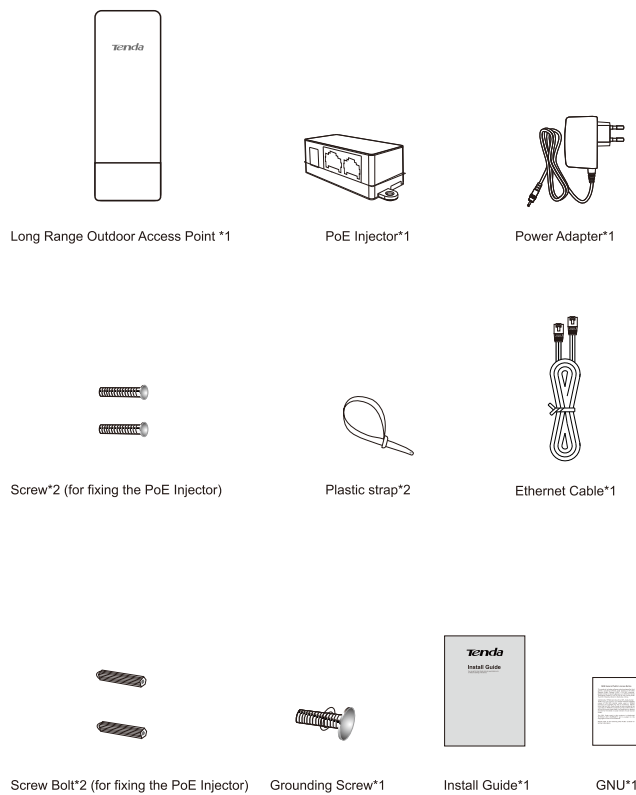# Tenda

Install Guide

You can get the User Guide online at www.tendacn.com for featured settings of the device.

Package Contents

Long Range Outdoor Access Point *1

PoE Injector*1

Power Adapter*1

Screw*2 (for fixing the PoE Injector)

Plastic strap*2

Ethernet Cable*1

Screw Bolt*2 (for fixing the PoE Injector)

Grounding Screw*1

Install Guide*1

GNU*1

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1 Get to Know Your Device

▶ Front View

① ② ③ ④

⑤
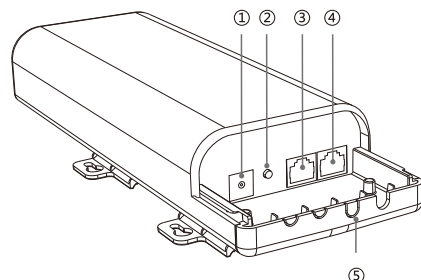
| Item	Port / Button	Description
①	GND	With the included grounding screw, attach a copper wire here to provide proper surge and lightning protection for your device.
②	RST	Pressing and holding the reset button for over 7 seconds restores this device to factory defaults.
③	LAN	A 100Mbps LAN port for connecting the Ethernet device such as a switch, a computer, etc.
④	PoE LAN/WAN	This port provides power over an Ethernet connection via the PoE injector. And it works interchangeably as a WAN port in Router mode and a LAN port in other modes.
⑤	/	Cable access hole cut-outs

▶ Rear View

PoE WAN/LAN — LAN
SYS — Bridge

Slip resistant pole
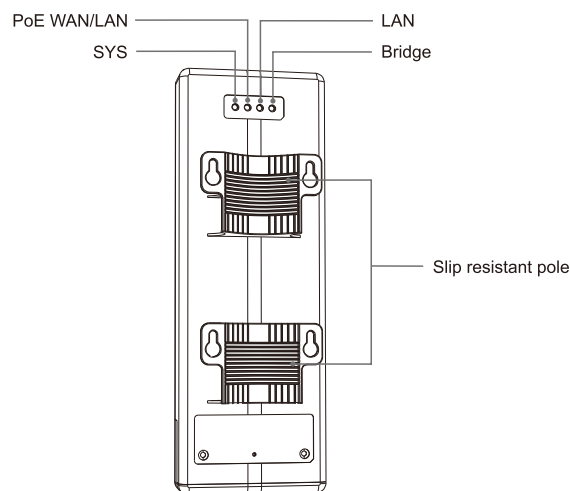
| LED	Status	Description
SYS	Off	Malfunction occurs or the device is not powered on.
	Blinking	The device is working properly.
PoE WAN/LAN	Off	There is no device linked to this port.
	Solid	There is a device linked to this port but no data transmission.
	Blinking	Data transmission is occurring on this port.
LAN	Off	There is no device linked to this port.
	Solid	There is a device linked to this port but no data transmission.
	Blinking	Data transmission is occurring on this port.
Bridge	Off	• Working in AP or Router mode • Failed to connect to remote AP
	Solid	Bridged to the remote AP successfully

