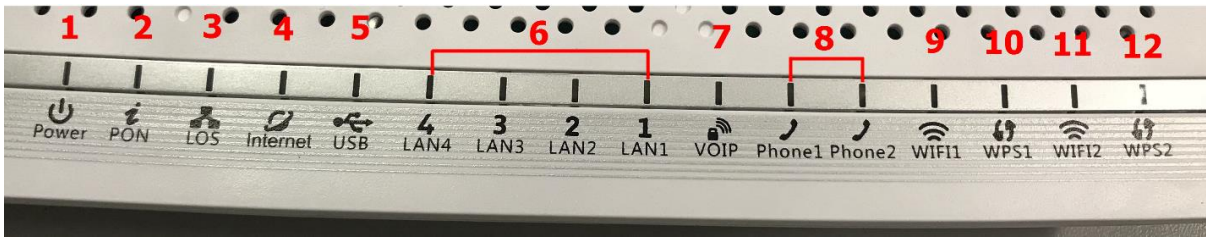**FiberHome AN5506-04-FA**
Instruction

Version FiberHome AN5506-04-FA

1. AN5506-04-FA Router power status
2. Internet connection Settings
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1. AN5506-04-FA Router power status

หมายเลข	ชื่อสัญลักษณ์	สถานะไฟ	รายละเอียด
1	POWER	Steady green	The terminal is powered on.
		Steady orange	The device is powered by a backup battery.
		Off	The power supply is cut off.
2-3	Off	Off	The GPON terminal is prohibited by the upper-layer device, contact the service provider for help.
	Blinks twice a second	Off	The GPON terminal attempts to set up a connection with its upper-layer device.
	Steady on	Off	A connection is set up between the GPON terminal and its upper-layer device.
	Off	Blinks once two seconds	The GPON terminal is not connected to optical fibers or does not receive optical signals.
	Blinks twice a second	Blinks twice a second	The GPON terminal is a rogue terminal, contact the service provider for help.
	Blinks once two seconds	Blinks once two seconds	The hardware is faulty.
	Off	Off	The GPON terminal is prohibited by the upper-layer device, contact the service provider for help.
4	Internet	Steady on	Able to connect to the Internet
		Off	Unable to connect to the Internet
		Blinking	The device is in the process of receiving / sending Internet data.
5	USB	USB connection status indicator	
6	LAN1 - LAN4	Steady on	The Ethernet connection is in the normal state.
		Blinking	Data is being transmitted on the Ethernet port.
		Off	The Ethernet connection is not set up.
7	VOIP	VoIP connection indicator	
8	Phone1-Phone2	Indicator light connecting to VoIP	
9,11	WIFI1,WIFI2	Wireless connection Indicator light If it is in use, sending/receiving data, the light will be flashing green.	
10,12	WPS1,WPS2	Steady on	The device has an unencrypted wireless connection, it is ready to use
		Blinking	The device has an unencrypted wireless connection, it's ready to use and Currently connected
		Off	The device is not connected to WPS.

2. Internet connection Settings

There are 2 type to set the Internet connection

Type 1. Shortcut

- Open the browser and enter 192.168.1.1/3bb

- In the Quick Configuration page that is displayed, enter Username/Password that you can check from installation report

- Enter validate code as shown.

- Click Apply

- After finished, enter URL Website to access Internet

Type 2. General

- Open the browser and enter 192.168.1.1

- In the login window, enter the username, password (They are located on the sticker attached to the bottom of the router)

- Enter the Validate Code as shown.

