AX PRO

Configuration and Operation Guide

Legal Information

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The symbols that may be found in this document are defined as follows.

Symbol	Description	
<u>^</u> i Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.	
<u>Î</u> Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.	
iNote	Provides additional information to emphasize or supplement important points of the main text.	

Regulatory Information

EN 50131-1:2006+A2:2017

EN 50131-3:2009

EN 50131-6:2017

EN 50131-5-3:2017

EN 50131-10: 2014

EN 50136-2: 2013

Security Grade (SG): 2

Environmental Class (EC): II

DP2



Note EN50131 compliance labeling should be removed if non-compliant configurations are used.

EU Conformity Statement







This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, RE Directive 2014/53/EU, the RoHS Directive 2011/65/EU

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:www.recyclethis.info

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Chapter 1 Introduction

1.1 System Description

AX Pro is a wireless alarm system designed to protect premises required for proper protection from intrusion alarm. It supports LAN /Wi-Fi as the primary transmission network, and GPRS/3G/4G LTE as the secondary transmission network. The system is applicable to the scenarios of market, store, house, factory, warehouse, office, etc.

- Innovative Tri-X 2-way wireless technology.
- Two-way communication with AES-128 encryption.
- Frequency-hopping spread spectrum (FHSS) is used to avoid interference, to prevent eavesdropping, and to enable code-division multiple access (CDMA) communications.
- Voice guide for alarm alert, system status indication, operation prompt, etc.
- Configuration via web client, mobile client, and Convergence Cloud.
- Pushes alarm notification via messages or phone calls.
- Views life videos from Hik-Connect and alarm video clips via emails, Hik-ProConnect, and Hik-Connect.
- Uploads alarm reports to ARC.
- SIA-DC09 protocol, and supports both Contact ID and SIA data format.
- 4520 mAh lithium backup battery with 12 H standby duration.

1.2 Specification

		AX PRO	
		64 Series	96 Series
	Areas	16	32
	Zones	Lin to CA	Un to OC
	Outputs	Up to 64	Up to 96
	Tag Readers	11.1.0	11.1.0
Compaitu	Keypads	Up to 8	Up to 8
Capacity	Sounders	4	6
	Repeaters	2	4
	Keyfobs	32	48
	Tags	32	48
	Tag Reader built-in	×	√
	Installer	1	1
User	Administrator	1	1
	Normal Users	30	46
	Voice Prompts	٧	٧
	Voice Prompt Language	English, Italian, Spanish, Franch, Russian, Portuguese, Germany, Polish	
Functional Web Client		V	٧
Features	Diagnostics	V	٧
	SMS Notification	V	٧
	Voice Call Notification	V	٧
	Event Log Records	5000 including 1000 mandatory ^a	
	PIR Camera Support	٧	√
	IVaaS Storage	×	4 clips x 7 sec
	Ethernet	10/100 Mbps self-adaptive	
Communication	WiFi	802.11b/g/n (2.4GHz)	
interfaces	GPRS	٧	×
interfaces	3G/4G LTE	×	√
	SIM slot	Single	Dual
	ATS Category ^a	DF	22
	Primary Trasmission Path	LAN / WiFi	
ARC Signalling	Secondary Transmission Path	ransmission Path GPRS or 3G/4G LTE	
	Acknowledgement Operation ^a	Pass-through	
	Protocols	ls SIA-DC09 ^b , ISUP 5.0	
Cloud Services Hik-ProConnect Service √		٧	

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	Hik-Connect Service	V	√
	Wall-Switch	V	V
Automation	Relay Module	٧	√
	Smart Plug	٧	٧
	PS Type ^c Type A		A
	Mains Input ~ 100-240V 50/60Hz 0.3A(Max)		
Danier Comple	Battery Pack Lithium-ion polymer battery built-in		battery built-in
Power Supply	Battery Capacity ^d 4520 mAh		Ah
	Battery Standby ^e	Up to 12 hrs	
	Recharge Period	4 hrs to 8	80%
Environmental	Operating Temperature	-10°C to	50°C
Requirements	Relative Humidity	10% ~ 90% none	condensing
Size & Weight	Dimension (W×H×D)	170.0 mm (6.7") × 170.0 mm	ı (6.7") ×38.6 mm (1.5")
	Weight	557.5 g (19	9.7 oz)
	EN 50131	SG 2 EC	CII
Approvals	CE	√	
	Rohs/Reach/WEEE	V	
a b	As per requirements defined in EN 50131-1:2006+A2:2017 AX Pro wireless control panel adopts pass-through mode of acknowledgement operation. Both positive and negative acknowledgement from the transceiver of receiving center will be recorded. Event log description Positive acknowledgement ARC Uploaded Negative acknowledgement ARC Communication Failed AX Pro wireless control panel is compatible with SIA IP Reporting (UDP/TCP-2013) as per ANSI/SIA DC-09-2013: Internet Protocol Event Reporting. The control panel supports tokens (protocols) of ADM-CID and SIA-DCS defined in SIA DC-07-2001.04, which will be modified to insert a "*" before token name as *ADM-CID and *SIA-DCS when the data and timestamp of transmission message are AES encrypted. AES-128, AES-192 and AES-256 are all supported.		
С	As per EN 50131-1:2006+A2:2017, 9.1 Types of power supply		
d	Nominal value. Actual capacity may vary slightly. The actual battery capacity for each individual device may be slightly above or below the nominal battery capacity. Removing the battery may cause damage to the device. To replace or repair the battery, please contact your installer.		
е	In the condition of Wi-Fi connected, GPRS/3G/4G LTE connected, ARC connected (polling interval: 1800 s), 8 inputs and 1 keypad accessed, and cloud		

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_	
9	service accessed.
Note	
• •	ernet protocol that is used for accessing the third-party platform, which
supports alarm repor	t uploading, AX PRO management, and short video uploading.
Note	
Standard DC-09 Proto	ocol:
ADM-CID: The data p	resenting method of DC-09 is CID, which is not encrypted and only for
uploading alarm repo	ort.
*ADC-CID: The data	presenting method of DC-09 is CID, which is encrypted and only for
uploading alarm repo	ort.
SIA-DCS: The data p	resenting method of DC-09 is DCS (also called SIA protocol), which is not
•	or uploading alarm report.
	presenting method of DC-09 is DCS (also called SIA protocol), which is
encrypted and only for	or uploading alarm report.

1.3 Appearance

Front Panel

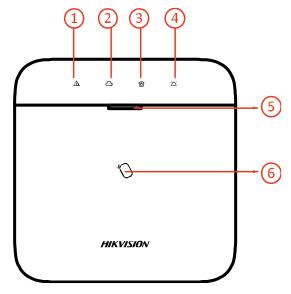


Table 1-2 Front Panel Description

Table 1-2 Front Faller Description		
No.	Name	Description
		Solid Orange: In the disarming status, the LED indicates alarm (such as panic alarm, zone alarm, tampering alarm, etc.) and fault (such as operation fault, connection fault, etc.)
1	Alert Indicator	 The indicator or voice notifications will not response to any operation made by level 1 users. Notifications will only response when level 1 user presents or uses a valid tag or keyfob. The device will prompt detailed alarm or fault information while the authorized users disarm the system.
2	Link Indicator	Solid Green: The panel is bound to Hik-connect account Off: The panel is not bound to Hik-connect account
3	Arm/Disarm Indicator	Solid Blue for 5 s: Armed Green Flashes Twice: Disarmed Note

No.	Name	Description
		If the function of Arming Indicator Keeps Light is enable, the LED keeps solid blue when armed, and off when disarmed. The function does not compliant with EN standard.
		Flashing Red: Alarm Occurred
4	Alarm Indicator	Solid Red: Device Tampered
		Off: No Alarm
_	5 Power Indicator	Solid Green: Power on
5		Off: Power off
6	Tag Present Area	

Component and Interface

Remove the rear cover, and some of the components and interfaces are on the rear panel.

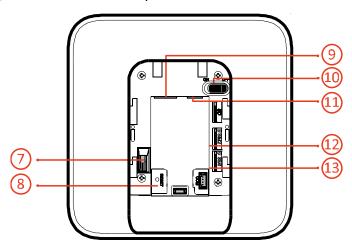


Table 1-3 Rear Panel Description

Number	Description	
7	Tamper Switch	
8	Reset Button Note Restart the device, the power LED flashes 3 times, and hold the reset button for 5 s. The voice prompt indicates the operation result. Press the button to switch the STA and Hotspot mode.	
9	Power Interface	

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Number	Description	
10	Power Switch	
11	Network Interface	
	SIM Card Slot 1	
12 The function of GPRS or 3G/4G (implemented with built-in SIM card slot depends on the model of the device.		
13	SIM card Slot 2	
	Note The function of GPRS or 3G/4G (implemented with built-in SIM card slot) varies depends on the model of the device.	

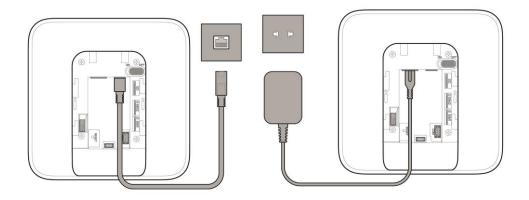
Chapter 2 Start Up

2.1 Initial the Device

While initial the device with Hik-ProConnector, the AX Pro should always be add to an installer account first. The installer account will invite and transfer ownership to the administrator account later after finishing all initial setup and test. Follow the steps below to initializing the wireless alarm system.

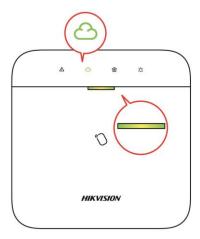
1. Connect to the network.