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2 Hardware Install

Step 1: Mount the AP

Set up the AP in an outdoor location, usually on the roof, and thread plastic wraps through grooves underneath the brackets.
Then attach the device firmly to a solid pole.
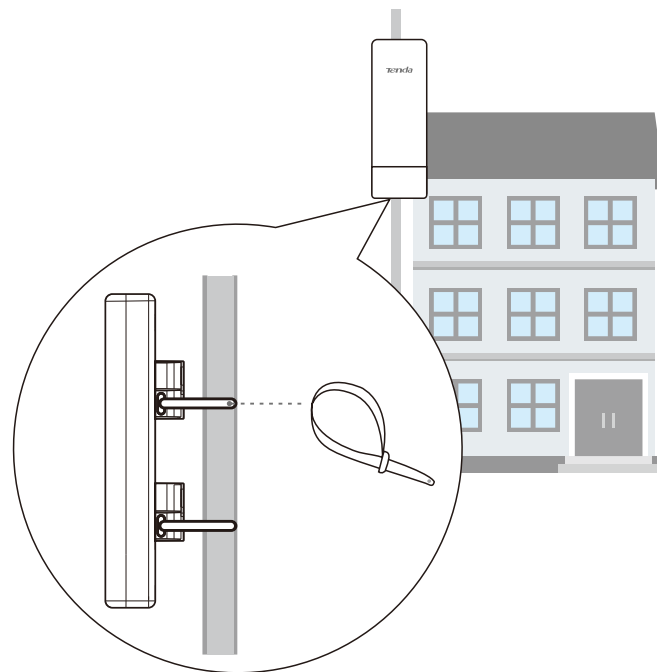
Step 2: Connect the AP

1. Slide the bottom cover of the AP down to expose the ports.
2. Connect the **PoE LAN/WAN** port of your AP to the **PoE** port of the injector with an Ethernet cable.
3. Connect your computer to the **LAN** port of the injector with another Ethernet cable.
4. Gently replace the cover by sliding it up until it clicks into place.
5. Power on the AP by plugging the included power adapter into the **DC** jack on the injector, and the other end into a standard power outlet.
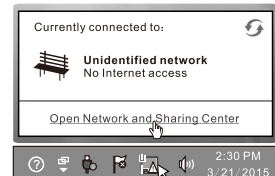
O3

DC PoE LAN — PoE Injector

PoE LAN/WAN

Bottom Cover

PC

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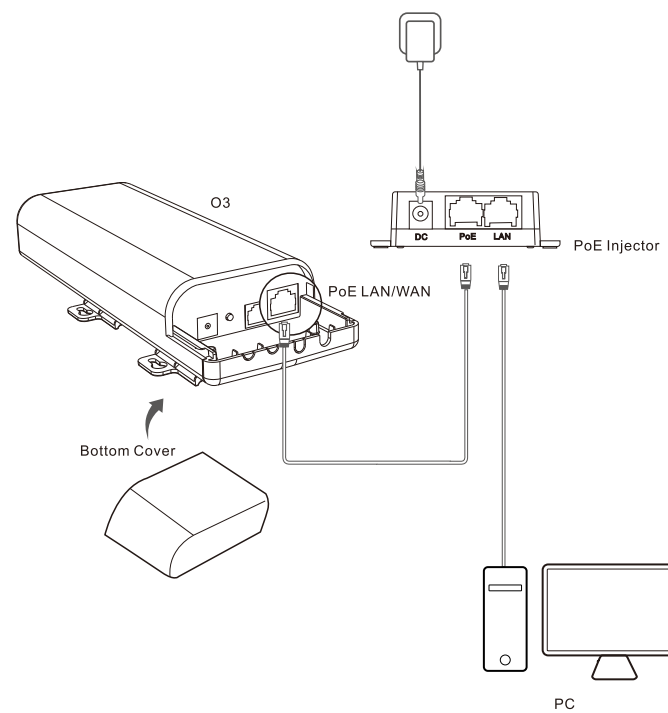
3 Configure PC

* Take Windows 7 as an example

Step 1: Click the icon on the bottom right corner of your desktop.

Step 2: Click **Open Network and Sharing Center**.