- Click Login to enter the WAN, Wireless settings

Sample picture: The username and password are located on the sticker attached to the bottom of the router.
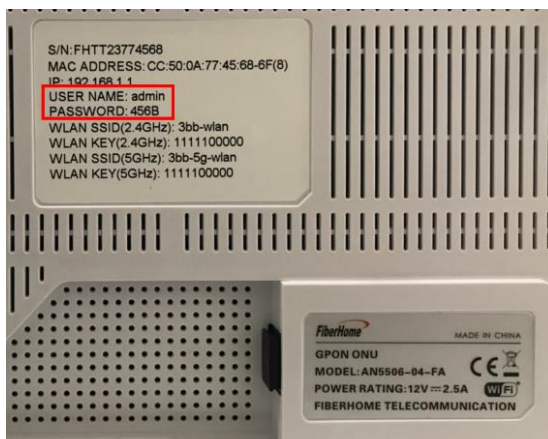
3. WAN, Wireless Settings

3.1 WAN settings

When you login to the system, you will see various menu.

Follow these steps:

- Click **Network(1)** → Click BroadBand Settings**(2)** Screen showing Internet Settings

Follow these settings**(3)**
- **Service Type**   ; Choose **INTERNET**
- **Connection Type**   ; **Route**
- **VLAN ID**   ; **33**
- **Priority**   ; **0**
- **MTU**   ; **1492**(set between 1280-1492)
- **IP Mode(4) ; IPv4** (Choose by device's capacity that customer use for example IPv4,IPV6 or IPV4&IPV6)
- **WAN IP Mode(5) ;** Choose **PPPoE**
- Enter **Username/Password(6)** You can check from installation report
- **Click Apply(7)**
- After finished, enter URL Website to access Internet

3.2 Wireless Settings

There are 2 step to set wireless connection
Step 1: Set all for Wireless 2.4G or Wireless 5G
- Click **Network(1)** → Click **Wlan Settings(2)**
- Click **Basic(3) for** Wireless 2.4G or **5G Basic(4) for Wireless 5G** (You can choose to set both or just one signal)
Follow these settings**(5)**

- **Radio ON/Off ;** Choose **RADIO ON** to open WiFi signal
- **Network Mode ;** 802.11 b/g/n (Choose the signal channel that you want)
- **Frequency Bandwidth ;** 40 MHz (Choose the signal's broadness that you want)
- **Frequency (Channel) ; AutoSelect** (Choose the signal that you want)
- **Guard interval ;** Set usage time and signal quality that you want
                   (Short ; to use near device / Long ; to use far from device)
- Click **Apply(6)** after that go to step 2 to set password

Step 2 : SSID Settings for Wireless 2.4G or Wireless 5G
- Click **Advanced(7)**for Wireless 2.4G or **5G Advanced(8)** for Wireless 5G (You can choose to set both or just one signal)
- **SSID Choice(9) ;** 1 (Choose the required number of signals)
               ; Choose Enable to open the signal
- **SSID Name(10) ;** Named that you want (not more than 32 characters)
- **Passphrase(11) ;** Enter the required password (8-63 characters can enter both letters and numbers depend on Security Mode)
- Click **Apply(12)** to record Wireless settings
- After finished, enter URL Website to access the internet

4. DHCP Settings

DHCP Settings and IP Address management is IP management and distribution that do not give duplicate IP to protect the problem when you using
- Click **Network(1)** --> Click **DHCP Server(2)** --> screen showing **DHCP Service**
Follow these settings**(3)**
- **Type ;** Choose **Server**

- **DHCP Start IP ;** Set the begin IP Address that you want to use
- **DHCP End IP ;** Set the end IP Address that you want to use
- **DHCP Subnet Mask ;** 255.255.255.0 You can change or use as Default
- Click **Apply(4)**
- DHCP Settings finished

5. Bridge Mode Settings

Click Network**(1)** --> Click BroadBand Settings**(2)** Screen showing Internet Settings
Follow these settings**(3)**
- **Service Type** ; Choose **INTERNET**
- **Connection Type** ; Choose **Bridge**
- **VLAN ID** ; VLAN ID NODE
- **Priority** ; 0
- Click **Apply(4)**
- Set up the router that you want to connect to Internet, then connect both device by connecting Lan cable to the Prepared WAN
- Bridge Mode Settings finished, you can access the internet

