In-ceiling Mount Access Point

User's Manual

V1.0.0

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Foreword

General

This manual introduces the installation, functions and operations of the In-ceiling Mount Access Point (hereinafter referred to as "the AP"). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
TIPS	Provides methods to help you solve a problem or save time.
NOTE	Provides additional information as a supplement to the text.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Transportation Requirements

Transport the device under allowed humidity and temperature conditions.

Storage Requirements

Store the device under allowed humidity and temperature conditions.

Installation Requirements

WARNING

- Do not connect the power adapter to the device while the adapter is powered on.
- Strictly comply with the local electrical safety code and standards.
- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Do not leave outdoor models of the device hanging in the air or facing outwards when installing onto poles that are on top of buildings.

- Do not place the device in a place exposed to sunlight or near heat sources.
- Put the device in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- Do not connect the device to two or more kinds of power supplies, to avoid damage to the device.
- The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective earthing.
- The device must be grounded by a copper wire with a cross-sectional area of 2.5 mm^2 and a ground resistance no more than 4 Ω.
- Voltage stabilizer and lightning surge protector are optional depending on the actual power supply on site and the ambient environment.
- To ensure heat dissipation, the gap between the device and the surrounding area should not be less than 10 cm on the sides and 10 cm on top of the device.
- When installing the device, make sure that the power plug and appliance coupler can be easily reached to cut off power.
- Outdoor models of the device must be securely installed on poles or brackets that are perpendicular to the ground. Make sure the entire surface of the device and all its related components are covered with anti-oxidation coating (such as rust preventive paint), and that the installation site and height of the device meet the requirements of the plan.
- Install outdoor models of the device on top of buildings where there is little to no direct sunlight to avoid the device becoming overheated. Make sure to take all necessary measures to protect the device.
- Face the side with the Ethernet port downwards, and arrange the wires in a downward direction when installing outdoor models of the device.

Operation Requirements

WARNING

- Do not disassemble the device without professional instruction.
- Operate the device within the rated range of power input and output.
- Make sure that the power supply is correct before running the device.
- When removing the cable device first to avoid personal injury.
- Do not unplug the power cord on the side of the device when the adapter is powered on.

- Use the device under allowed humidity and temperature conditions.
- This is a class B product. In a domestic environment this may cause radio interference in which case you may be required to take adequate measures.

Maintenance Requirements

WARNING

- Do not disassemble it unless necessary.
- Power off the device before maintenance.
- Mark key components on the maintenance circuit diagram with warning signs.

1 Overview

1.1 Indicator Description

Figure 1-1 Product overview



The number of indicators of the device might differ depending on different models. Refer to actual devices.

Table 1-1 Indicator status

Indicator	Normal status	Description
	Red flashes Green off Blue off	System normally starts.
	Red solid on Green off Blue off	System fails.
	Red off Green flashes Blue flashes	2.4GHz Wifi normally starts. 5GHz Wifi normally starts.
	Red off Green off Blue flashes	Only 5GHz Wifi normally starts.
	Red off Green flashes Blue off	Only 2.4GHz Wifi normally starts.

1.2 Port Description

The ports differ depending on the models. The figure is for reference only, refer to the actual products.

Figure 1-2 Port disgram

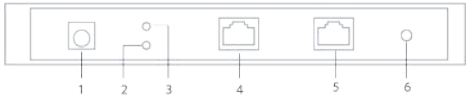
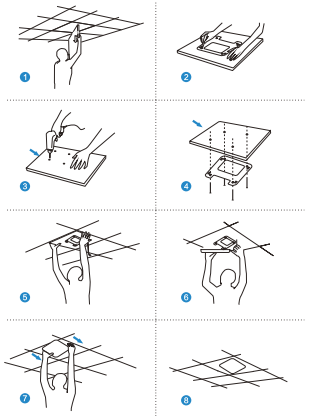


Table 1-2 Port description

No.	Name	Description
1	DC	Power port.
2	LAN indicator	LED indicator. The light is on when connecting network cable.
3	WAN indicator	
4	WAN/PoE port	Connects to Extranet. You can connect to ADSL modem or broadband. Under the AP and repeater mode, you can switch WAN to LAN.
5	LAN port/Console	Connects to LAN devices/debug equipment.
6	Reset	Reset button. Restore to the device to default settings. Press and hold the button for over 10 s after the device powers on, and then the device can restart.

2 Installation

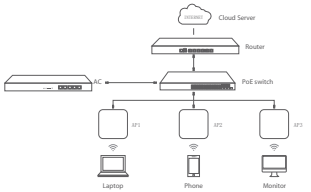
Figure 2-1 Installation procedure



3 Connection

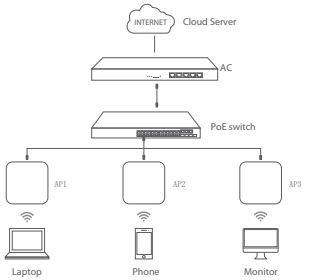
ByPass Mode

Figure 3-1 Bypass mode



AC Gateway Mode

Figure 3-2 AC gateway mode



- If the in-ceiling AP adopts a power supply of PoE 24 V, use a PoE switch or a PoE adapter with a power supply of 24 V.
- If the in-ceiling AP adopts a power supply of PoE 48 V, use a switch with a power supply of IEEE802.3at standard.
- When the wireless scale is large and uses more in-ceiling APs, we recommend using a AC wireless controller to manage all the APs.