Currently connected to:
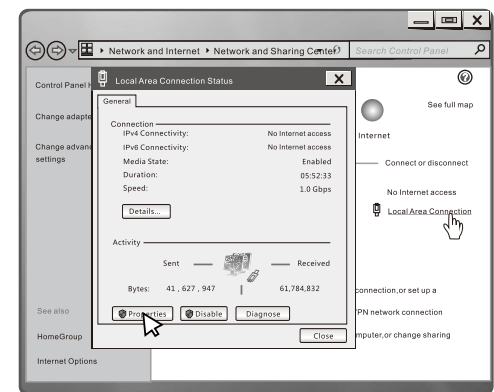**Unidentified network**
No Internet access
Open Network and Sharing Center
2:30 PM
3/21/2015

Tips
If you cannot find the icon on the bottom right corner of your desktop, follow steps below:
Click Start > Control Panel > Network and Internet > Network and Sharing Center.

Step 3: Click **Local Area Connection > Properties**.

Step 4: Find and double click **Internet Protocol Version 4(TCP/IPv4)**.
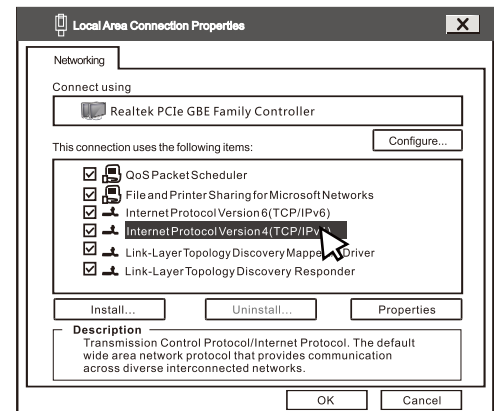
Step 5: Select **Use the following IP address**, type in the IP address: **192.168.2.x** (2~253), Subnet mask: **255.255.255.0** and click **OK**.

IP address: 192.168.2.6
Subnet mask: 255.255.255.0
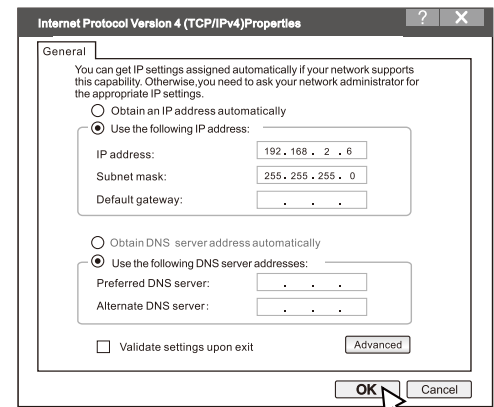
Step 6: Click **OK** on the **Local Area Connection Properties** window (see **Step 4** for the screenshot).

4 Configure the AP

Step 1: Input **192.168.2.1** in a web browser's address bar, and then press **Enter** or **Return** on your keyboard.

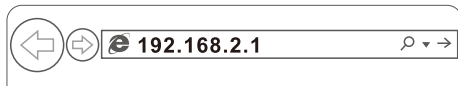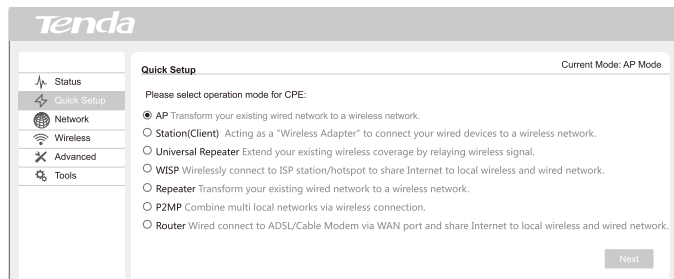192.168.2.1

Step 2: Enter the default username and password (**admin** for both defaults) and click **Login**.

admin
•••••
India

Login

Forget your password?

Step 3: Please select the proper operating mode and follow instructions on the web UI to apply your settings.

Tenda

Status	Quick Setup	Current Mode: AP Mode

Please select operation mode for CPE:

- ⦿ **AP** Transform your existing wired network to a wireless network.
- ○ **Station(Client)** Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
- ○ **Universal Repeater** Extend your existing wireless coverage by relaying wireless signal.
- ○ **WISP** Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network.
- ○ **Repeater** Transform your existing wired network to a wireless network.
- ○ **P2MP** Combine multi local networks via wireless connection.
- ○ **Router** Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.

Next

Here we will mainly introduce 2 application scenarios to you.

▶ AP Mode + Station Mode

For long-distance data transmission and IP camera (CCTV) surveillance, one works in AP mode and the other works in Station mode to build stable wireless connection. Please follow the steps as shown below.

