

DH-EAP Ceiling Series Wireless Access Point

V1.0.2

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Foreword

General

This manual introduces the installation, functions and operations of the Ceiling 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. They mean the following:

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

Store the device under allowed humidity and temperature conditions.

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 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 mm² and a ground resistance no more than 4 Ω.
- 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 power.

Operation Requirements



- 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



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



Note: AP's appearance shall be subject to actual product model

01 Overview

1.1 Indicating light description



The number of ports and indicators of the equipment may vary with different models. Please refer to the actual equipment.

Tab. 1-1 Indicator status

one Indicator Lamp	state	explanation
	Red light always on	System is starting OR in fault
	Light blue light always on	2.4GHz WiFi in service 5GHz WiFi in service
	Purple light always on	Only 5GHz WiFi in service
	Light green light always on	Only 2.4GHz WiFi in service

1.2 Port description



Ports may vary with different models. Please refer to the actual equipment.

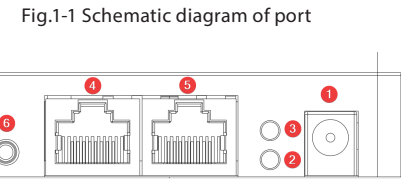


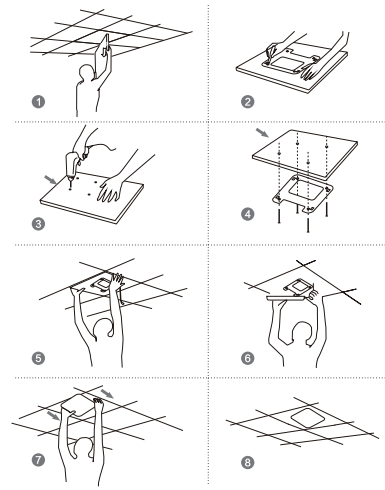
Fig.1-1 Schematic diagram of port

Tab.1-2 Interface description

NUM	Interface Name	Meaning
1	DC	Power input.
2	LAN indicator lamp	LED indicator lamp.
3	WAN indicator lamp	When connected to other equipment through network cable, the LED indicator is on.
4	WAN/PoE port	Connect to external network. Connect optical modem or Internet interface.
5	LAN port	Connect computer, set-top box and other equipment requiring wire connection.
6	Reset	Key for reset. Restore the equipment to the factory state. When the device is powered on, press the button for more than 10 seconds to restore the device to the factory settings.

02 Mounting

Fig. 2-1 Installation diagram



2.1 Installation steps

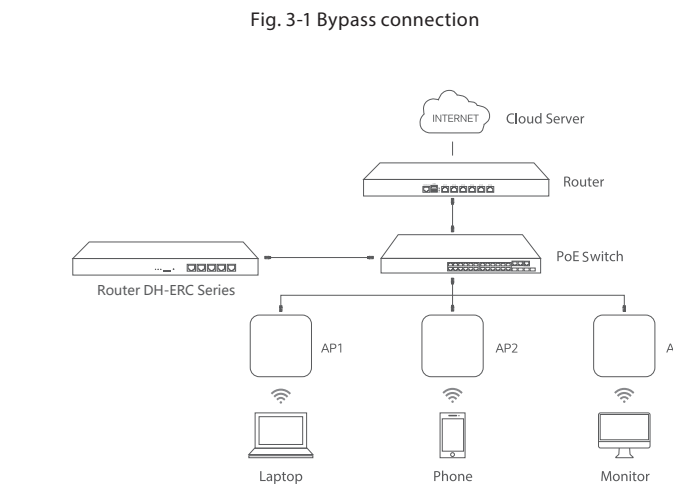
Steps (take Ceiling AP ceiling installation as an example)

- Determine the installation position of wireless AP (maximize the signal coverage as much as possible, and there is power socket and network cable interface near the installation position), and remove the corresponding ceiling.
- Place the installation buckle in the center of the ceiling and mark the positions of 4 screw holes with a marker pen.
- Drill 4 screw holes of 4mm diameter on the ceiling according to the marked positions.
- Fix the mounting buckle to the ceiling with screws.
- Return ceiling with mounting buckle to selected location.
- Align the buckle of the mounting buckle with the slot on the back of AP.
- Push AP with proper force until you hear "click", which means it is fixed.
- The AP installation is complete.

