(This computer)	NELWOIK 2	Internet	
settings	View your active networks		Co	nnect or disconnect
	Network 2 Work network		Access type: Internet Connections: 🏺 Local Area	Connection
	Change your networking settings —			
	Set up a new connection Set up a wireless, broadba point.	or network Ind, dial-up, ad hoo	c, or VPN connection; or set up	a router or access
	Connect to a network Connect or reconnect to a	a wireless, wired, di	al-up, or VPN network connec	tion.
	Choose homegroup and s Access files and printers lo	sharing options ocated on other ne	twork computers, or change sl	haring settings.
See also	Troubleshoot problems			
HomeGroup	Diagnose and repair netw	ork problems, or g	et troubleshooting information	n.
Internet Options		-	-	
Windows Firewall				

Click the "wireless network adaptor's Properties".

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

Wireless Network Connection Properties	×
Networking Sharing	
Connect using:	
👰 RT73 USB Wireless LAN Card	
Configure.	
Client for Microsoft Networks QoS Packet Scheduler Ges Piele and Printer Sharing for Microsoft Networks File and Printer Sharing for Microsoft Networks Image: A Internet Protocol Version 6 (TCP/IPv6) Image: A Internet Protocol Version 4 (TCP/IPv4)	
Install	
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
ОК Са	ncel

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

Internet Protocol Version 4 (TCP/IPv4) Properties							
General							
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.							
Obtain an IP address automatical	y						
• Use the following IP address:							
IP address:	192.168.1.2						
Subnet mask:	255 . 255 . 255 . 0						
Default gateway:							
Obtain DNS server address autom	atically						
• Use the following DNS server add	resses:						
Preferred DNS server:							
<u>A</u> lternate DNS server:	· · ·						
Validate settings upon exit							
	OK Cancel						

6) Click the "Manage wireless networks".



7) Click the "Add".

	x
🚱 🗢 📶 « Network and Internet > Manage Wireless Networks 🔹 4	٩
Manage wireless networks that use (Wireless Network Connection) Windows tries to connect to these networks in the order listed below.	
Add Adapter properties Profile types Network and Sharing Center	0
0 items	
line.	

8) Click the "Create an ad hoc network".



9) Click the "Next".



10) 'Network name' = BIXOLON_adhoc,

'Security type' = Open,

'Save this network' check, and then click the "Next".

🕒 👌 Set Up an Ad Hoc N	Vetwork		
Give your networ	k a name and choose security	options	
Ne <u>t</u> work name:	BIXOLON_adhoc		
<u>S</u> ecurity type:	No authentication (Open)	Help me choose	
S <u>e</u> curity key:		<u>H</u> ide characters	
⊘ Save this netw	ork		
		N	lext Cancel

11) Click the "Close".

🕞 🏥 Set Up an Ad Hoc Network	
The BIXOLON_adhoc network is ready to use This network will appear in the list of wireless networks and will stay active until everyone disconnects from it. Give the network name and security key (if any) to people you want to connect to this network.	
Wireless network name: BIXOLON_adhoc Network security key: unsecured	
To share files, open <u>Network and Sharing Center</u> in Control Panel and turn on file sharing. Recommended options:	
Turn on Internet connection sharing	
Share an Internet connection on an ad hoc network	2
	<u>C</u> lose

12) After completing configuration, Bixolon_adhoc network will be created.

and some and		22 C C C C C C C C C C C C C C C C C C						
C V Vetwork	and Internet 🔸 Manage Wireless Netw	orks 👻 🍾 Search	Manage Wireless Networks 👂					
Manage wireless networks that use (Wireless Network Connection) Windows tries to connect to these networks in the order listed below.								
Add Adapter properties	Profile types Network and Sharing	Center	0					
Networks you can view, mo	dify, and reorder (1)		^					
BIXOLON_adhoc	Security: Unsecured	Type: Any supported	Manually connect					
	-							
1 item								

When the printer is set to the default value(Adhoc mode, SSID: BIXOLON_adhoc), it will automatically connect.