6. Forward Port Settings

    Forward Port Settings is Port setting for IP Address to use with other device required internal LAN to connect from external LAN such as Mobile phone, Notebook or Computer etc

- Click **Application(1)** --> Click **Port Forwarding(2)** --> Screen showing **Port Forwarding**
- Click **Add(3)** to set other settings to Forward Port

The system will show screen to set other settings as follows**(4)**
- **WAN ;** Choose **INTERNET_R_VID_33**
- **Description ; 3BBTEST** (Named that you want)
- **Public Port ; 8080** (It is the inside Port number that use to view camera)
- **IP ; 192.168.1.1** (It is the inside IP number that use to view camera)
- **Private Port ; 8080** (It is the outside Port number that use to view camera)
- **Protocol ;** Choose **TCP** (Named that you want)
- **Enable ;** Set to be **Enable**
- Click **Apply(5)**

- When done, the setting's information will show above**(6)**
- You can use CCTV after Forward Port settings finished
- In case if you want to set more Port numbers click **Add(7)** To add additional port numbers and the information provided will show more results

7. Dynamic DNS

Example: You apply Dyndns's Host by use "contact2nma.dyndns.org" name, that is a domain that you can use to view the camera from any point that no need to remember IP's received from service providers.

- Click **Application(1)** --> Click **DDNS(2)** --> Screen showing DDNS Settings
  The system will show the screen to fill in as follows**(3)**
- **Username/Password ;** As customer defined on the web of DDNS service provider (not more than 32 characters)
- **Host**   ; **contact2nma.dyndns.org** (The name given on the web of DDNS service provider.)
- **WAN Interface**   ; **INTERNET_R_VID_33** (Choose the required WAN Name)
- **DDNS Provider**   ; **www.dyndns.org** (Choose a registered DDNS provider)
- **Click Apply(4)**
- DDNS settings finished

8. Power Checking

To check Optical Power when you have internet problem such as low speed or unstable that Optical Power not more than -28

- Click **Status(1)** --> Click **Optical Info(2) --**> Screen showing Optical Power
- **Received Power(3) ;** Check Received Power not more than -28
- Power checking finished

9. Product version, Hardware and software Checking

- Click **Status tab(1)** → **Device Information(2)** Product version, Hardware and software Checking**(3)**

10. Firmware Upgrading

It is Upgrading Firmware of device to be a new version to fix a problem of using such as internet unstable or not compatible with other devices

- Click **Management tab(1)** → Click **Device Management(2)** → Click **Local Upgrade(3)**
- Click **Browse...(4)** Choose the required file after that the system will upgrade automatically
- After upgrade finish, you can Login to other settings

11. Restore to Default

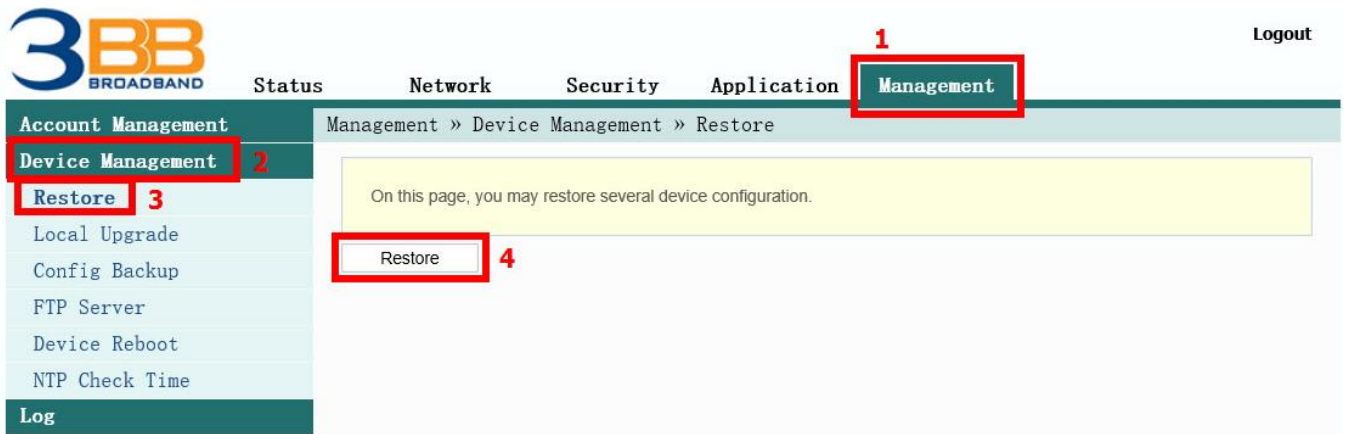There are two steps can restore to Default