Connect the device to the Ethernet, and power the device on.



iNote

While the device is powered on, the power LED and link LED turn green.



2. Create a site

Open the Hik-ProConnect and login with the installer account.

A site is the place where the alarm system deployed. Create a site where the device can be added to with it's site name and address. The owner of the site would be an end user, usually regarded as administrator.

3. Add Device

Open the site. Tap Add Device and scan the QR code on the label of the panel.

The control panel will be added to the site created and managed by the installer account, which also means that the installer account was created in the panel.

The installer now can perform configuration and tests of the panel before deploying. Both Hik-ProConnect Service and local web client can be logged in with the Hik-ProConnect installer account.

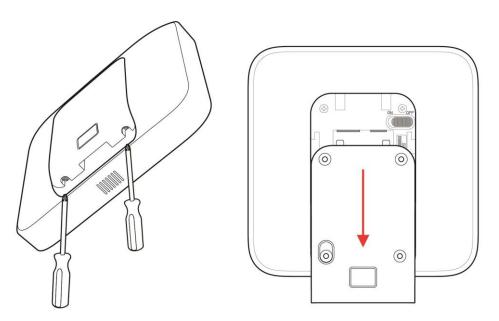


While initial the device with Hik-connect, you do not need to build a site first. Download and login the App, and add the device by scanning QR code or enter the device serial No..

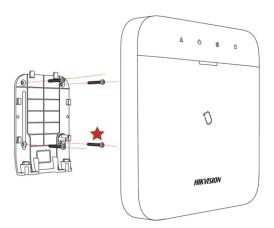
2.2 Install the Device

Steps

1. Loosen the screw on the rear cover. Slide down the rear cover and remove it from the AX PRO.



2. Secure the rear cover to the installation position with the supplied screws. Attach the AX PRO on the rear cover, and tighten the rear cover screw to complete the installation.



iNote

- Red Star: TAMPER Screw. It is compulsory to secure the TAMPER screw.
- No adjustments are required.
- For use within the supervised premises only.

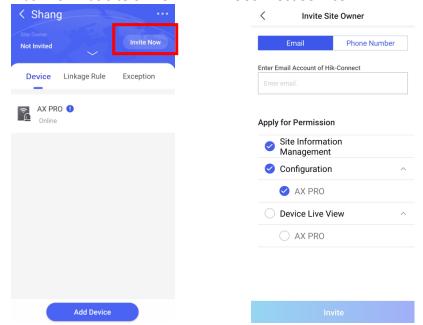
Check the RF signal strength before connection and peripheral device installation. You can view the RF signal strength indication on the peripheral device.

Chapter 3 User Management

3.1 User Management

3.1.1 Invite the Administrator

The administrator was known as site owner in Hik-ProConnect Service.

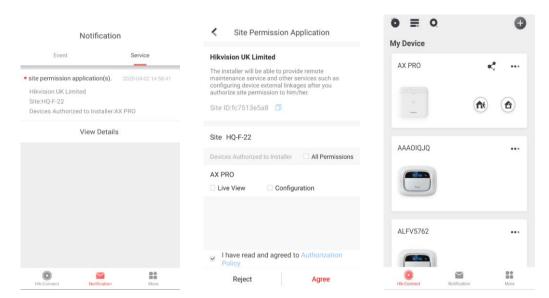


After the initial configuration finished, the installer shall invite the site owner and apply permission of site management and device configuration from the administrator account. The administrator account would be an end user account in the Hik-Connect Service.

Press "Invite Now" Button and enter the email account or phone number account to transfer the site ownership to the administrator. At the same time, the installer will apply permissions from the site owner, such as configuration and management.

Open the Hik-Connect app and login with the administrator account. The installer service request will be received at notification page. Open the notification detail to accept the installer service and setup permissions. The control panel and other devices in the site will be displayed at your device list.

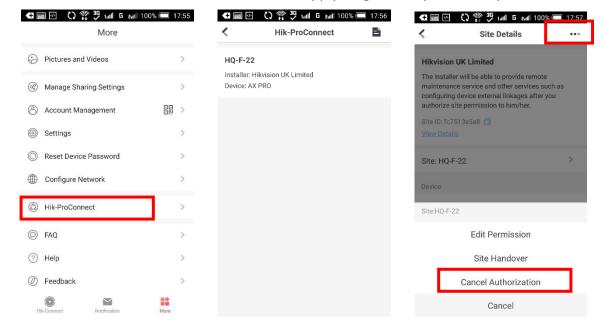
The administrator account will be added to the control panel, which could be used to login to Hik-Connect app and local web client.



3.1.2 Cancel Installer Access

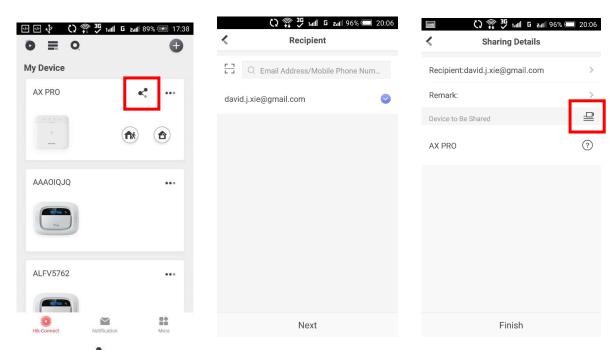
The administrator can cancel the access authorization of the installer.

- 1. Enter the page **More** and tap **Hik-ProConnect**. All sites that managed by the Hik-ProConnect Service are listed on the page.
- 2. Tap the option button at the top-right corner of the site details page, and tap **Cancel Authorization** in the prompt menu.
- 3. Confirm the operation, and the authorization of the installer will be canceled. Once the authorization is canceled, the installer need to apply it again if any access requiremen.



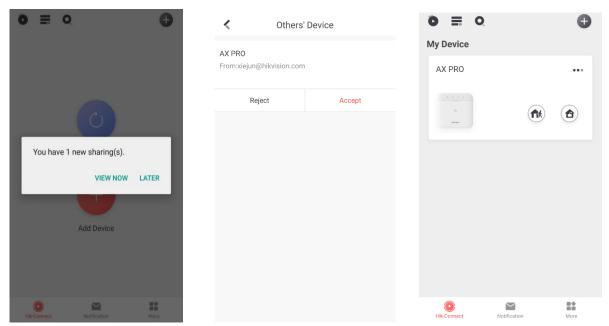
3.1.3 Add an Operator

The administrator can share the device to other operators.



- 1. Tap the share button) in the device list.
- 2. Enter the Hik-Connect account of the operator.

Administrator can also select which device to be shared.



A sharing message will be sent to the operator's account, and the operator can read the message in the Hik-Connect app.

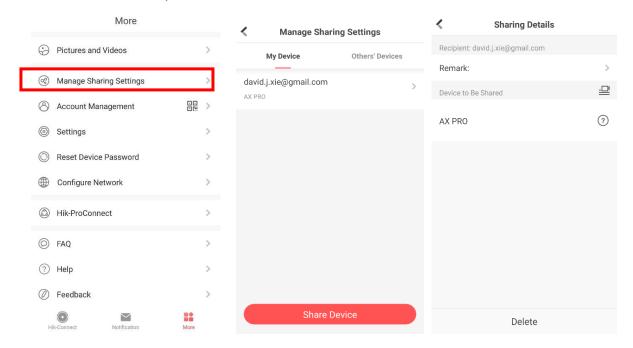
3. Accept the invitation, and the device will be listed in the device list.

The operator account will be added to the control panel, which could be used to login to Hik-Connect app and local web client.

3.1.4 Delete an Operator

Administrator user can delete an operator.

- 1. Enter the page **More** and tap **Manage Sharing Settings**.
- 2. Delete the selected operator or remove it from the device.



3.2 Access Entries

The installer and operators of the AXPRO were assigned different access levels which define the system functions that an individual user can perform. Various user entries are provided for different user roles with particular access level.

Access entries for Installers (Access Level 3)

Hik-ProConnect Service

Hik-ProConnect is a service for installers that is used to manage customers' alarm systems located in various sites remotely. Control panels can be added to an installer account on the Hik-ProConnect Service and be managed in sites.



An installer account of Hik-ProConnect Service was applied to simplify the preparation procedure of the test.

Local Web Client

Visit the device IP address that can be found out with SADP tool. The installer can login with Hik-ProConnect service account after the panel was added.

Legacy entries

Keypad PINs and tags can be also assigned with installer user at particular access level to perform essential operations.

Access Entries for Administrator and Operators (Access Level 2)

Hik-Connect Service

The Hik-Connect service can be used for end users to access and manage the devices.

Local Web Client

As soon as the panel was added to the end user account on Hik-Connect Service, the Hik-Connect account can be used to login to the web client build in.

Legacy entries

Keypad PINs and tags can be also assigned with end user at particular access level to perform essential operations.

Chapter 4 Configuration

4.1. Use the Hik-Proconnect

4.1.1 Use the Hik-Proconnect APP

The installer can use the Hik-Proconnect to configure the AX PRO, such as activation, device enrollment etc.

Download and Login the Hik-ProConnect

Download the Hik-ProConnect mobile client and login the client before operating the AX PRO.

Steps

- 1. Download Hik-ProConnect mobile client.
- 2. Optional: Register a new account if it is the first time you use the Hik-ProConnect mobile client.

i Note

- For details, see User Manual of Hik-ProConnect Mobile Client.
- You need an invitation code for registration. Please ask technical supports.
- 3. Run and login the client.

Add AX PRO to the Mobile Client

Add AX PRO to the mobile client before other operations.