3. Configuration

LAN Setting Values

Classification	Item	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 integers (except 21, 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 Passwor	Confirm Password	1~32 letters	
Protocol	WebServer SSL	Set whether to use HTTPS or not Http cannot be used when using Https	Enable/Disable	
	TELNET	Set whether to use Telnet	Enable/Disable	
	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)	
	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	

WLAN Setting Values

Classification	Item	Remarks	Input Range	
Home		WLAN setting status display		
	Printer Name	Printer Name	0~32 letters	
	Printer Port	TCP Raw port that the printer can use	0~32767 integers (except 21,23,25,80,443, 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	
Drotocol	WebServer SSL	Set whether to use HTTPS Http cannot be used when using Https	Enable/Disable	
Protocol	TELNET	Set whether to use Telnet	Enable/Disable	
	FTP	Set whether to use FTP	Enable/Disable	
	SMTP	Set whether to use SMTP	Enable/Disable	
	Network Mode	Wireless LAN operating mode	Infrastructure/Adhoc	
	Adhoc Channel	Channel when creating Adhoc network	1~14	
	SSID	ID of the AP to connect	1~32 letters	
	Inactivity Time	TCP connection hold time	0~3600 integer	
Network	IP Assignment Method	IP Assignment Method	DHCP/Manual	
	IP Address	Printer IP	IP Address	
	Subnet Mask	Subnet mask	IP Address	
	Gateway	Default Gateway	IP Address	
	DNS	Domain name server IP	IP Address	
	Authentication	Wireless LAN authentication method	open, shared, wpa1/2-psk, wpa1/2	
	Cryptograph	Wireless LAN encryption method	none, WEP64/128,TKIP, AES	
	EAP Mode	Authentication method	none, PEAP, TLS, LEAP, FAST	
Authentication	WEP Key	Key for WEP encryption method	WEP64(5 Ascii, 10 Hex) WEP128(13 Ascii, 26 Hex)	
	PSK Key	Key for PSK encryption method	1~64 letters	
	Authentication ID	ID for EAP Authentication	1~32 letters	
	Authentication PW	Password for EAP Authentication	1~32 letters	
Wizard		Setting wizard for each step		

3-1 Configuration Tool

Install Net Configuration Setup_[version] and excute it from the CD. (Start>>BIXOLON>>Net Configuration)

G BIXOLON Net Configuration V1.0.0	9
Ethernet Configuration	
WLAN Configuration	
Serial Configuration	
Exit	
Exit	

Click the Ethernet Configuration button when the printer is connected to the Ethernet, or click the WLAN button when the printer is connected through WLAN.

LAN Configuration

В	IXOL	ON Net Configuratio	n V1.0.0				×
	No	Mac Address	IP Address	Subnet	Gateway	Port Version	Search
							Setting
							Configuration(Web)
							1
							Exit

When you press the Search button, the printer connected to the network will be shown in the list. The following warning message may pop up if the firewall is installed.



Select [Unblock], and then retry the Search operation.

IIXOL	ON Net Configuratio	n V1.0.0					Σ
No	Mac Address	IP Address	Subnet	Gateway	Port	Version	Search
1	00:11:22:33:44:88	192.168.192.123	255.255.255.0	192.168.192.254	9100	N/A	
							 Setting
							Configuration(Web)
							Exit

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

E	Ethernet Configuration							
	Network Setting					_		
	IP Address :	192	. 168	. 192	. 168	1		
	Subnet Mask :	255	. 255	. 255	. 0	1		
	Gateway :	192	. 168	. 192	. 1			
	Local Port :		9100					
	Inactivity time :		0	sec (De	fault : C))		
			CP Mod	e				
	Device Baudrate :	19200)		•			
	Fimware Version :	N/A						
	Save Cancel							
						_		

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

(Device Baudrate setting, which is used for other models, is not necessary for Printer.)

BIXO	LON Net Configuratio	n V1.0.0					
No	Mac Address	IP Address	Subnet	Gateway	Port	Version	Search
1	00:11:22:33:44:88	192.168.192.123	255.255.255.0	192.168.192.254	9100	N/A	
							Setting
							Configuration(Web)
							Exit
1							

Select the printer from the list and press the [Configuration(Web)] button, and then the Login window will pop up.