Step 1 Hardware (Device reset)

- Press the Router Hardware(Reset) button and hold for 10 seconds, after that the router will restart to be **default**

Step 2 Software(System Reset)
- Click **Management(1)** --> **Device Management(2)** --> Click **Restore(3)**
- Click **Restore(4)** Restore factory defaults
- Restore Default finished

12. Ping and Traceroute
12.1 How to Ping Test
Ping Test is using in case of connection test between ONT and destination website to check that website, if it can use normally
- Click **Application(1)** --> Click **Diagnosis(2)** --> Screen showing **Diagnosis**
- **Destination Address(3) ;** fill in **IP**, **Host Name** or **Website**
- Click Ping**(4)** to start connection test
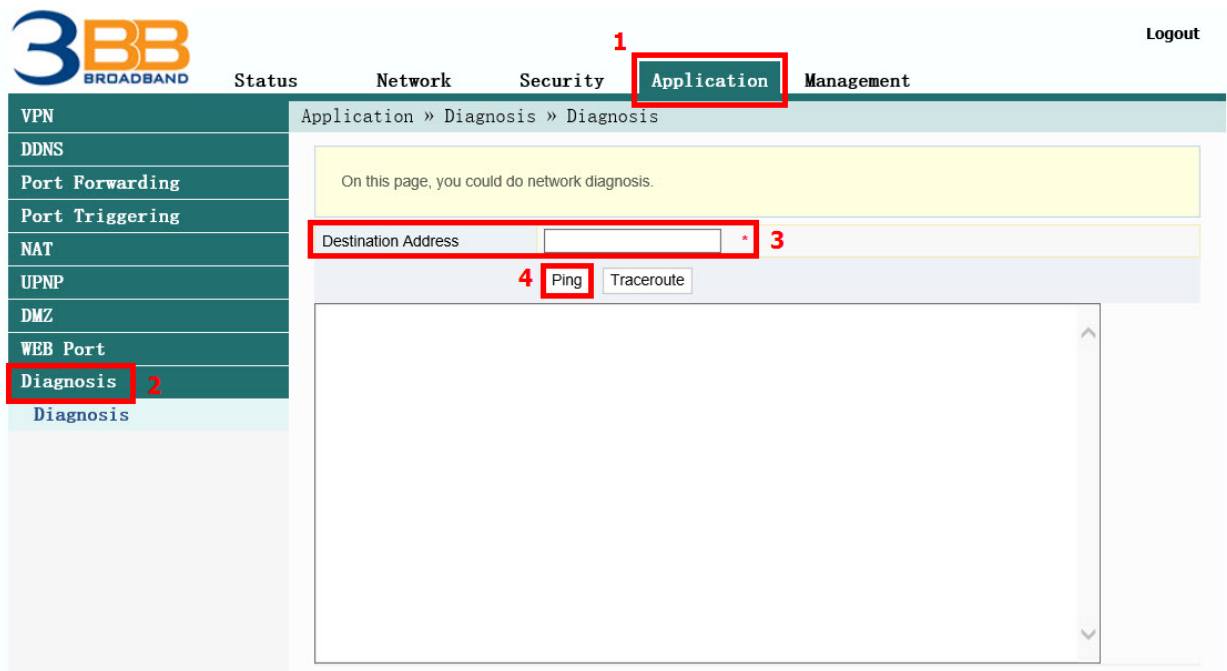
12.2 Traceroute Test
You can use Traceroute to check Server route connection use in case of cannot ping (the destination website cannot be connected)
- Click **Application(1)** --> Click **Diagnosis(2)** --> Screen Showing **Diagnosis**
- Destination **Address(3) ;** fill in **IP**, **Host Name** or **Website**
- Click **Traceroute(4)**