Steps

- 1. Power on the AX PRO.
- 2. Create or search a site.
 - Tap +, set site name, time zone, address, city, state/province/region and tap OK to create a site.
 - Enter site name in the search area and tap Search Icon to search a site.
- 3. Tap **Add Device**.
 - Tap Scan QR Code to enter the Scan QR code page. Scan the QR code on the AX PRO.

Note

Normally, the QR code is printed on the label stuck on the back cover of the AX PRO.

Tap **Manual Adding** to enter the Add Device page. Enter the device serial No. and verification code to add the device.

4. Activate the **Device**.

Add Peripheral to the AX PRO

Add peripheral to the AX PRO.

Steps

- 1. Select a site.
- 2. Select a control device (AX PRO).
- 3. Tap the + icon.
 - Tap **Scan QR Code** to enter the Scan QR code page. Scan the QR code on the peripheral.
 - Tap Manual Adding to enter the Add Device page. Enter the device serial No. and verification code to add the device.

User Management

The installers (user of Hik-ProConnect)can manage users. If you are the administrator, you can add, edit, and delete users, and assign different permissions to the newly-added users. If you are a installer, you can only add and delete users.

Steps



There are four types of users for the AX PRO, including administrator (or owner), operator, installer (or setter), and manufacturer. Different types of users have different permissions for accessing the functionality of the AX PRO.

- 1. Enter the site, tap the AX PRO and then log in to the device (if required) to enter the AX PRO page.
- 2. Tap **Next** to invite the user.



The recipient need to accept the invitation.

- 3. Tap \bigcirc \rightarrow User Management \rightarrow User.
- 4. Tap a user to enter the User Management page.
- 5. Optional: Perform the following operations if required.

User Permission

You can tap the target user on the user list and then tap **Edit Icon** to set the permissions authorized to the target user.

Note

Only the administrator can do such an operation.

Set Linked Areas

If the target user is a an operator, tap the target user on the user list

Note

If under duress, you can enter the duress code on the keyboard to arm and disarm area(s) and upload a duress alarm.



• Configuration items and user permission will vary according to the user type.

password to the target user.

 You can view linked Tags/tags and keyfobs of the user but you do not have permission to configure them.

Example

Enter an example that illustrates the current task (optional).

What to do next

Enter the tasks the user should do after finishing this task (optional).

Tag Management

After adding Tags/tags to the wireless AX PRO, you can swipe the Tag to arm or disarm all the detectors added to specific area(s) of the AX PRO, and clear alarms.

Steps

- 1. Enter the site, tap the AX PRO and then log in to the device (if required) to enter the page.
- 2. Tap \bigcirc \rightarrow User Management \rightarrow Tag to enter the Tag Management page.
- 3. Tap + to add a Tag.
- 4. When hearing the voice prompt "Swipe Tag", you should present the Tag on the AX PRO Tag presenting area.
 - When hearing a beep sound, the Tag is recognized.

- The Tag will be displayed on the Tag page.
- 5. Optional: Tap a Tag to enter the Setting Page.
- 6. Tap Edit Icon to edit the Tag name.

Note

- If you log in as an installer, skip this step. Editing Tag name is only available to administrator.
- The name should contain 1 to 32 characters.
- 7. Slide Enable Tag..
- 8. Select a linked user.
- 9. Select the Tag type

iNote

Different linked users have different Tag permissions.

Operation Tag

You can swipe the Tag to arm or disarm.

Patrol Tag

When you swipe the Tag, the system will upload a record.

10. Optional: Tap **Delete** to delete the Tag.

System Settings

System Configuration

You can set the device time zone and set the DST time.

In the site, tap the AX PRO and then log in to the device (if required).

Tap \bigcirc **System** \rightarrow **Configuration** to enter the configuration page.

You can tap to select a time zone.

You can enable the DST and set the DST bias, DST start time, and DST end time.

System Options

Set the system options.

Option Management

In the site, tap the AX PRO and then log in to the device (if required). Tap \bigcirc \rightarrow System \rightarrow System Options \rightarrow Option Management to enter the page.

Forced Arming

If the option is enabled and there are active faults in a zone, the zone will be bypassed automatically.

System Fault Report

If the option is enabled, the device will report system fault automatically.

Voice Prompt

If the option is enabled, the AX PRO will enable the text voice prompt.

Voice Prompt of Disarming and Alarm Clearing

If the option is enabled, the AX PRO will broadcast all system faults before disarming and alarm clearing.

Note

Before enable this function, you need to enable Voice Prompt.

System Volume

The available system volume range is from 0 to 10.

Linked tamper Alarm

If the option is enabled, when tamper alarm is triggered, the AX PRO, sounders, keybords and other linked devices will upload alarm.

One-Key Locking

If the option is enabled, the installer can use the one-key locking function to lock the AX PRO.

After locking, users can not operate the device and receive messages.

Communication failure packet loss times

If the option is enabled, the system will detect interactive heartbeat between peripherals and the AX PRO. If no peripherals heartbeat is detected, the device will become offline.

Fault Check

In the site, tap the AX PRO. Tap \bigcirc \rightarrow System \rightarrow System Options \rightarrow Fault Check to enter the page.

Detect Network Camera Disconnection

If the option is enabled, when the linked network camera is disconnected, an alarm will be triggered.

Panel Battery Fault Check

If the option is enabled, when battery is disconnected or out of charge, the device will not upload events.

Wired Network Fault Check

If the option is enabled, when the wired network is disconnected or with other faults, the alarm will be triggered.

Wi-Fi Fault Check

If the option is enabled, when the Wi-Fi is disconnected or with other faults, the alarm will be triggered.

Cellular Network Fault Check

If the option is enabled, when the cellular data network is disconnected or with other faults, the alarm will be triggered.

AC Power Down Check Time

The system checks the fault after the configured time duration after AC power down. To compliant the EN 50131-3, the check time duration should be 10 s.

System Instructions

In the site, tap the AX PRO and then log in to the device (if required). Tap \bigcirc \rightarrow System \rightarrow System Options \rightarrow System Instructions to enter the page.

Stop Arming

If the option is enabled, when there is a fault during the arming procedure., you can stop arming manually.

Fault Check

The system will check if the device has the faults in the checklist during the arming procedure.

Arming with Fault

Check the faults in the Fault Check list, and the device will not stop the arming procedure when faults occurred.

Arming Indicator Keeps Light

If the device applies EN standard, by default, the function is disabled. In this case, if the device is armed, the indicator will be solid blue for 5 s. And if the device is disarmed, the indicator will flash 5 times.

When the function is enabled, if the device is armed, the indicator will be on all the time. And if the device is disarmed, the indicator will be off.

Prompt Fault When Arming

If the device applies EN standard, by default, the function is disabled. In this case, the device will not prompt faults during the arming procedure.

Early Alarm

If you enable the function, when the zone is armed and the zone is triggered, the alarm will be triggered after the delay time.

Delay Time

When the early alarm function is enabled, you should set the delay time. The alarm will be triggered after the configured delay time.

Enrollment Method

In the site, tap the AX PRO and then log in to the device (if required). Tap \bigcirc \rightarrow System \rightarrow System Options \rightarrow Enrollment Method to enter the page.

Tap Enter the Enrollment Mode.

Follow the instructions on the page to add a device.

Tap Exit the Enrollment Mode.

Network Camera

Add Cameras to the AX PRO

Steps

- 1. In the site, tap the AX PRO and then log in to the device (if required).
- 2. Tap \bigcirc \rightarrow IPC \rightarrow IPC management to enter the page.
- 3. Tap **Add**.
- 4. Enter IP address, port, the user name and password of the camera.
- 5. Tap **Save Icon**.
- 6. Optional: tap **Edit** or **Delete** to edit or delete the selected camera.

Set Video Parameters

Steps

1. In the site, tap the AX PRO and then log in to the device (if required).

- 2. Tap \bigcirc \rightarrow IPC \rightarrow Event Video Settings to enter the page.
- 3. Select a camera and set the video parameters.

Stream Type

Main Stream: Being used in recording and HD preview, it has a high resolution, code rate and picture quality.

Sub-Stream: It is used to transmit network and preview pictures as a video streaming with features of lower resolution, bit rate and picture quality.

Bitrate Type

Select the Bitrate type as constant or variable.

Resolution

Select the resolution of the video output.

Video Bitrate

The higher value corresponds to the higher video quality, but the better bandwidth is required.

Set Arming/Disarming Schedule

Set the arming/disarming schedule to arm/disarm a particular zone automatically.

In the site, tap the AX PRO and then log in to the device (if required).

Tap \bigcirc \rightarrow **Area** to enter the page.

Tap an area in the list, enable the area and select linked zones.

Enable the auto arm/disarm function and set the auto arm time/auto disarm time. You can also set the late to disarm time, entry delay time, exit delay time, sounder delay time, weekend exception and excepted holiday.

Auto Arm

Enable the area to automatically arm itself in a specific time point.

Auto Arm Time

Set the schedule for the area to automatically arm itself.

Late to Disarm

Enable the device to push a notification to the phone or tablet to remind the user to disarm the area when the area is still armed after a specific time point.

Note

You should enable the Panel Management Notification function on the Web Client of **Communication Parameters** \rightarrow **Event Communication** before enabling the Late to Disarm function.

Late to Disarm Time

Set the time point mentioned in **Late to Disarm**.

Weekend Exception

If enabled, Auto Arm, Auto Disarm, and Late to Disarm are disabled on the weekend.

Excepted Holiday

Enable the function and the zone will not be armed/disarmed in the holiday. You should set the holiday schedule after enabling.

Note

Up to 6 holiday groups can be set.

Communication

Mobile Network

Enter a short description of your task here (optional).