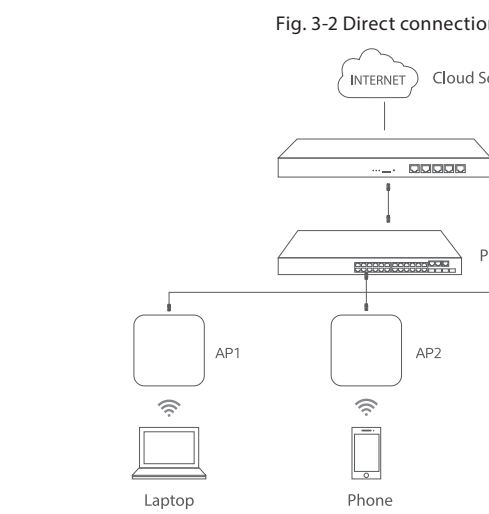
03 Network Construction

3.1 Fit AP mode network construction

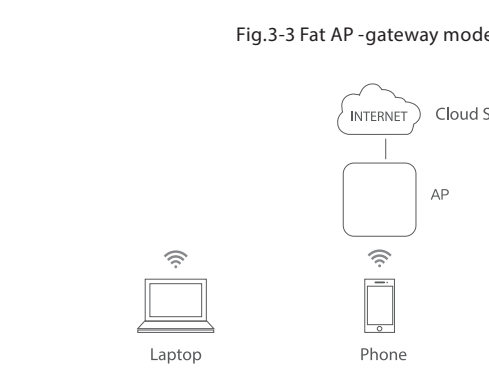
3.1.1 Bypass connection



3.1.2 Direct connection

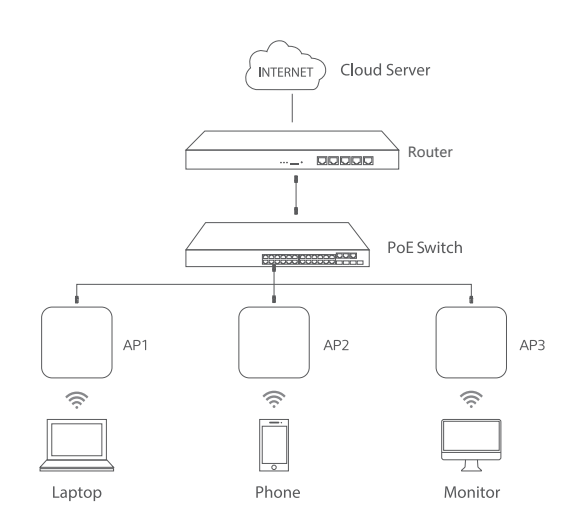


3.2 Fat AP mode network construction



- If the in-ceiling AP adopts a power supply of PoE 48V, use a PoE Switch with a power supply of IEEE802.3at standard.
- When wireless scale is large and more AP is used, we recommend using AC controller to manage all AP's.