Station Mode
AP Mode
AP 2
AP 1
Internet
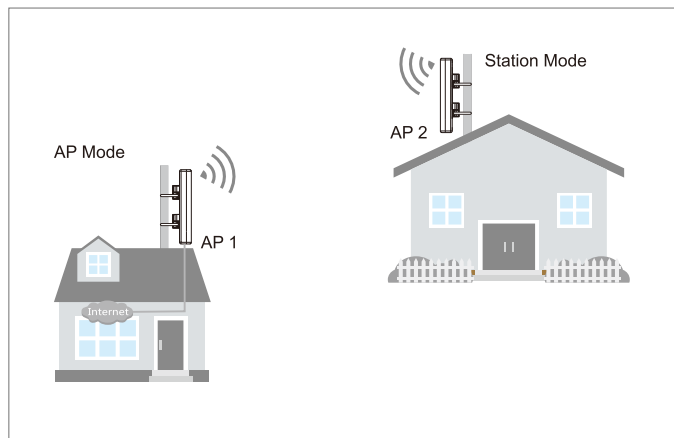
1.Set AP1 in AP mode.

① Select **AP** mode

Quick Setup	Current Mode: AP Mode

Please select operation mode for CPE:

- ⦿ **AP** Transform your existing wired network to a wireless network.
- ○ **Station(Client)** Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
- ○ **Universal Repeater** Extend your existing wireless coverage by relaying wireless signal.
- ○ **WISP** Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network.
- ○ **Repeater** Transform your existing wired network to a wireless network.
- ○ **P2MP** Combine multi local networks via wireless connection.
- ○ **Router** Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.

Next

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② Customize your SSID (WiFi name)
Set security settings (Recommended: WPA2-PSK, AES)

Quick Setup >> AP	Current Mode: AP Mode

This sector is used to set wireless network name and wireless password for your local network, please remember the wifi password.

SSID	Tenda_001FA0
Channel	Channel 6(2437MHz) ▾
Security Mode	WPA2-PSK ▾
Encryption Type	⦿ AES ○ TKIP ○ TKIP&AES
WiFi Password	12345678

Previous   Next

Then click **Save** on the appearing page to apply your settings. Wait until the device restarts automatically.

2.Set AP2 in Station mode.

① Select **Station** mode

Quick Setup	Current Mode: AP Mode

Please select operation mode for CPE:

- ○ **AP** Transform your existing wired network to a wireless network.
- ⦿ **Station(Client)** Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
- ○ **Universal Repeater** Extend your existing wireless coverage by relaying wireless signal.
- ○ **WISP** Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network.
- ○ **Repeater** Transform your existing wired network to a wireless network.
- ○ **P2MP** Combine multi local networks via wireless connection.
- ○ **Router** Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.

Next

② Select the remote SSID (WiFi name) you wish to bridge from the list

Quick Setup >> Station

Please switch on Scan button or click Rescan to scan the wireless signal, then select the remote AP you want to connect, and click Next to continue.

Scan   Rescan
Remote SSID   Tenda_001FA0

Select	SSID	Channel	MAC Address	Encryption	Signal Strength ▾
⦿	Tenda_001FA0	6	C8:3A:35:12:34:B0	wpa2psk/tkip+aes	

③ Enter the key (WiFi password) of the remote SSID if needed

Quick Setup >> Station

Please keep Channel, Security mode,Encryption Type,Frequency bandwidth the same with remote AP, then enter the remote AP's wifi password,and click Next to continue.

Remote AP	Tenda_001FA0
Remote AP MAC	C8:3A:35:12:34:B0
Channel	Channel 6(2437MHz) ▾
Security Mode	WPA2-PSK ▾
Encryption Type	⦿ AES ○ TKIP ○ TKIP&AES
Key	12345678

Previous   Next

④ If the remote AP's IP address is 192.168.2.1, this AP's IP address should be 192.168.2.x (2~254).

Quick Setup >> Station

Please make sure the IP address is different from remote AP's IP address but in the same network segment.

IP Address	192.168.2.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.254
Preferred DNS Server	192.168.2.254
Alternate DNS Server	

Previous   Next

Then click **Save** on the appearing page to apply your settings. Wait until the device restarts automatically. When the **Bridge** LED stays solid, it has been bridged successfully!

▶ WISP Mode

In this mode, the device connects to ISP hotspot wirelessly to share Internet with local wireless and wired devices.

① Select **WISP** mode

Quick Setup	Current Mode: AP Mode

Please select operation mode for CPE:

- ○ **AP** Transform your existing wired network to a wireless network.
- ○ **Station(Client)** Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
- ○ **Universal Repeater** Extend your existing wireless coverage by relaying wireless signal.
- ⦿ **WISP** Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network.
- ○ **Repeater** Transform your existing wired network to a wireless network.
- ○ **P2MP** Combine multi local networks via wireless connection.
- ○ **Router** Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.