Steps

- 1. In the site, tap the AX PRO and then log in to the device (if required).
- 2. Tap \bigcirc \rightarrow Communication \rightarrow Mobile Network to enter the page.
- 3. Enable Mobile Network.
- 4. Tap **Parameter Configuration** → **Edit Icon** and set parameters including the user name, APN, MTU and PIN conde.
- 5. Tap **Save Icon**.
- 6. Enable Data Usage Limit.
- 7. Edit Data Used This Month and Data Limited per Month.

Message Push-Alarm Center

When an alarm is triggered, if you want to send the alarm notification to the mobile phone, you can set the notification push parameters.

Steps

- 1. In the site, tap the AX PRO and then log in to the device (if required).
- 2. Tap \bigcirc \rightarrow Communication \rightarrow Message Push-Alarm Center to enter the page.
- 3. Tap **Add Phone Number** and enter the phone number.
- 4. Enable **Phone Call** and **SMS** according to your need.
- 5. Set Number of Calling.
- 6. Check notifications.

Zone Alarm & Tampering Alarm Notification

The device will push notifications when the zone alarm is triggered or the zone tampering

alarm is triggered or restored.



You need to set event filtering interval time.

Panel Management Notification

The device will push notifications when the user operate the AX PRO.

Wireless Device Tampering Alarm Notification

The device will push notifications when tampering alarm of any wireless device is triggered or restored.

AX PRO Tampering Alarm Notification

The device will push notifications when tampering alarm of the control is triggered or restored.

Panic Alarm Notification

The device will push notifications when panic alarm is triggered or restored by zones, keypads or keyfobs.

Medical Alarm Notification

The device will push notifications when medical alarm is triggered.

Gas Alarm Notification

The device will push notifications when gas alarm is triggered.

Fire Alarm Notification

The device will push notifications when fire alarm is triggered or a user presses the fire alarm key on the keypad.

AX PRO System Status Notification

The device will push notifications when the AX PRO system status is changed.

Wireless Detector Status Notification

The device will push notifications when any wireless detector status is changed.

Device Status Notification

The device will push notifications when any device status is changed.

Alarm Center

You can set the alarm center's parameters and all alarms will be sent to the configured alarm center.

Steps

- 1. In the site, tap the AX PRO and then log in to the device (if required).
- 2. Tap \bigcirc \rightarrow Communication \rightarrow Alarm Center to enter the page.
- 3. Select an alarm center and enable it.

4. Select the **Protocol Type** as **ADM-CID**, **ISUP**, **SIA-DCS**, ***SIA-DCS**, or ***ADM-CID** to set uploading mode.

ADM-CID or **SIA-DCS**You should select the **Alarm Receiver Type** as **IP** or **Domain name**, and enter the IP/domain name, port number, account code, timeout, re-upload times and heartbeat interval.



Set the heartbeat interval with the range from 10 to 3888000 seconds.

ISUPYou do not need to set the ISUP protocol parameters.

*SIA-DCS or *ADM-CIDYou should select the Alarm Receiver Type as IP or Domain name, and enter the IP/domain name, port number, account code, retry timeout period, attempts, heartbeat interval, encryption arithmetic, password length and secret key.



Set the heartbeat interval with the range from 10 to 3888000 seconds.

For encryption arithmetic: The panel support encryption format for information security according to DC-09, AES-128, AES-192 and AES-256 are supported when you configure the alarm center.

For the secret key: When you use an encrypted format of DC-09, a key should be set when you configure the ARC. The key would be issued offline by ARC, which would be used to encrypt the message for substitution security.

Device Maintenance

You can reboot the device.

Steps

- 1. In the site, tap the AX PRO and then log in to the device (if required).
- 2. Tap \bigcirc \rightarrow **Project Maintenance** \rightarrow **Device Maintenance** to enter the page.
- 3. Tap **Test**, and tap **Start Walk Test** to test the whether the device works properly or not.
- 3. Tap Maintenance → Reboot Device .

The AX PRO will reboot.

Device Management

Enter a short description of your concept here (optional).

This is the start of your concept.

Zone

You can set the zone parameters on the zone page.

Steps

1. In the site, tap the AX PRO and then log in to the device (if required).

- 2. Tap a zone in the **Device** tab.
- 3. Tap **Q**.
- 4. Tap **Edit Icon** the zone name.
- 5. Select a zone type.

Instant Zone

This Zone type will immediately trigger an alarm event when armed.

Delayed Zone

Exit Delay: Exit Delay provides you time to leave through the defense area without alarm. Entry Delay: Entry Delay provides you time to enter the defense area to disarm the system without alarm.

The system gives Entry/Exit delay time when it is armed or reentered. It is usually used in entrance/exit route (e.g. front door/main entrance), which is a key route to arm/disarm via operating keyboard for users.



You can set 2 different time durations in **System Options** \rightarrow **Schedule & Timer**. Ensure that timer is no longer than 45 seconds in order to comply with EN50131-1. If the zone is a delayed zone, you can set Enter delay/Exit delay parameters.

Follow Zone

The zone acts as delayed zone when it detects triggering event during system Entry Delay, while it acts as instant zone otherwise.

Perimeter Zone

The system will immediately alarm when it detects a triggering event after the system is armed. There is a configurable interval timer between the alarm activation and sounder output "Sounder Delay Time (Perimeter Alarm) 0 to 600 Seconds". This option allows you to check the alarm and cancel the sounder output during the interval time in case of false alarm. When the zone is armed, you can set the peripheral alarm delayed time in **System Options** \rightarrow **Schedule & Timer**. You can also mute the sounder in the delayed time.

24h Silent Panic Zone

This zone type is active 24hrs, it is used for Panic or HUD (Hold Up Devices) not smoke sensors or break glass detectors.

Panic Zone

The zone activates all the time. It is usually used in the sites equipped with panic button, smoke detector and glass-break detector.

Fire Zone

The zone activates all the time with sound/sounder output when alarm occurs. It is usually used in fire hazardous areas equipped with smoke detectors and temperature sensors.

Gas Zone

The zone activates all the time with sound/sounder output when alarm occurs. It is usually used in areas equipped with gas detectors (e.g., the kitchen).

Medical Zone

The zone activates all the time with beep confirmation when alarm occurs. It is usually used in places equipped with medical emergency buttons.

Timeout Zone

The zone activates all the time. The zone type is used to monitor and report the "ACTIVE" status of a zone, but it will only report and alarm this status after the programmed time has expired. (1 to 599) Seconds. It can be used in places equipped with magnetic contacts that require access but for only a short period (e.g., fire hydrant box's door or another external security box door)

Key Zone

The linked area will arm after being triggered, and disarm after being restored. In the case of the tampering alarm, the arming and disarming operation will not be triggered.

Disabled Zone

Alarms will not be activated when the zone is triggered or tampered. It is usually used to disable faulty detectors.

6. Enable Stay Arming Bypass, Chime, Dual-Alarm or Silent Alarm according to your actual needs.



- Some zones do not support the function. Refer to the actual zone to set the function.
- Different zone types have different parameters.
- 7. Set heartbeat cycle.
- 8. Optional: Tap **Delete** to delete the device.

Keypad

You can set the parameters of the keypad that is enrolled to the AX PRO.

Steps

- 1. In the site, tap the AX PRO and then log in to the device (if required).
- 2. Tap a keypad in the **Device** tab.
- 3. Tap **Q**.
- 4. Tap **Edit Icon** the keypad name.
- 5. Enable Enable Keyfob.
- 6. Select linked users.
- 7. Tap **Function Key Settings** to set functions for single keys and combination keys.
- 8. Optional: Tap **Delete** to delete the device.

Sounder

The sounder is enrolled to the AX PRO via the wireless receiver module, and the 868 Mhz wireless sounder can be enrolled to the hybrid AX PRO via the wireless receiver that is at the address of 9.

Steps

- 1. In the site, tap the AX PRO and then log in to the device (if required).
- 2. Tap a sounder in the **Device** tab.
- 3. Tap **Q**.
- 4. Tap **Edit Icon** the sounder name.
- 5. Select linked areas.
- 6. Set alarming lasting time and alarm volume.
- 7. Enable arming/disarming LED, arming/disarming buzzer, alarm indicator according to actual needs.
- 8. Set heatbeat cycle.
- 9. Optional: Tap **Delete** to delete the device.

4.1.2 User the Hik-ProConnect Portal

For AX Pro security control panel, you can perform operations including arming/disarming area, clearing alarm, bypassing zone etc., and remotely configure the control panel on the Portal. You can also apply for PIN (required for upgrading the firmware of AX Pro) and switch the language of AX Pro.

Click Site to enter the site list page, and then click the name of a site to enter site details page.

Remotely Operate AX Pro

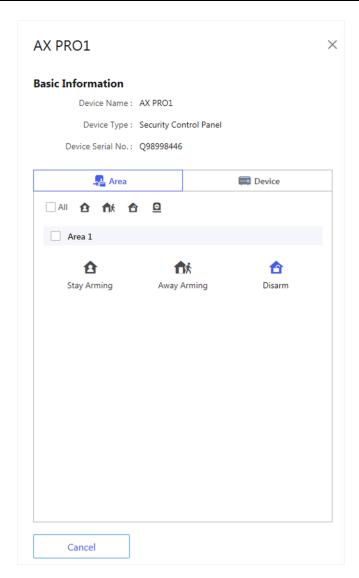
Click the AX Pro to open the operation panel. And you can perform the following operations.