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

Connect to 192.1	68.1.1 ? 🛛
The server 192, 168, 1 password,	,1 at , requires a username and
<u>U</u> ser name:	🧟 admin 💌
Password:	•••••
	Remember my password
	OK Cancel

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

BIXOLON Configuration - Microsoft Internet Explorer	🗙
File Edit View Favorites Tools Help	.
🔇 Back • 🕥 - 🖹 🖻 🏠 🔎 Search 👷 Favorites 🚱 😥 - 🌺 🔟 • 🔜 除 🎎 💈 🕉	
Address 🕘 http://192.168.192.123/	Links »
BIXOLON Configuration University Working Lan Configuration BIXOLON Headquarters Address (88, 7th FL, MirakAsset Venture Tower, Sampysong-dong, Buddarge, Songmann-G, Gyoonggi-do, Korsa 463-400 Tel. +92 (0) 31 28 5509 Website: www.biolon.com e-mail sales @biolon.com BIXOLON America Inc. Address.3171 Fujita St Torrance, CA 90505 Tel. +1 858 1604-890 Fax: -1 310 257 6669 Website: www.biolonus.com BIXOLON Europe GmbH Address: Tiefenthroicher Weg 35 40472 Disseldorf Tel. +49(0211-68 75 54-0) E-amail sales@biolon.de	
Copyright 2009 BIXOLON. All Rights Reserved	
	~
🖉 🖉 Internet	.:

WLAN Configuration

No	Mac Address	IP Address	Subnet	Gateway	Port	Version	Search
							Setting
							Configuration/Wok
							Configuration(web
							BSS Info
							Cartificante un la co

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

BIXOL	ON Net Configuratio	n V1.0.0						
No 1	Mac Address 00:19:e0:8c:88:52	IP Address 192.168.1.1	Subnet 255.255.255.0	Gateway 192.168.1.2	Port 9100	Version N/A	Search	
							Setting	
							Configuration(Web	2)
							BSS Info	
							Certificate upload	đ
							Exit	

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

W	LAN Configuration					
	Network Setting—					
	IP Address :	192 . 168 . 1 . 1				
	Subnet Mask :	255 . 255 . 255 . 0				
	Gateway :	192 . 168 . 1 . 2				
	Local Port :	9100				
	Inactivity time :	0 sec (Default : 0)				
		DHCP Mode				
	Device Baudrate :	19200 💌				
	Fimware Version :	N/A				
	Save	Cancel				
•						

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

(Device Baudrate setting, which is used for other models, is not necessary for Printer.)

BIXO	BIXOLON Net Configuration V1.0.0						
No 1	Mac Address	IP Address 192.168.1.1	Subnet 255.255.255.0	Gateway 192.168.1.2	Port 9100	Version N/A	Search
							Setting
							Configuration(Web)
							BSS Info
							Certificate upload
							Exit

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

Connect to 192.16	68.1.1 ? 🛛
	GP
The server 192, 168, 1, password,	1 at , requires a username and
<u>U</u> ser name:	🖸 admin 🛛 🔽
Password:	•••••
	Remember my password
	OK Cancel

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



You can search for the information of the wireless network by pressing the BSS Info button.

BIX	OLON Net Configuratio	n V1.0.0					
N 1	o Mac Address 00:19:e0:8c:88:52	IP Address 192.168.1.1	Subnet 255.255.255.0	Gateway 192.168.1.2	Port 9100	Version N/A	Search
							Setting
							Configuration(Web)
							BSS Info
							Certificate upload
							Fuit
							Exit

When you press the BSS Info button, information about the SSID, BSSID, Network Model, and Encryption information of the network in close range will be shown as follows.

No	SSID	BSSID	Mode	RSSI	Security	
1	buffalo_test	00-1D-73-3A-A2-D3	Infrastruct	- 52	No	
2		00-21-55-C1-0C-D0	Infrastruct	-44	WEP64/WEP	
3	3Com	00-21-55-C1-0C-D0	Infrastruct	-46	WEP64/WEP	
4	BIXOLON	00-13-5F-F9-4D-90	Infrastruct	-72	WEP64/WEP	
5	dev3	00-0F-EA-F0-D3-10	Infrastruct	-48	WEP64/WEP	
6	TeSys Wireless II	00-1D-7E-5B-5F-C7	Infrastruct	-76	WEP64/WEP	
7	BIXSW	Net Configuration		-62	WEP64/WEP	
8	BIXOLON_adhoc			-42	No	
9	anygate_test	Succeeded to BSS inform	ation acquisitions	-46	WPA	
10	bixolon2		_	-66	WEP64/WEP	
11	gdn	OK		-82	WEP64/WEP	
12	ckvision2		_	-68	WEP64/WEP	

3-2 Web Browser

Printer supports the security enhanced https protocol as well as http. When SSL of the web server of Printer is enabled, you must enter the address with "https" instead of "http" in the address bar to connect to the web-server.