4 Device Management

4.1 Management on Webpge

4.1.1 Wireless Connection

Procedure

Step 1 Set the IP address of the wireless adapter as 192.168.1.X (X ranges from 1 to 254), keep the network segment same as the AP's, and then set subnet mask as 255.255.255.0.

Step 2 Set wireless connection after setting IP address. Select **DAHUA_Wireless_XXXXXX**, click **Connect** , input your password, and then click **OK**.

No password by default.

4.1.2 Wired Connection

Set the IP address of the wired adapter as 192.168.1.X (X ranges from 1 to 254), and keep the network segement same as the AP.

4.2 AP Mode

Procedure

Step 1 Open the IE browser, enter the web address of 192.168.1.110. For the first login, you will be directed to the following page to change the login password.

The defaulted login password is admin.

Figure 4-1 Change password



Step 2 The default is the fit AP mode, and you can click to switch to the fat AP mode.

Figure 4-2 Fit AP



Step 3 After converting to Fat AP, you need to login again.

Figure 4-3 Login again



Step 4 After logging in, and then select the AP mode as the current working mode.

Figure 4-4 AP mode



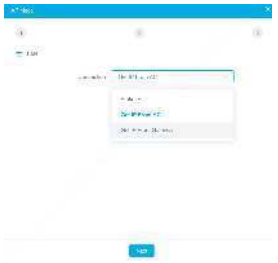
Step 5 Select **Country Region**.

Figure 4-5 Select country



Step 6 Select **Get IP From AC** from the **Connection**.

Figure 4-6 Connection method



Step 7 Enter **2G WiFi** page, and then set the parameters.

Figure 4-7 2G WiFi



Step 8 Enter **5G WiFi** page, and then set the parameters.

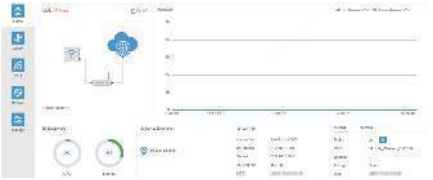
Figure 4-8 2G WiFi



4.3 IP Settings and Status Checking

- IP Settings: Wireless AP will restart and enter the set working status after finishing IP settings. Set the IP address as automatically require, so that the computer and other wireless devices can connect to the previous-level router, and access network.
- Status Checking: Manually set the IP address of the computer as 192.168.1.X (X ranges from 1 to 254), and then realize the access and status checking of the wireless AP management.

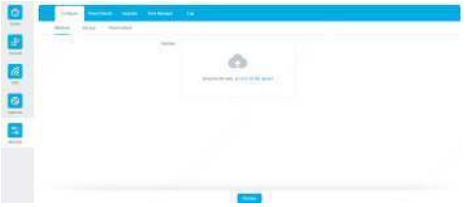
Figure 4-9 Home page



4.4 Configuration Management

You can configure restore settings, backup and resetting to default. You can also set soft restart of the device, modify the web login password, upgrade the firmware, manage time, and count system logs.

Figure 4-10 Configuration management



4.5 Testing Wireless

Procedure

Step 1 Test the wireless network is available through laptop or phone, click to select the set wireless SSID. Enter the right password and test the network connection.

Step 2 Check whether the status, signal quality, signal speed, message sending and data of the wireless connection are normal. Click to view the detailed information, check whether the IP address and DNS server are correctly acquired to make sure the normal function of the device.

Figure 4-9 Gateway mode



Gateway Mode

Figure 4-10 AP mode



AP Mode

4.6 Others

- Gateway mode
  Enable router functions. WAN port connects to modem (ADSL modem or optical fiber modem) to dial up to access Internet, or WAN port to access Internet through static IP or dynamic IP.
- AP mode
  Disable all the WAN functions, including NAT, DHCP, and firewall. All the wireless ports and wired ports are connected together.

Configuration method
Configure according to the setup wizard of all modes, set parameters and options, click **Next** to complete all the settings.

5 FAQ

Questions	Solutions
Forget the login username and password.	Restore the device to default settings, press and hold the Reset button for over 10 s, and then release the pressing. The device will restart and restore to factory settings.
Cannot log in to the wireless AP management page through web.	1. Check whether the IP address and the AP are on the same segment. Check whether the IP address is manually configured to other segment. 2. Restore the wireless AP to the factory settings, and try connecting again. 3. Make sure that the IP 192.168.1.110 of the wireless AP is not occupied by other devices. 4. Check the computer of the network cable. We recommend using unshielded twisted pair as the network cable.
Forget the password of the wireless network.	1. Connect wireless AP with cables, enter the web management page. Click wireless setting and basic setting. Enter the password again in the secret key. 2. Restore to the factory settings, there is no password is by default.
Cannot acquire IP address.	1. Check whether the device has enabled the DHCP server under the gateway and wireless ISP client modes. 2. Check whether the upper network connection is normal or the DHCP server works normally in the LAN under the repeater and AP modes.
How to switch from fit AP to fat AP.	Click to switch between fit and fat AP. After switch, the device will restart automatically. After restarting, clear the IE browser cache and log in through web. After switching to fat AP, EAC product cannot configure devices in batches.
AC list cannot recognize the AP devices.	AC has different modes with AP. AC products are EAC series managing fat AP mode, or the BW series managing fit AP mode. AP adopts a fit and fat combined mode. The default mode is fit AP.