Table 4-3 Operation Description

Operation	Description
Stay Arm a Specific Area	Select the Area tab, and then click Stay Arming to stay arm the area.
Away Arm a Specific Area	Select the Area tab and then click Away Arming .
Disarm a Specific Area	Select the Area tab and then click Disarm .
Stay Arm Multiple Areas	Select the Area tab, and then select areas and click 1 .
Away Arm Multiple Areas	Select the Area tab, and then select areas and click f k.
Disarm Multiple Areas	Select the Area tab, and then select areas and click a .
Clear Alarms of Multiple Areas	Select the Area tab, and then select areas and click
Filter Peripheral Device by Area	Select the Device tab, and then click \vee and select an area to only display the peripheral devices linked to the selected area, or

AX PRO User Manual

Operation	Description	
	select All to display all the peripheral devices linked to all the areas.	
Control Relay	Select the Device tab, and then select a wireless output expander to display the sirens linked to it, and then select siren(s) to enable/disable them.	
Bypass Zone	Select the Device tab, and then select a zone (i.e., detector) and turn on the Bypass switch to bypass the zone.	



Remotely Configure AX Pro

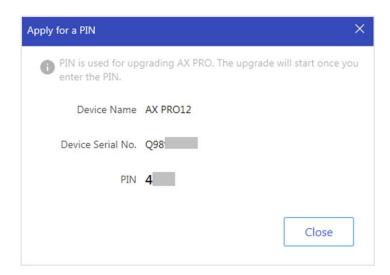
You can click 🧔 to enter the web page of the security control panel to configure the device.

iNote

For details about security control panel configuration, see the user manual of the device.

Apply for a PIN

You can click $\bullet \bullet \bullet \to \exists$ to open the Apply for a PIN window, and then PIN code will be displayed.

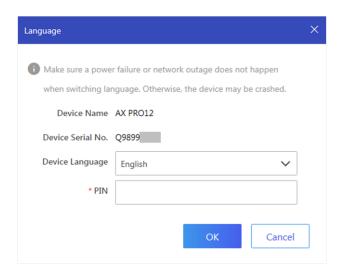


Switch Language

Note

You should have applied for a PIN.

You can click $\bullet \bullet \bullet \to =$ to open the Language window, and then set the device language and enter the PIN.



4.2 Use the Hik-Connect

The operator can use the Hik-Connect to control the device, such as general arming/disarming operation, and user management etc.

Download and Login the Mobile Client

Download the Hik-Connect mobile client and login the client before operating the AX PRO.

Steps

- 1. Download Hik-Connect mobile client.
- 2. Optional: Register a new account if it is the first time you use the Hik-Connect mobile client.



For details, see User Manual of Hik-Connect Mobile Client.

3. Run and login the client.

Add AX PRO to the Mobile Client

Add an AX PRO to the mobile client before other operations.

Steps

- 1. Power on the AX PRO.
- 2. Select adding type.
 - Tap
 → Scan QR Code to enter the Scan QR code page. Scan the QR code on the AX PRO.



Normally, the QR code is printed on the label stuck on the back cover of the AX PRO.

Tap → Manual Adding to enter the Add Device page. Enter the device serial No. with the Hik-Connect Domain adding type.

- 3. Tap 🖹 to search the device.
- 4. Tap **Add** on the Results page.
- 5. Enter the verification code and tap **OK**.
- 6. After adding completed, enter the device alias and tap **Save**.
- 7. Optional: Tap \bigcirc \rightarrow **Delete** to delete the device.
- 8. Optional: Tap o and tap **Edit Icon** to edit the device name.

Add Peripheral to the AX PRO

Add peripheral to the AX PRO.

Steps

- 1. Select a site.
- 2. Select a control device (AX PRO).
- 3. Tap the + icon.
 - Tap Scan QR Code to enter the Scan QR code page. Scan the QR code on the peripheral.

Tap **Manual Adding** to enter the Add Device page. Enter the device serial No. and verification code to add the device.

Tag Management

After adding Tags/tags to the wireless AX PRO, you can swipe the Tag to arm or disarm all the detectors added to specific area(s) of the AX PRO, and clear alarms.

Steps

- 1. On the device list page, tap the AX PRO and then log in to the device (if required) to enter the page.
- 2. Tap \bigcirc \rightarrow User Management \rightarrow Tag to enter the Tag Management page.
- 3. Tap + to add a Tag.
- 4. When hearing the voice prompt "Swipe Tag", you should present the Tag on the AX PRO Tag presenting area.
 - When hearing a beep sound, the Tag is recognized.
 - The Tag will be displayed on the Tag page.
- 5. Optional: Tap a Tag to enter the Setting Page.
- 6. Tap **Edit Icon** to edit the Tag name.



- If you log in as an installer, skip this step. Editing Tag name is only available to administrator.
- The name should contain 1 to 32 characters.
- 7. Slide Enable Tag..
- 8. Select a linked user.
- 9. Select the Tag type



Different linked users have different Tag permissions.

Operation Tag

You can swipe the Tag to arm or disarm.

Patrol Tag

When you swipe the Tag, the system will upload a record.

10. Optional: Tap **Delete** to delete the Tag.

User Management

The administrator and the installers can manage users. If you are the administrator, you can add, edit, and delete users, and assign different permissions to the newly-added users. If you are a installer, you can only add and delete users.

Steps



There are four types of users for the AX PRO, including administrator (or owner), operator, installer (or setter), and manufacturer. Different types of users have different permissions for accessing the functionality of the AX PRO.

- 1. On the device list page, tap the AX PRO and then log in to the device (if required) to enter the AX PRO page.
- 2. Tap Invite Icon to enter the Recipient Page.
- 3. Select a user to invite.
 - Scan QR code to invite a user.
 - Enter email address/mobile phone number to invite a user.
 - Select a user in the list.
- 4. Tap Next to invite the user.



The recipient need to accept the invitation.

- 5. Tap \bigcirc \rightarrow User Management \rightarrow User.
- 6. Tap a user to enter the User Management Page.
- 7. Optional: Perform the following operations if required.

User Permission

You can tap the target user on the user list and then tap **Edit Icon** to set the permissions authorized to the target user.

ŬiNote

Only the administrator can do such an operation.

Set Linked Areas

If the target user is a an operator, tap the target user on the user list and then tap **Linked Areas** to set the area linked to the target user.

Note

Only the administrator can do such an operation.

Edit Keypad

If the target user is an administrator, an installer, or a manufacturer,

you can tap the target user on the user list and then tap Edit Keypad
Password to set the keypad password to the target user.

Edit Duress Password

If the target user is an administrator, you can tap the target user on the user list and then tap Edit Duress Password to set the duress password to the target user.

Note

arm and disarm area(s) and upload a duress alarm.

If under duress, you can enter the duress code on the keyboard to

Note

- Configuration items and user permission will vary according to the user type.
- You can view linked Tags/tags and keyfobs of the user but you do not have permission to configure them.

Bypass Zone

When the area is armed, you can bypass a particular zone as you desired.

Before You Start

Link a detector to the zone.

Steps

- 1. On the device list page, tap the AX PRO and then log in to the device (if required) to enter the Area page.
- 2. Tap **Device**.
- 3. Tap a zone in the Device tab.
- 4. Tap o to enter the Setting page.
- Enable Zone Bypass and the zone will be in the bypass status.
 The detector in the zone does not detect anything and you will not receive any alarm from the zone.

Arm/Disarm the Area

Arm or disarm the a area manually as you desired.

Note

Axiom AX PRO supports 4 areas.

On the device list page, tap the AX PRO and then log in to the device (if required) to enter the Area page.

Operations for a Single Area

- Away Arming: Tap any area to away arm a single area. When all the people in the detection
 area leave, turn on the Away mode to arm all zones in the area after the defined dwell time.
- **Disarm**: Tap **Away Arming Icon** in any area to disarm a single area. In Disarm mode, all the zones in the area will not trigger alarm, no matter alarm events happen or not.

Operations for All Areas

- Away: Tap Away Arming Icon to away arm all areas. When all the people in the detection area leave, turn on the Away mode to arm all zones in all areas after the defined dwell time.
- Stay: Tap Stay Arming Icon to stay arm all areas. When the people stays inside the detection
 area, turn on the Stay mode to arm all the perimeter burglary detection (such as perimeter
 detector, magnetic contacts, curtain detector in the balcony) set in all the zones of all areas. At
 the meantime, the detectors inside the detection area are bypassed (such as PIR detectors).
 People can move inside the area and alarm will not be triggered.
- **Disarm**: Tap **Disarm Icon** to disarm all areas. In Disarm mode, all the zones of all areas will not trigger alarm, no matter alarm events happen or not.
- Clear Alarm: Tap Clear Alarm Icon to clear alarms for all areas. Clear all the alarms triggered by the all the zones of all the areas.

Check Alarm Notification

When an alarm is triggered, and you will receive an alarm notification. You can check the alarm information from the mobile client.

Before You Start

- Make sure you have linked a zone with a detector.
- Make sure the zone is not bypassed.
- Make sure you have not enabled the silent zone function.

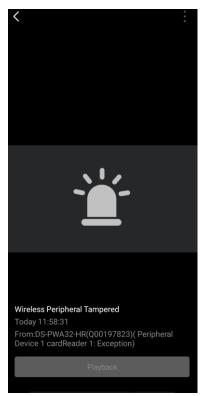
Steps

1. Tap **Notification** in the mobile client to enter the page.



All alarm notifications are listed in Notification page.

2. Select an alarm and you can view the alarm details.



3. Optional: If the zone has linked a camera, you can view the playback when the alarm is triggered.

Wi-Fi Connection

You can make the AX PRO connect to Wi-Fi through APP.