(Automatic connection will be made when connecting with the configuration tool.)

When SSL of the web-server is enabled,

🕘 https://192, 168, 1, 1/	
---------------------------	--

* A security warning window will pop when you try to connect with https. Accept the certificate provided by the printer in the warning window and continue.

When SSL of the web-server is disabled,



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

Connect to 192.10	68.1.1 ? 🔀
	GP
The server 192, 168, 1, password,	1 at , requires a username and
<u>U</u> ser name:	😰 admin 🛛 🔽
Password:	•••••
	Remember my password
	OK Cancel

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

🗿 BIXOLON Configuration – Microsoft Internet Explorer	×
🎯 • 💿 · 🖹 🕼 🖉 🛧 🤣 🔗 😓 🖻 • 🖵 🗞 🛍 🥸 🧨 🦉	7
🔘 https://192,168,1,1/	
BIXOLON Configuration	~
BLXCLOUP reservation Vordet Link Address 200.3, Digital Empire Building A, SF, Yaongtong-dong, Yengtong en, Shuvon city, Oynonggi-do, Korea 443-81.3 Tai: +e32 (0) 31 21 5300 Websit: www.ybuolon.com BLXCLON America Inc. Address 21 TF pijns 31 Toranee, CA 90505 Tei: +1 328 7644 500 Fac: +82 (0) 31 21 5589 Websit: www.ybuolon.com BLXOLON Europe OmbH Address: TheFabroicher Weg 35 40472 Dusseldorf Tei: +49 (0)211-68 78 54-00 Fac: +49 (0)211-68 78 54-20 e-mail seles@buolon.ode	
Contraight 2000 BIYOI ON & Il Bighte Reserved	
oopyngin woo baroborn nii ngina xoonnoi	>
🖹 🔮 Internet	

Both LAN and WLAN can be configured from this window.

LAN Configuration Selection

BIXOLON Configuration - Microsoft Internet B	xplorer			
File Edit View Favorites Tools Help				
🚱 Back 🔹 📀 🖌 📓 🐔 🔎 Search	📌 Favorites	🗟 • 🍓 💌 • 📘] 🖹 🛍 🖗	-25
Address 🚳 http://192.168.192.123/lan/Home.cgi			1	🖌 🔁 Go 🛛 Links 🎽
BIXOLON Configuration				~
Home System Information				
Protocol Printer Name	SLP-TX400			
Network Printer Port	9100			
WebServer SSL	Disable	FTP	Enable	
Network Information	Enable	31/11	Disable	
IP Assignment Method	Manual Allocation			
IP ADDRESS	192.168.192.1	123		
Соруті	ht 2009 BIXOLON. All R	ights Reserved		~
! 😹 Done			🔮 Ini	ternet ,

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

Wireless LAN selection

🕘 BIXOLON Configura	tion - Microsoft Internet	Explorer			_ 🗆 🛛
File Edit View Fa	worites Tools Help				A
🚱 Back 🝷 🕥 🐇 [🗴 😰 🏠 🔎 Searc	h 🤺 Favorites	🖉 - 🌺 💌 -	📙 除 🎎 🖇	-25
Address http://192.168	3.1.1/wlan/Home.cgi			~	Go Links »
BIXOLON Configuration					<u>^</u>
Home System	System Information				
Protocol	Printer Name	SLP-TX400			
Network	Printer Port	9100			
Authentication Wizard	Protocol Information				_
	WebServer SSL	Disable	FTP	Enable	
	TELNET	Enable	SMTP	Disable	
	Network Information				=
	SSID	BIXOLON_adhoc			
	IP Assignment Method	Manual Allocation			
	IP ADDRESS	192.168.1.1			
	Authentication Information				
	Authentication	Open System	EAP Mode	None	
	Cryptograph	None			
	1				
	Copyrig	ht 2009 BIXOLON. All Righ	nts Reserved		
					~
🙆 Done				🌍 Inte	ernet ";

Home, System, Protocol, Network(WLAN), and Authentication can be configured from this window, and the wizard mode is also provided for easier step by step configuration.