Next

② Select the SSID (WiFi name) of ISP hotspot

Quick Setup >> WISP

Please switch on Scan button or click Rescan to scan the wireless signal, then select the remote AP you want to connect, and click Next to continue.

Scan   Rescan
Remote SSID   Tenda_001FA0

Select	SSID	Channel	MAC Address	Encryption	Signal Strength ▾
⦿	Tenda_001FA0	6	C8:3A:35:12:34:B0	wpa2psk/tkip+aes	

③ Enter the key (WiFi password) of the ISP hotspot if needed

Quick Setup >> WISP

Please keep Channel, Security mode,Encryption Type,Frequency bandwidth the same with remote AP, then enter the remote AP's wifi password,and click Next to continue.

Remote AP	Tenda_001FA0
Remote AP MAC	C8:3A:35:12:34:B0
Channel	Channel 6(2437MHz) ▾
Security Mode	WPA2-PSK ▾
Encryption Type	○ AES ○ TKIP ⦿ TKIP&AES
Key	

Previous   Next

④ Select the WAN connection type and set corresponding parameters if needed

Quick Setup >> WISP

Please select WAN connection type,then enter the PPPoE acount or ip address provided by ISP, and click Next to continue.

WAN Connection Type   ⦿ DHCP(Dynamic IP)   ○ Static IP   ○ PPPoE

Previous   Next

⑤ Customize your SSID for your local network
Set security settings for your local network(Recommended: WPA2-PSK and AES)

Quick Setup >> WISP

This sector is used to set wireless network name and wireless password for your local network, please remember the wifi password.

SSID	Tenda_001FA0
Channel	Channel 6(2437MHz) ▾
Security Mode	WPA2-PSK ▾
Encryption Type	⦿ AES ○ TKIP ○ TKIP&AES
WiFi Password	12345678

Previous   Next

⑥ If the ISP hotspot's IP address is 192.168.2.x, this AP's IP can be 192.168.5.x.
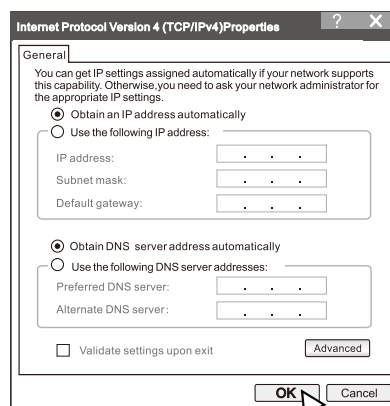
Quick Setup >> WISP

Please make sure the IP address is different from ISP hotspot's IP address and in the different network segment.

IP Address	192.168.5.1
Subnet Mask	255.255.255.0

Previous   Next

Then click **Save** on the appearing page to apply your settings. Wait until the device restarts automatically. When the **Bridge** LED stays solid, it has been bridged successfully!

Step 4: After finishing settings mentioned above, set your PC to **Obtain an IP address automatically** for Internet access.

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 automatically
- ○ Use the following IP address:
  - IP address:
  - Subnet mask:
  - Default gateway:
- ⦿ Obtain DNS server address automatically
- ○ Use the following DNS server addresses:
  - Preferred DNS server:
  - Alternate DNS server:

☐ Validate settings upon exit   Advanced

OK   Cancel

FAQs

Q1:How do I restore my AP to its factory default settings?

Method 1: Via the **RST** button
With the AP powered on, slide the bottom cover of the AP down to expose the **RST** button, press and hold it for over 7 seconds to restore the AP to its factory defaults. Note that once your AP is reset, all your current settings will be lost and you need to reconfigure your AP.
Method 2: Via the Web UI
Log in to this device's web UI, click **Tools > Maintenance,** locate the **Reset to Factory Settings** section and click **Reset.**

Q2: I enter the device's LAN IP address in the web browser but cannot access this device's web UI. What should I do?

① Verify that the IP address of computer should be a different one but on the same network segment as the LAN IP address of this device. The default LAN IP address of AP is 192.168.2.1 and you need to set your PC to a static IP address within the following range: 192.168.2.X (2~253);
② Clear the browser cookies or try another web browser;
If you are still unable to login, please restore the device to factory default settings and follow this Install Guide to configure your settings again.

Safety & Emission Statement

CE

CE Mark Warning
This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. This device complies with EU 1999/5/EC.
NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

FC

FCC Statement
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.