Fig.3-4 Fat AP mode



04 Device Management

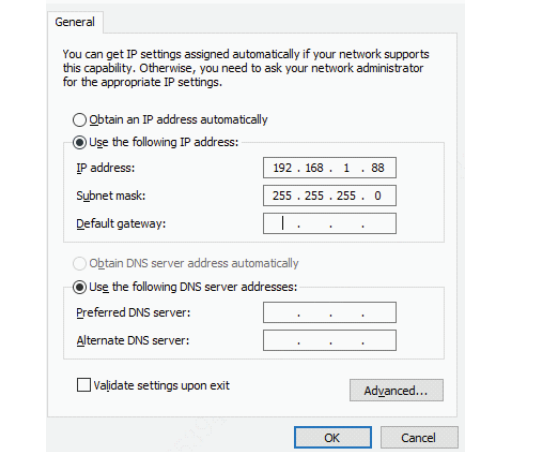
4.1 Management on web

4.1.1 Wired connection

Procedure

- Connect AP LAN port to PC.
- Right click the network icon in the bottom right corner of the PC and select "Open Network & Internet Settings".
- Click Ethernet on the settings page and select "Change adapter options".
- Right click Ethernet and select "Properties".
- Double click "Internet Protocol Version 4 (TCP/IPv4)".
- Set the IP address of the PC as 192.168.1.10, keep the network segment same as the AP's, and then set Subnet Mask as 255.255.255.0.

Fig.4-1 Internet settings



Step 7 Open the browser, enter the http://192.168.1.10 in the address bar, press enter, and then jump to the web management page.



No password by default.

4.1.2 Wireless connection

Procedure

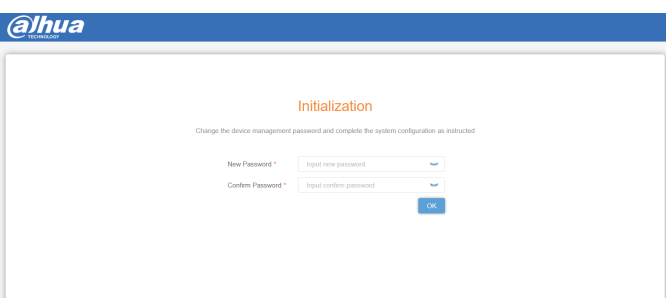
- Search for a wireless network with the Wi-Fi name "DAHUA_ Wireless_ XXXXXX" through a wireless terminal (default not encrypted, XXXXXX is the last 6 digits of the AP SN code).
- Refer to wired methods and set the IP address of the AP as 192.168.1.X, keep the network segment same as the AP's, and then set Subnet Mask as 255.255.255.0.
- Open the browser, enter the 192.168.1.10 in the address bar, press enter, and then jump to the web management page.

4.2 AP mode

Procedure

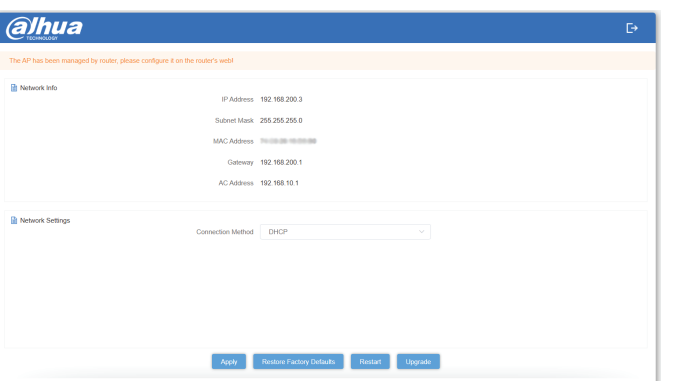
- Enter the password initialization page for the first time (without entering the management account), set the login password, and use the new password to access the device web.

Fig. 4-2 Login



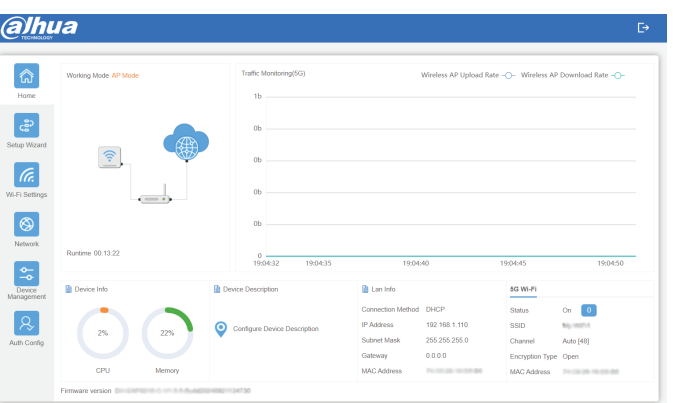
Step 2 When the WAN port of the AP is connected to AC, the default page is the Fit AP Mode.