3-3 FTP

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

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



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

∝ C:₩WINDOWS₩system32₩cmd.exe -	ftp 192.168.192.123
ftp> ls 200 OK 150 LIST	
-rw 1 root root 848 226 LIST DONE	T400II.config
ftp: 53 bytes received in 1.20Seconds ftp>	0.04Kbytes/sec.

Enter "get TX400.config" to download the configuration file.

C:\WINDOWS\System32\cmd.exe - ftp 192.168.192.123	- 🗆 🗙
ftp> get TX400.config	
200 OK	
150 RETR	
226 RETR DONE	
ftp: 854 bytes received in 1.20Seconds 0.71Kbytes/sec.	
ftp>	-

You can see that the "TX400.config" file is created in the corresponding directory.

Enter "put TX400.config" command if you want to upload the configuration file in the corresponding directory for the printer.



The contents of the TX400.config file are as follows.

File Edit Format View Help System Definition Name + 51 B Trid 00	
System	
<pre>Printer Name : SLP-1X400 User ID : admin Password : password Port : 9100 Protocol FTP Enable : 1 HTTPS Enable : 0 SMTP Port : 25 SMTP Vser : SMTP Port : 25 SMTP Vser : SMTP From : SMTP From : SMTP From : SMTP To : SMTP Interval(sec) : 3 DNS DNS 168.126.63.1 Inactivity time Inactivity time : 0 Ethernet LAN DHCP Mode : 0 LAN IP Address : 192.168.192.123 LAN Subnet Mask : 255.255.0 LAN Gateway : 192.168.192.254 WLAN WLAN Adhoc Channel : 6 WLAN Authentication : open WLAN Adhoc Channel : 6 WLAN Authentication : open WLAN EAP Mode : none WLAN EAP ID : WLAN ESSID : BIXOLON_adhoc WLAN WEP Key : 12345 WLAN WEP Key : 12345 WLAN WLAN MCP Mode : 0 WLAN VEP MODE : 0 WLAN WEP Key : 12345 WLAN WEP MODE : 0 WLAN VEP MODE : 0 WLAN VEP</pre>	
	-
<	► .d

* 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.

3-4 Telnet

Enter "telnet Printer IP".

∝ C:₩WINDOWS₩system32₩cmd.exe	_ 🗆 ×
C:#Documents and Settings#a>telnet 192.168.192.123	<u> </u>

Enter the ID and Password set for the printer.



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



4. 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 or WLAN configuration, and then select the Protocol tab.

BIXOLON Configur	ration - Microsoft	Internet Explorer			
🔇 - 🕥 - 💌	🗟 🏠 🔎 📩	🚱 🎯 - 🍃 📴 - 🖵 除 🏭 🦓 👘 👘	" 🦺		
(http://192,16	8, 1, 1/wlan/Protocol, co	i ·	→		
BIXOLON Configuration					
Home System	Function	Set-up			
Network Authentication	WebServer SSL	Disable			
Wrizard	TELNET	Disable			
	FTP	Disable			
	SMTP	Enable Configuration			
		SUBMIT			
Controlet 2000 BIYOLON All Bioble Reserved					
	······································				
ê		🔮 Internet			

Click the Configuration button to display the following window.

🙆 http://192.168.192	.123 - BIXOLON Configuration - Microsoft Internet Explorer 💦 🔲 🔀		
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	dministor@mail_server		
Check Interval(Sec)	3		
Paper Empty	OFF 💌		
Cover Open	OFF 🗸		
Cutter Error	OFF 👻		
Ribbon	OFF 🗸		
Calibration Error	OFF 🗸		
TPH Over Heat	OFF 🗸		
Paper Jam	OFF 🗸		
SUBMIT			
	Copyright 2009 BIXOLON. All Rights Reserved		
🙆 Done	🔮 Internet		

SMTP User ID	Check the ID registered to the mail server
SMTP Password	Enter the password for the corresponding User ID
	Enter the mail server(Example: Domain or mail server IP)
SMTP Server Name	* Check DNS settings when entering domain
SMTD Dort Number	Enter SMTP port
	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
	Entered value will be effective in second unit
Papar Empty	ON – E-mail is sent out when there is no paper
Paper Empty	OFF – Paper empty status is not checked
Cover Open	ON – E-mail is sent out when the printer cover is open
Cover Open	OFF – Printer cover status is not checked
Cuttor Error	ON – E-mail is sent out when there is error in the auto cutter
	OFF – Auto cutter error is not checked
Noar End	ON – E-mail is sent out when the printer is almost out of paper
inear Enu	OFF – Paper remaining status is not checked
Pibbon	ON – E-mail is sent out when there is no ribbon
	OFF – Paper empty status is not checked
Calibration Error	ON – E-mail is sent out when calibration is failed
Calibration Lino	OFF – Doesn't check auto paper setting errors
TDU Orașe Harit	ON – Check TPH when overheated
IFH Over heat	OFF – Doesn't check TPH overheat
Papar Jam	ON – E-mail is sent out when paper is jammed
r aper 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. Operating systems that allow you to use the Windows printer driver are Windows 2000, XP, 2003 Server, VISTA, 2008 Server, 7, 8, 10.