Steps

- 1. On the device list page, tap the AX PRO and then log in to the device (if required) to enter the page.
- 2. Tap **②** → Communication Parameters → Wi-Fi.
- 3. Follow the instructions on the page and change the AX PRO to the AP mode. Tap **Next**.
- 4. Select a stable Wi-Fi for the device to connect.
- 5. Back to configuration page to enter the Wi-Fi password and tap **Next**.
- Tap Connect to a network and wait for connection.
 After the connection is completed, the AX PRO will prompt to exit AP mode and automatically switch to STA mode.

Device Maintenance

You can reboot the device.

Steps

- 1. On the device list page, tap the AX PRO and then log in to the device (if required) to enter the page.
- 2. Tap \bigcirc \rightarrow Project Maintenance \rightarrow Device Maintenance.
- 3. Tap Reboot Device.

The AX PRO will reboot.

4.3 Use the Web Client

Steps

- 1. Connect the device to the Ethernet.
- 2. Search the device IP address via the client software and the SADP software.
- 3. Enter the searched IP address in the address bar.

Note

When using mobile browser, the default IP Address is 192.168.8.1.

iNote

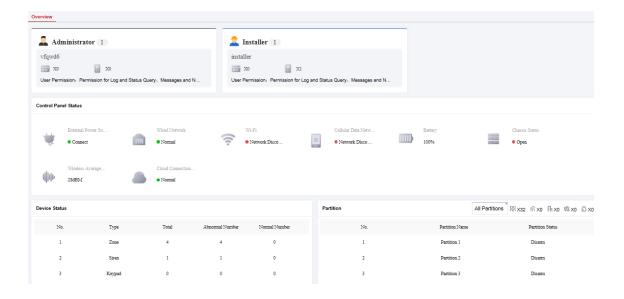
When connecting the network cable with computer directly, the default IP Address is 192.0.0.64

4. Use the activation user name and password to login.

Note

Refer to Activation chapter for the details.

You can view the user, device, and area status on the overview page.



4.3.1 Communication Settings

Wired Network Settings

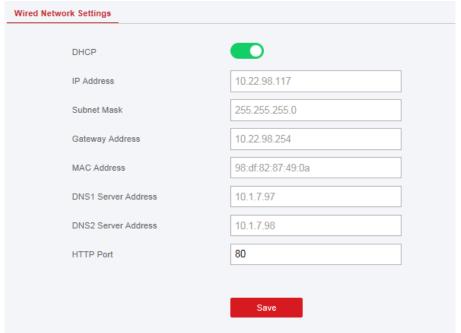
You can set the device IP address and other network parameters.

Steps



Functions varied depending on the model of the device.

1. In the client software, select the device on the **Device Management** page and click , or enter the radar IP address in the address bar of the web browser and log in.



- 2. Click **Communication Parameters** → **Ethernet** to enter the page.
- 3. Set the parameters.

Automatic Settings: Enable **DHCP** and set the HTTP port.Manual Settings: Disabled **DHCP** and set **IP** Address, Subnet Mask, Gateway Address, DNS Server Address.

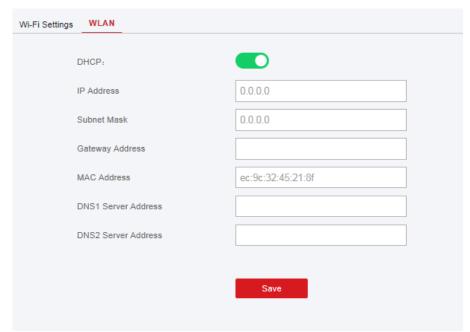
- 4. Optional: Set correct DNS server address if the device needs to visit Hik-Connect server via a domain name.
- 5. Click Save.

Wi-Fi

You can set the Wi-Fi parameters if there are secure and credible Wi-Fi networks nearby.

Steps

1. Click **Communication Parameters** → **Wi-Fi** to enter the Wi-Fi page.



2. Connect to a Wi-Fi.

Manually Connect: Input the **SSID Wi-Fi** and **Wi-Fi Password**, select **Encryption Mode** and click **Save**. Select from Network List: Select a target Wi-Fi from the Network list. Click **Connect** and input Wi-Fi password and click **Connect**.

- 3. Click **WLAN** to enter the WLAN page.
- 4. Set IP Address, Subnet Mask, Gateway Address, and DNS Server Address.



If enable DHCP, the device will gain the Wi-Fi parameters automatically.

5. Click Save.

Cellular Network

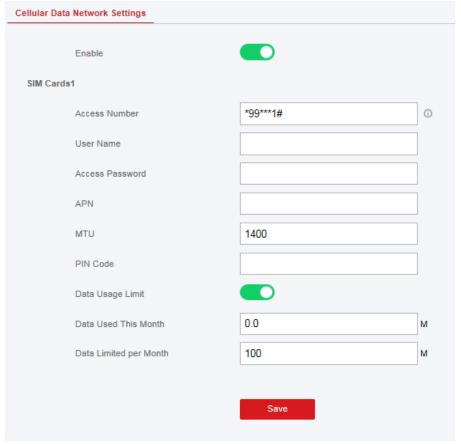
Set the cellular network parameters if you insert a SIM card inside the device. By using the cellular network, the device can upload alarm notifications to the alarm center.

Before You Start

Insert a SIM card into the device SIM card slot.

Steps

 Click Communication Parameters → Cellular Data Network to enter the Cellular Data Network Settings page.



- 2. Enable Wireless Dial.
- 3. Set the cellular data network parameters.

Access Number

Input the operator dialing number.

iNote

Only the private network SIM card user needs to enter the access number.

User Name

Ask the network carrier and input the user name.

Access Password

Ask the network carrier and input the password.

APN

Ask the network carrier to get the APN information and input the APN information.

Data Usage Limit

You can enable the function and set the data threshold every month. If data usage is more than the configured threshold, an alarm will be triggered and uploaded to the alarm center and mobile client.

Data Used This Month

The used data will be accumulated and displayed in this text box.

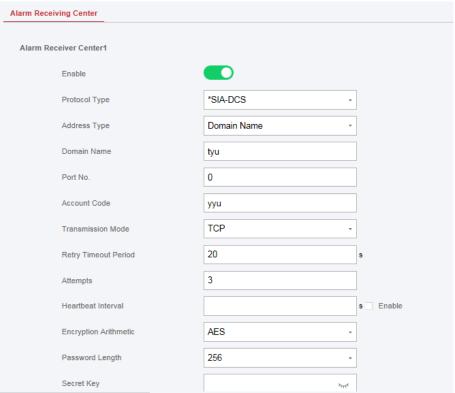
4. Click Save.

Alarm Center

You can set the alarm center's parameters and all alarms will be sent to the configured alarm center.

Steps

1. Click **Communication Parameters** → **Alarm Receiving Center** to enter the Alarm Receiving Center page.



2. Select the **Alarm Receiver Center** as **1** or **2** for configuration , and slide the slider to enable the selected alarm receiver center.



Only if the alarm receiver center 1 is enabled, you can set the alarm receiver center 2 as the **backup channel** and edit the channel parameters.

3. Select the **Protocol Type** as **ADM-CID**, **ISUP**, **SIA-DCS**, ***SIA-DCS**, or ***ADM-CID** to set uploading mode.

Note

Standard DC-09 Protocol

ADM-CID: The data presenting method of DC-09 is CID, which is not encrypted and only for uploading alarm report.

*ADC-CID: The data presenting method of DC-09 is CID, which is encrypted and only for uploading alarm report.

SIA-DCS: The data presenting method of DC-09 is DCS (also called SIA protocol), which is not encrypted and only for uploading alarm report.

*SIA-DCS: The data presenting method of DC-09 is DCS (also called SIA protocol), which is encrypted and only for uploading alarm report.

ADM-CID or **SIA-DCS** You should select the **Alarm Receiver Type** as **IP** or **Domain name**, and enter the IP/domain name, port number, account code, timeout, re-upload times and heartbeat interval.



Set the heartbeat interval with the range from 10 to 3888000 seconds.

ISUPYou do not need to set the ISUP protocol parameters.

*SIA-DCS or *ADM-CID You should select the Alarm Receiver Type as IP or Domain name, and enter the IP/domain name, port number, account code, retry timeout period, attempts, heartbeat interval, encryption arithmetic, password length and secret key.



Set the heartbeat interval with the range from 10 to 3888000 seconds.

For encryption arithmetic: The panel support encryption format for information security according to DC-09, AES-128, AES-192 and AES-256 are supported when you configure the alarm center.

For the secret key: When you use an encrypted format of DC-09, a key should be set when you configure the ARC. The key would be issued offline by ARC, which would be used to encrypt the message for substitution security.

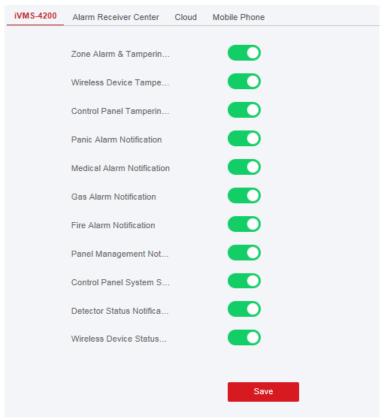
4. Click Save.

Notification Push

When an alarm is triggered, if you want to send the alarm notification to the client, alarm center, cloud or mobile phone, you can set the notification push parameters.

Steps

1. Click Communication Parameters → Event Communication.



2. Enable the target notification.

1		Note
1 -	_=	INOTE
	$\overline{}$	

If you want to send the alarm notifications to the mobile client, you should also set the **Mobile Phone Index**, **Mobile Phone Number**, and check the **Notification Type**.

For message notification in alarm receiving center, select the center index before settings.