Fig. 4-3 Fit AP



Step 3 When the WAN port of the AP is not connected to AC, the WEB page switches to Fat AP Mode.

Fig. 4-4 Fat AP



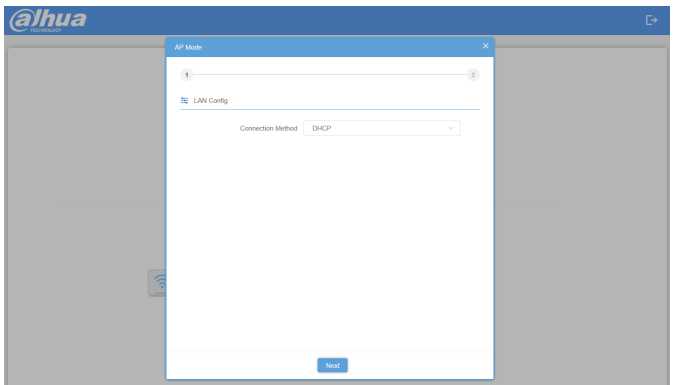
Step 4 In the setting guide page, select AP Mode as the Current Mode.

Fig. 4-5 AP mode



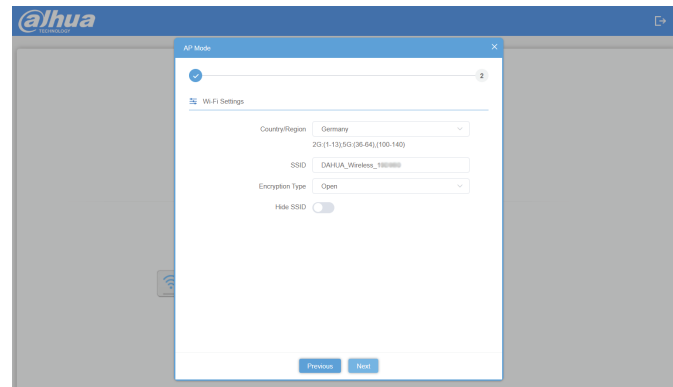
Step 5 Enter the setting page of AP Mode, select "DHCP" from the Connection Method and click "Next".

Fig.4-6 Connection method



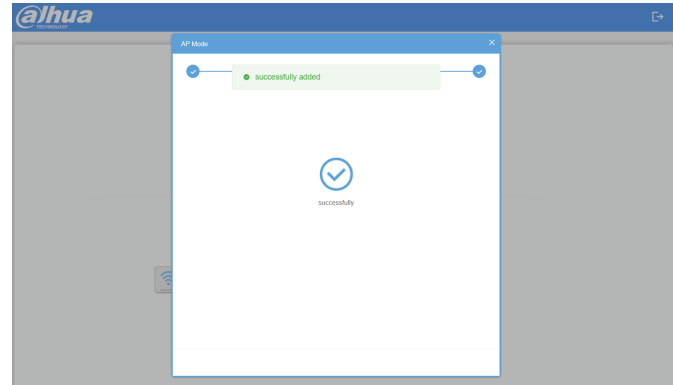
Step 6 Enter the Wi-Fi Settings page, set the Country/Region, SSID, Encryption Type and whether to Hide SSID. As follows:

Fig. 4-7 Wi-Fi settings



Step 7 Configure successfully as follows:

Fig. 4-8 Configure successfully



4.3 Wi-Fi settings

In Wi-Fi settings, you can add SSID, set SSID name, Encryption Type, Wi-Fi Password, Band and VLAN ID. The Advanced Wi-Fi Settings in Wi-Fi Settings can set the Country/Region, Prioritize 5G, 2.4G and 5G RF parameters, etc.