1) Install the Windows printer driver.

[Note]

- The Windows driver is included in the CD, and you can download the latest version from our home page.
 (www.bixolon.com)
- 2) Click the "Start" button, and then select "Printers and Faxes."



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



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

BIXOLON	SLP-TX400 Prop	perties		? ×
Stocks	Language Barco	ode Fonts	Command For	nts About
General	Sharing Por	ts Ac	dvanced P	rinter Settings
	BIXOLON SLP-TX4	00		
Location:				
Comment:				
Model:	BIXOLON SLP-TX40	00		
- Features				
Color: No		Paper ava	ailable:	
Double-si Staple: U Speed: U Maximum	ded: No nknown Inknown resolution: 203 dpi	User defi BIXOLO1 BIXOLO1 BIXOLO1 BIXOLO1 BIXOLO1	ned N 1.5 x 1.0 (inch) N 1.5 x 1.5 (inch) N 1.5 x 2.0 (inch) N 2.0 x 1.0 (inch) N 2.0 x 1.5 (inch)	
	Printing	Preference	s) Print T	Test Page
	ОК	Cancel	Apply	Help

5) Click "Add Port..."

BIXOLON SLP-TX400 Properties
Stocks Language Barcode Fonts Command Fonts About General Sharing Ports Advanced Printer Settings BIXOLON SLP-TX400 Print to the following port(s). Documents will print to the first free checked port. Print to the following port(s).
Port Description Printer LPT1: Printer Port LPT2: Printer Port COM1: Serial Port COM2: Serial Port COM6: Serial Port COM7: Serial Port Add Port Delete Port Configure Port Image: Printer pooling
OK Cancel Apply Help

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

Printer Ports	? ×
Available port types:	
Local Port Microsoft Document Imaging Writer Monitor PDF-Pro Port Monitor	
Standard TCP/IP Port	
New Port Type Car	ncel

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

Add Standard TCP/IP Prin	iter Port Wizard	X
	Welcome to the Add Standard TCP/IP Printer Port Wizard	
	You use this wizard to 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 > Cance	:

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.

Add Standard TCP/IP Printer P	ort Wizard 🛛 🔀
Add Port For which device do you want to	o add a port?
Enter the Printer Name or IP add	ress, and a port name for the desired device.
Printer Name or IP Address:	192.168.192.123
Port Name:	IP_192.168.192.123
	< Back Next > Cancel

[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.



[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.



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



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

BIXOLON SLP-TX400 Properties
Stocks Language Barcode Fonts Command Fonts About General Sharing Ports Advanced Printer Settings BIXOLON SLP-TX400
Port Description Printer LPT1: Printer Port LPT2: Printer Port COM1: Serial Port COM2: Serial Port COM6: Serial Port COM7: Serial Port Add Port Delete Port Configure Port Image: Printer pooling
OK Cancel Apply Help

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.

Configure Standard TCP/IP Port Monitor			
Port Settings			
Port Name:	IP_192.168.192.123		
Printer Name or IP Address:	192.168.192.123		
Protocol Raw	OLPR		
Raw Settings Port Number: 9100			
LPR Settings Queue Name:			
LPR Byte Counting Enabled			
SNMP Status Enabled			
Community Name: public			
SNMP Device Index: 1			
	OK Cancel		

[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.

onfigure Standard TCP/II	P Port Monitor
Port Settings	
Port Name:	IP_192.168.192.123
Printer Name or IP Address:	192.168.192.123
Protocol	OLPR
Raw Settings	
Port Number: 91	00
LPR Settings	
Queue Name:	
LPR Byte Counting Enab	led
SNMP Status Enabled	
Community Name: put	blic
SNMP Device Index: 1	
	OK Cancel

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

BIXOLON Stocks General	SLP-TX400 Prop	Derties ?
	BIXOLON SLP-TX40	
Location: Comment:		
Model:	BIXOLON SLP-TX40	0
Color: No Double-si Staple: U Speed: U Maximum	ded: No nknown Inknown resolution: 203 dpi	Paper available: User defined 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)
	Printing	Preferences Print Test Page
	ок	Cancel Apply Help

6. Factory Reset

This function changes the Ethernet and WLAN settings of the printer to the initial factory settings.