3. Click Save.

Result

Table 4-1 Options of Notifications

Option	Notification
	Zone alarm & Lid Opened
iVMS-4200	Wireless Device Lid Opened
	Tamper Notification

AX PRO User Manual

Option	Notification
	Panic Alarm Notification
	Medical Alarm Notification
	Gas Alarm Notification
	Fire Alarm Notification
	Panel Management Notification
	System Status Notification
	Detector Status Notification
	Wireless Device Status Notification
	Alarm Receiver Center 1&2
	Zone alarm & Lid Opened
	Wireless Device Lid Opened
	Tamper Notification
	Panic Alarm Notification
Alarm Receiver Center	Medical Alarm Notification
Alaim Receiver Center	Gas Alarm Notification
	Fire Alarm Notification
	Panel Management Notification
	System Status Notification
	Detector Status Notification
	Wireless Device Status Notification
	Zone alarm & Lid Opened
	Wireless Device Lid Opened
	Tamper Notification
	Panic Alarm Notification
Cloud	Medical Alarm Notification
Cloud	Gas Alarm Notification
	Fire Alarm Notification
	Panel Management Notification
	System Status Notification
	Detector Status Notification

Option	Notification
	Wireless Device Status Notification
	Mobile Phone Index 1 to 8
	Mobile Phone Number
	Notification Type SMS & Voice Call Check Box
	Zone alarm & Lid Opened (Set Filter Time)
	Number of Calls
	Wireless Device Lid Opened
	Tamper Notification
Mobile Phone	Panic Alarm Notification
	Medical Alarm Notification
	Gas Alarm Notification
	Fire Alarm Notification
	Panel Management Notification
	System Status Notification
	Detector Status Notification
	Wireless Device Status Notification



For mobile phone notification:

- You need to press * to finish the call.
- It is required to add control code when entering the mobile phone number.

Mobile Client Registration

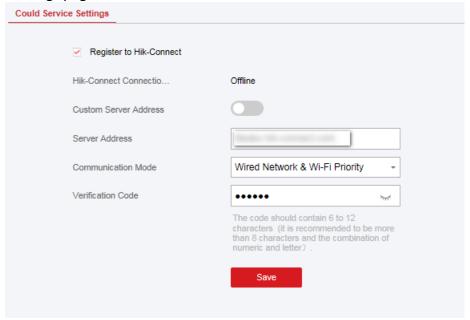
If you want to register the device to the mobile client for remote configuration, you should set the mobile client registration parameters.

Before You Start

- Connect the device to the network via wired connection, dial-up connection, or Wi-Fi connection.
- Set the device IP address, subnet mask, gateway and DNS server in the LAN.

Steps

1. Click **Communication Parameters** →**Cloud Service Settings** to enter the Hik-Connect Registration Settings page.



- 2. Click **Communication Parameters** → **Guarding Vision Registration** to enter the Guarding Vision Registration Settings page.
- 3. Check Register to Hik-Connect.

Note

By default, the device Hik-Connect service is enabled.

You can view the device status in the Hik-Connect server (www.hik-connect.com).

4. Check Register to Guarding Vision.

Note

By default, the device Guarding Vision service is enabled.

You can view the device status in the Guarding Vision server (www.guardingvision.com).

5. Enable Custom Server Address.

The server address is already displayed in the Server Address text box.

6. Select a communication mode from the drop-down list according to the actual device communication method.

Auto

The system will select the communication mode automatically according to the sequence of, wired network, Wi-Fi network, and cellular data network. Only when the current network is disconnected, will the device connect to other network.

Wired Network & Wi-Fi Priority

The connection priority order from high to low is: wired network, Wi-Fi, cellular data network.

Wired &Wi-Fi

The system will select wired network first. If no wired network detected, it will select Wi-Fi network.

Cellular Data Network

The system will select cellular data network only.

7. Optional: Change the authentication password.



- By default, the authentication password is displayed in the text box.
- The authentication password should contain 6 to 12 letters or digits. For security reasons, an 8-character password is suggested, which containing two or more of the following character types: uppercases, lowercases, and digits.

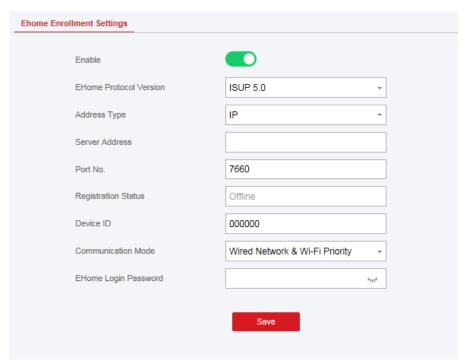
8. Click Save.

ISUP

In this section, you can create an ISUP account, and edit the IP address/domain name, port number.

Steps

 Click Communication Parameters → ISUP Registration to enter the ISUP Registration Settings page.



- 2. Slide the slider to enable ISUP protocol.
- 3. Select the Address Type as IP or Domain Name.
- 4. Enter IP address or domain name according to the address type.
- 5. Enter the port number for the protocol.



By default, the port number for ISUP is 7660.

- 6. Set an account, including the **Device ID** and **ISUP Login Password**.
- 7. Select Communication Mode.

Auto

The system will select the communication mode automatically according to the sequence of, wired network, Wi-Fi network, and cellular data network. Only when the current network is disconnected, will the device connect to other network.

Wired Network & Wi-Fi Priority

The connection priority order from high to low is: wired network, Wi-Fi, cellular data network.

Wired &Wi-Fi

The system will select wired network first. If no wired network detected, it will select Wi-Fi network.

Cellular Data Network

The system will select cellular data network only.

8. Click Save.

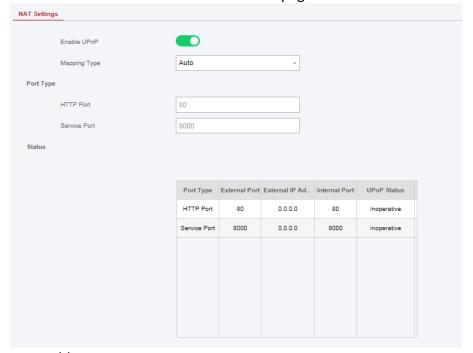
NAT

Universal Plug and Play (UPnP™) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPnP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the home and corporate environments.

Enable the UPnP function, and you don't need to configure the port mapping for each port, and the device is connected to the Wide Area Network via the router.

Steps

1. Click **Communication Parameters** \rightarrow **NAT** to enter the page.



- 2. Drag the slider to enable UPnP.
- 3. Optional: Select the mapping type as Manual
- 4. Set the HTTP port and the service port.
- 5. Click **Save** to complete the settings

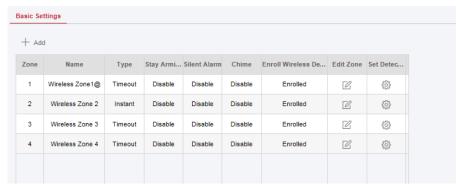
4.3.2 Device Management

Zone

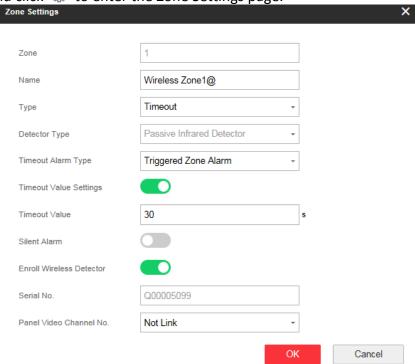
You can set the zone parameters on the zone page.

Steps

1. Click **Device** \rightarrow **Zone** to enter the Zone page.



2. Select a zone and click 🐯 to enter the Zone Settings page.



- 3. Edit the zone name.
- 4. Select a zone type.

Instant Zone

This Zone type will immediately trigger an alarm event when armed.

Delayed Zone

Exit Delay: Exit Delay provides you time to leave through the defense area without alarm. Entry Delay: Entry Delay provides you time to enter the defense area to disarm the system without alarm.

The system gives Entry/Exit delay time when it is armed or reentered. It is usually used in entrance/exit route (e.g. front door/main entrance), which is a key route to arm/disarm via operating keyboard for users.



You can set 2 different time durations in **System Options** \rightarrow **Schedule & Timer**. Ensure that timer is no longer than 45 seconds in order to comply with EN50131-1.

Follow Zone

The zone acts as delayed zone when it detects triggering event during system Entry Delay, while it acts as instant zone otherwise.

Perimeter Zone

The system will immediately alarm when it detects a triggering event after the system is armed. There is a configurable interval timer between the alarm activation and sounder output "Sounder Delay Time (Perimeter Alarm) 0 to 600 Seconds". This option allows you to check the alarm and cancel the sounder output during the interval time in case of false alarm. When the zone is armed, you can set the peripheral alarm delayed time in **System Options** \rightarrow **Schedule & Timer**. You can also mute the sounder in the delayed time.

Silent Panic Zone

This zone type is active 24hrs, it is used for Panic or HUD (Hold Up Devices) not smoke sensors or break glass detectors.

Panic Zone

The zone activates all the time. It is usually used in the sites equipped with panic button, smoke detector and glass-break detector.

Fire Zone

The zone activates all the time with sound/sounder output when alarm occurs. It is usually used in fire hazardous areas equipped with smoke detectors and temperature sensors.

Gas Zone

The zone activates all the time with sound/sounder output when alarm occurs. It is usually used in areas equipped with gas detectors (e.g., the kitchen).

Medical Zone

The zone activates all the time with beep confirmation when alarm occurs. It is usually used in places equipped with medical emergency buttons.