Fig. 4-9 Wi-Fi settings

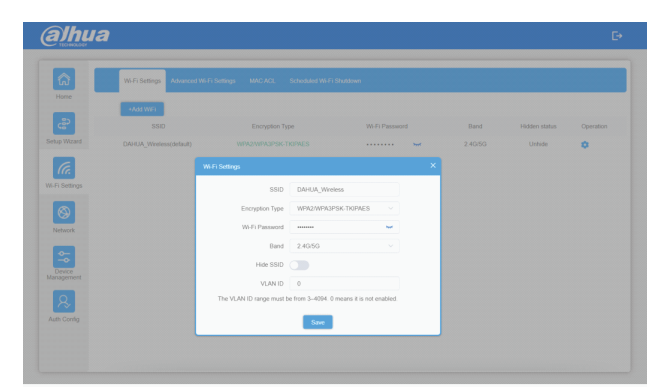
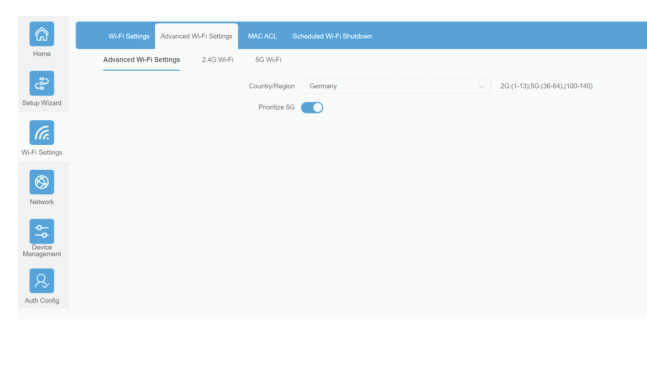


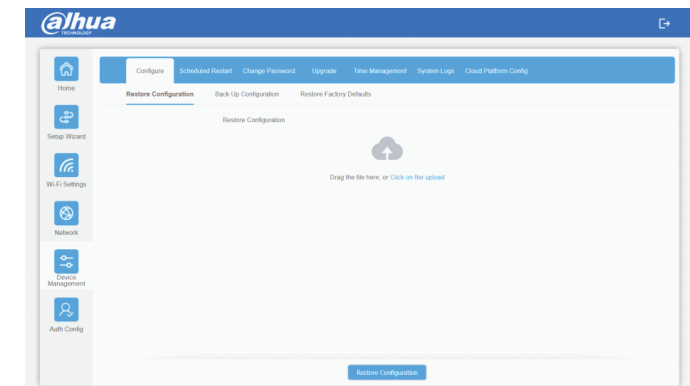
Fig. 4-10 Advanced Wi-Fi settings



4.4 Device management

Set Restore Configuration, Back Up Configuration or Restore Factory Defaults through menu Items of Device Management. Scheduled Restart of the device is also possible; WEB login password changing, firmware Upgrade, Time Management, Statistics of System Logs and other function settings.

Fig. 4-11 Device management



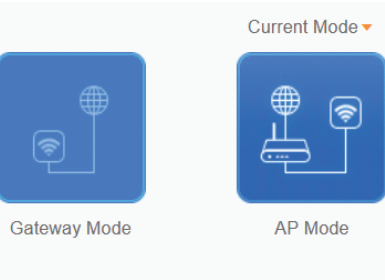
4.5 Testing wireless

Procedure

Test the wireless network is available through laptop or phone, Click to select the Wireless SSID. Enter the right password and test the network connection.

4.6 Others

Fig. 4-12 Mode



Gateway mode

Supporting routing function. WAN port is connected to the optical modulator and connected to the Internet via PPPoE, DHCP or static IP.

AP mode

In this mode, NAT, DHCP, firewall, and all WAN related functions are turned off. All wireless interfaces and wired interfaces are bridged together without distinguishing LAN and WAN.