- SSID of WLAN will be reset as Default(BIXOLON_adhoc)

Method(There are 2ways to make the printer WLAN reset)

- In order to carry out the factory reset, turn off the printer, and then turn on the printer while pressing the reset button as shown in the following picture. (Please wait for about 10 to 15 seconds while holding down the reset button)
- 2) Send the network factory.bin file to the printer via Unified Label Utility.
- * Network Self Test
 - Push the below reset button to check the Ethernet, WLAN information.

[TX40x]



[TX42x/DX42x]



[DX22x/TX22x]



[DL41x]



[770III/E770III]



[XD3-40d]



Factory Reset Values

		SLP-TX400/TX403
		SLP-TX420/TX423
		SLP-TX220/TX223
	Printer Name	SLP-DX420/DX423
		SLP-DX220/DX223
Printer Name		SLP-DL410/DL413
		SRP-770III/E770III
		XD3-40d
	Printer Port Number	9100
	User ID	admin
	User Password	password
	FTP	Disabled
	TELNET	Disabled
	HTTPS	Disabled
		Disabled
	SMTP	SMTP Server Name: ""
		SMTP Port Number: 25
Protocol		From Address: ""
		To Address: ""
		Check Interval(Sec): 10
		Paper Empty: OFF
		Cover Open: OFF
		Cutter Error: OFF
Open System	Near End: OFF	
	Open System	None
Authentication	Shared key	None
LAN	IP Assignment Method	DHCP
	Network Mode	Ad-hoc, channel 6
WLAN	SSID	BIXOLON_adhoc
	IP Assignment Method	manual
		IP: 192.168.1.1
	IP, Subnet, Gateway	Subnet: 255.255.255.0
		Gateway: 192.168.1.2

7. 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 802.11b or 802.11g.
 BIXOLON printer supports 802.11b/g, and 802.11a is not supported.
- Network Mode

Check the network mode of the printer.

Network mode must be set to "Infrastructure" to connect to AP and "Ad-hoc" to connect between wireless terminals.

- 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.
- Select "Run" from the Windows Start menu, and then enter "cmd".
- Enter "ARP –d" and delete ARP table.
- Enter "ping {printer IP}".
- ARP –d, ping {IP address}

🛤 C:\WINDOWS\System32\Cmd.exe	- 🗆 🗙
C:#Documents and Settings>arp -d	
C:\Documents and Settings>ping 192.168.1.111	
Pinging 192.168.1.111 with 32 bytes of data:	
Request timed out.	
Ping statistics for 192.168.1.111:	
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),	
C:₩Documents and Settings>	
	-

When you see "Request timed out." 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.

🛯 C:\WINDOWS\System32\Cmd.exe	- 🗆 X
C:#Documents and Settings>ping 192.168.1.111	
Pinging 192.168.1.1 with 32 bytes of data:	
Reply from 192.168.1.111: bytes=32 time<1ms TTL=64	
Reply from 192.168.1.111: bytes=32 time<1ms TTL=64	
Reply from 192.168.1.111: bytes=32 time<1ms TTL=64	
Reply from 192.168.1.111: bytes=32 time<1ms TTL=64	
Ping statistics for 192.168.1.111:	
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),	
Approximate round trip times in milli-seconds:	
Minimum = Oms, Maximum = Oms, Average = Oms	
C:#Documents and Settings>	
	-

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.

When using WLAN

- It is recommended to use the USB extended cable provided by BIXOLON.
- Connect the USB extended cable and WLAN dongle to other terminals or the PC and confirm whether recognition operation is normal.
- Check whether WLAN USB adaptor uses the Ralink RT73 chipset. WLAN USB adaptors that use chipsets other than RT73 of Ralink won't work when it is connected to Printer.

8. Manual Information

This manual provides information on the connection of wireless network with the printer.

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