Note :
- If ONT and the destination website can be connected will show connection such as Reply from and usage times.
- If ONT and the destination website cannot be connected will show "Ping request could not find host Please check the name and try again"

13. Hardware Installation
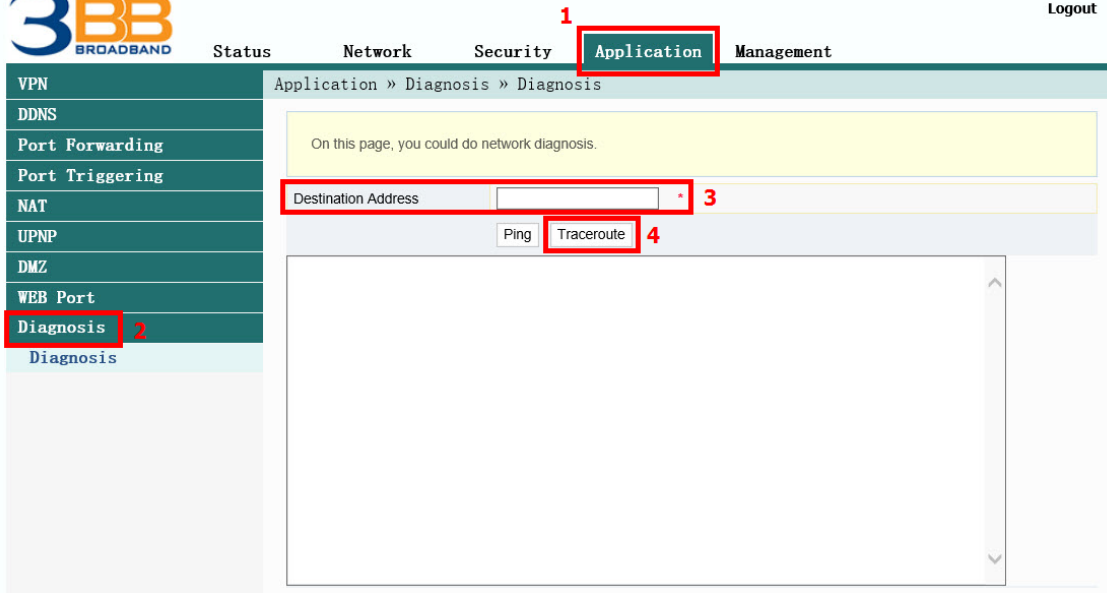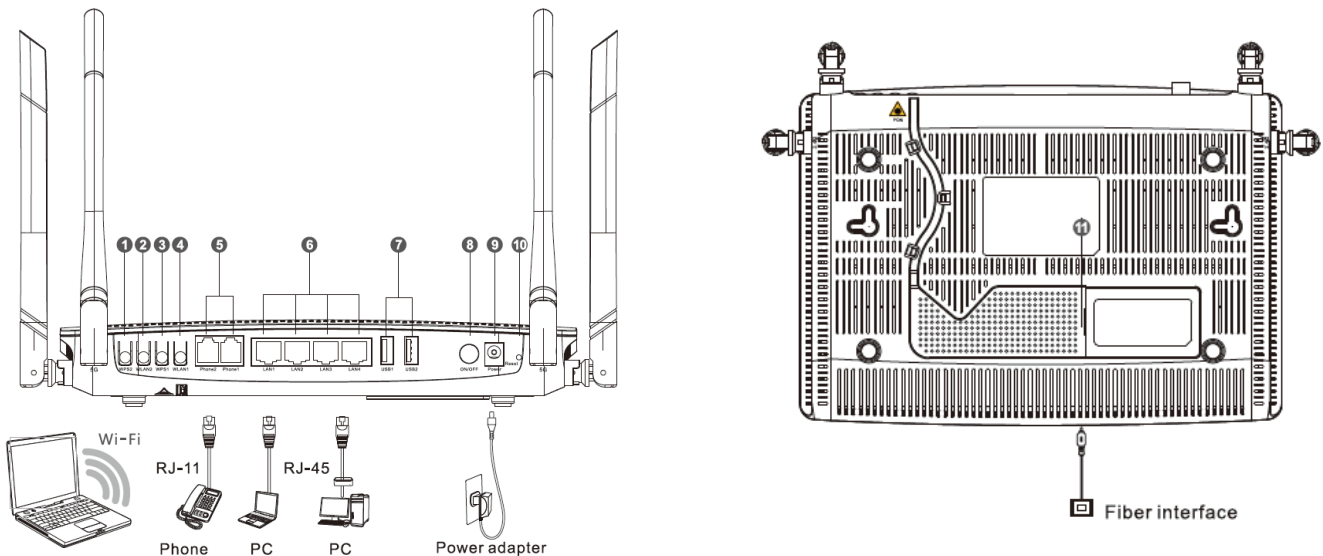
Step 1 : Connect the optical fiber cable to the PON port of the GPON Terminal. **(11)**
Step 2 : Connect LAN cable from Port Lan of GPON Terminal to LAN Port of Computer. **(6)**
Step 3 : Connect the AC Adapter to the Power Port. (DC-IN)**(9)**
Step 4 : Press the **ON/OFF** button to turn on the device **(8)**