Configuration method

Configure parameters and options according to the Setup Wizard for different modes, and then click **Next** until all settings are complete.

05 Adding the Device to DoLynk Care

Adding the device to DoLynk Care

Add the device to DoLynk Care for management and maintenance.



- Before adding devices, make sure that the device is connected to power and the network.
- Make sure that your phone has enabled Wi-Fi function.
- Make sure you have downloaded the DoLynk Care App, you can also complete device addition operation by visit the DoLynk Care Web(https://care.dohuasecurity.com).

Fig.5-1 DoLynk Care App

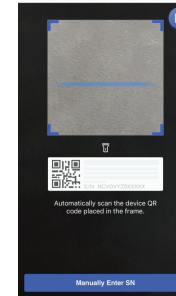


You can add devices by scanning the QR code or manually entering device SN in the wireless or wired network.
You can find the QR code in device label or visit device Web-> Device Management -> Cloud Platform Config.
If you want to add Fat AP, please change the AP to Fat mode.
If you want to add Fit AP, just connect it to DH-ERC Router in advance, after add AC to cloud the Fit AP will be automatically added.

Procedure

- On the Home screen, tap and then it goes to sites screen.
- Tap on the upper-left corner to switch to device mode.
- Tap to add a device.

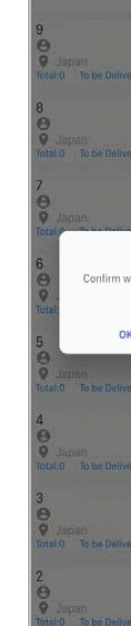
Fig. 5-2 Adding a device



Step 4 Scan device QR code, or tap Manually Add to manually enter device SN.
Step 5 Select a site, and then tap OK.
Step 6 On the Add Device screen, select a device type.

Fig. 5-3 Selecting a site

Fig. 5-4 Select device type



Step 7 If the device you are adding is uninitialized, enter password and confirm it again, and then tap **Initialize the device** to complete initialization.
Step 8 Tap **Save**, and then you can view the device is added successfully.

Fig. 5-5 Device initialization

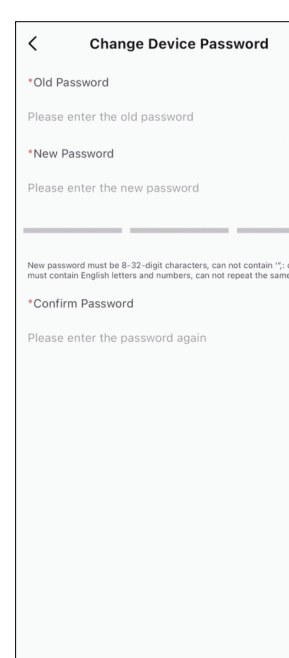
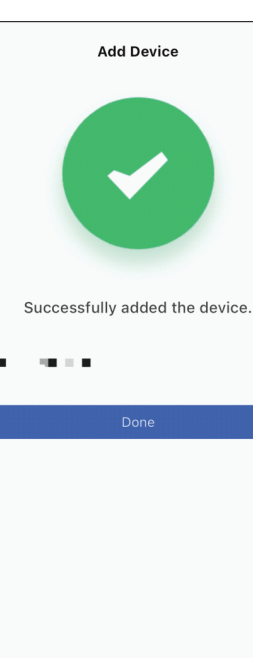


Fig. 5-6 Successfully added



Related operations

- To filter devices, tap on the right corner of the site screen, and then filter by device type (storage, camera, video intercom, and switch), device status (online, offline and abnormal) and entrusting status (entrusting, pending delivery, and delivered).
- To search for a device, channel or a site, tap on the upper-right corner of the site screen, and then enter keywords.

06 FAQ

Questions	Solutions
Forget the login username and password.	Restore the device to default settings, press and hold the Reset button for over 10s, 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 by default.
Cannot acquire IP address.	1. Check whether the device has enabled the DHCP server under the gateway and wireless IP 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 devices 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.