The following table describes the interface of the device:

No.	Port/Button		Description
1	Button 5G WPS	WPS2	The Wps1 buttom to enable or disable the 5 Wi-Fi Protected Setup function
2	Button 5G wireless	WLAN2	The WLAN1 button to enable or disable the 5 WLAN function.
3	Button 2G WPS	WPS1	The Wps1 buttom to enable or disable the 2.4 Wi-Fi Protected Setup funtion
4	Button 2G wireless	WLAN1	The WLAN1 button to enable or disable the 2.4 WLAN function.

5	Port Tel	Phone1,Phone2	Indicates VoIP telephone ports (RJ-11), used to connecting to the ports on telephone sets
6	Port Network	LAN1 - LAN4	The USB interface connecting to the USB storage device
7	Port USB	USB1 , USB2	Interface connecting to the power adapter.
8	Button Power	ON/OFF	The Power interface connecting to the DC Power adapter or the storage battery.
9	Port Power	Power	Press the button for a short time to reset the device; press the button for a long time (longer than 10s) to restore the device to the default settings and reset the device.
10	Button Reset	Reset	The fiber interface connecting to the optical fiber.
11	Port Optical	PON	The USB interface connecting to the USB storage device

14. Technical Specification

Type	Item	Description
Mechanical parameter	Dimension	37 mmx252mmx178mm(HxWxD)
	Weight	570 g approximately
Power supply parameter	DC	DC 12V/2.5A
Power consumption parameter	Power consumption	<15W
Environmental parameter	Operating temperature	-5°C to - 45°C
	Storage temperature	-40°C to -70°C
	Environmental humidity	10% to 90% , non-condensing

15. Product Overview

product	Function
AN5506-04-FA	- 4 GE Interfaces
	- 2 Phone Interfaces
	- Wi-Fi Interfaces (2.4GHz, 5GHz)
	- USB Interfaces

16. Packing List

Item	Quantity
GPON Terminal	1
Power Adapter	1
Ethernet Cable	1
Phone Cable	1
Quick Start	1