Timeout Zone

The zone activates all the time. The zone type is used to monitor and report the "ACTIVE" status of a zone, but it will only report and alarm this status after the programmed time has expired. (1 to 599) Seconds. It can be used in places equipped with magnetic contacts that require access but for only a short period (e.g., fire hydrant box's door or another external security box door)

Key Zone

The linked area will arm after being triggered, and disarm after being restored. In the case of the tampering alarm, the arming and disarming operation will not be triggered.

Disabled Zone

Alarms will not be activated when the zone is triggered or tampered. It is usually used to disable faulty detectors .

5. Enable **Timeout Value**, **Silent Alarm**, **etc.** according to your actual needs.

iNote

Some zones do not support the function. Refer to the actual zone to set the function.

- 6. Enable **Detector Enrolled**, enter the serial No., and set the linked camera No.
- 7. Click OK.

iNote

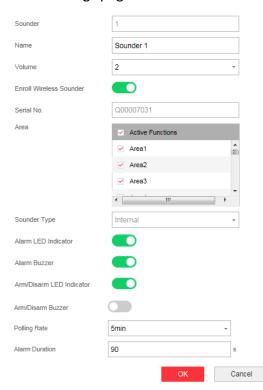
After setting the zone, you can enter **Status** \rightarrow **Zone** to view the zone status.

Sounder

The sounder is enrolled to the AX PRO via the wireless receiver module, and the 868 Mhz wireless sounder can be enrolled to the hybrid AX PRO via the wireless receiver that is at the address of 9.

Steps

- 1. Click **Device** → **Sounder** to enter the Sounder page.
- 2. Click to enter the Sounder Settings page.



3. Set the sounder name and the volume.

Note

The available sounder volume range is from 0 to 3 (function varies according to the model of device).

- 5. Enable **Enroll Wireless Sounder** and set the sounder serial No.
- 6. Select the linked area.
- 7. Select to enable **Alarm LED Indicator**, **Alarm Buzzer**, **Arm/Disarm LED Indicator**, and **Arm/Disarm Buzzer**.
- 8. Set the **Polling Rate** and **Alarm Duration**.
- 9. Click OK.



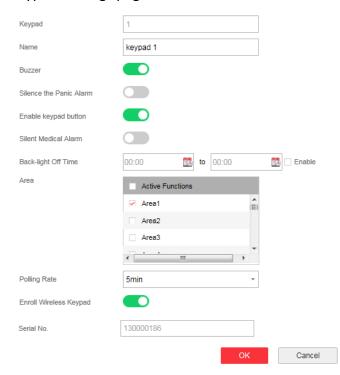
After the sounder is configured, you can click **Status** → **Sounder** to view the sounder status.

Keypad

You can set the parameters of the keypad that is enrolled to the AX PRO.

Steps

- 1. Click **Device** → **Keypad** to enter the page.
- 2. Click 🐯 to enter the Keypad Settings page.



- 3. Set the keypad name.
- 4. Check the check box to enable the function of buzzer, silent panic alarm, silent medical alarm, and keypad button.

- 5. Check the **Enable** check box of Back-light Off Time, and set the duration of light off.
- 6. Select the keypad linked area.
- 7. Enable **Enroll Wireless Keypad** and set the serial No.
- 8. Click OK.



- After the keypad is configured, you can click Status → Keypad to view the keypad status.
- You can set the keypad password on the page of **User Management** \rightarrow **User** \rightarrow **Operation**.

4.3.3 Area Settings

Basic Settings

You can link zones to the selected area.

Steps

- 1. Click **Area** \rightarrow **Basic Settings** to enter the page.
- 2. Select an area.
- 3. Check Enable.
- 4. Check the check box in front of the zone to select zones for the area.
- 5. Click **Save** to complete the settings.

Schedule and Timer Settings

You can set the alarm schedule. The zone will be armed/disarmed according to the configured time schedule.

Steps

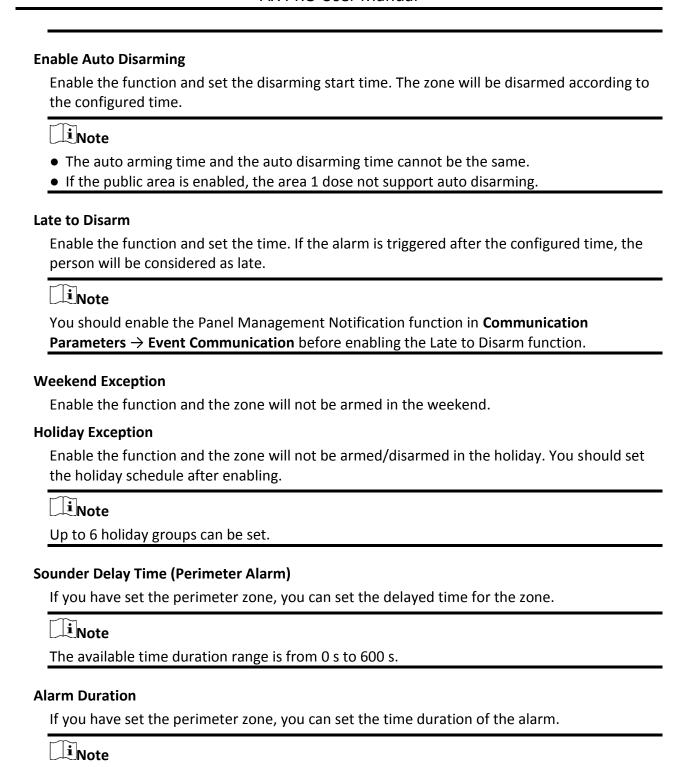
- 1. Click **System** → **System Options** → **Schedule & Timer** to enter the Schedule & Timer page.
- 2. Select an area.
- 3. Set the following parameters according to actual needs.

Enable Auto Arming

Enable the function and set the arming start time. The zone will be armed according to the configured time.



- The auto arming time and the auto disarming time cannot be the same.
- The buzzer beeps slowly 2 minutes before the auto arming starts, and beeps rapidly 1 minute before the auto arming starts.
- You can select to enable forced arming on the System Options page. While the function is enabled, the system will be armed regardless of the fault.
- If the public area is enabled, the area 1 dose not support auto arming.



5. Click Save.

The available time duration range is from 1 s to 900 s.

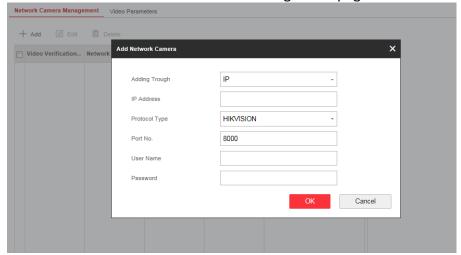
4.3.4 Video Management

You can add two network cameras to the AX PRO, and link the camera with the selected zone for video monitoring. You can also receive and view the event video via client and Email.

Add Cameras to the AX PRO

Steps

1. Click **Device** \rightarrow **IPC** to enter the network camera management page.



- 2. Click **Add**, and enter the basic information of the camera, such as IP address and port No., and select the protocol type.
- 3. Enter the user name and password of the camera.
- 4. Click OK.
- 5. Optional: Click **Edit** or **Delete** to edit or delete the selected camera.

Link a Camera with the Zone

Steps

- 1. Click **Device** \rightarrow **Zone** to enter the configuration page.
- 2. Select a zone that you wish to include video monitoring, and click the ۞.
- 3. Select the Panel Video Channel No..
- 4. Click OK.

Set Email to Receive Alarm Video

You can send the alarm video or event to the configured email.

Steps

- 1. Click **Communication Parameters** → **Video Verification Events** to enter the page.
- 2. Click the block to enable the function.
- 3. Enter the sender's information.

Note

It is recommended to use Gmail and Hotmail for sending mails.

- 4. Enter the receiver's information.
- 5. Click **Receiver Address Test** and make sure the address is correct.
- 6. Click Save.

FTP

You can configure the FTP server to save alarm video.

Steps

- 1. Click **Communication**→ **FTP** to enter the page.
- 2. Configure the FTP parameters

FTP Protocol

FTP and SFTP are selectable. The files uploading is encrypted by using SFTP protocol.

Server Address and Port

The FTP server address and corresponding port.

User Name and Password

The FTP user should have the permission to upload pictures. If the FTP server supports picture uploading by anonymous users, you can check Anonymous to hide your device information during uploading.

Directory Structure

The saving path of snapshots in the FTP server.

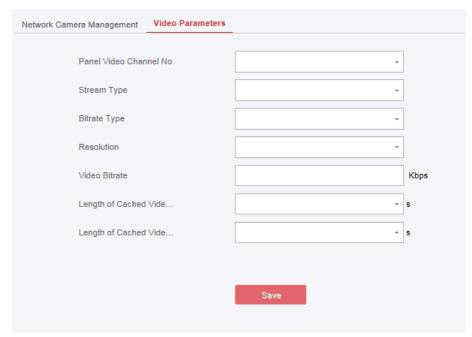
What to do next

Enter the tasks the user should do after finishing this task (optional).

Set Video Parameters

Steps

1. Click **Device** \rightarrow **IPC** \rightarrow Video to enter the page.



2. Select a camera and set the video parameters.

Stream Type

Main Stream: Being used in recording and HD preview, it has a high resolution, code rate and picture quality.

Sub-Stream: It is used to transmit network and preview pictures as a video streaming with features of lower resolution, bit rate and picture quality.

Bitrate Type

Select the Bitrate type as constant or variable.

Resolution

Select the resolution of the video output.

Video Bitrate

The higher value corresponds to the higher video quality, but the better bandwidth is required.

4.3.5 Permission Management

Add/Edit/Delete Keyfob

You can add keyfob to the AX PRO and you can control the AX PRO via the keyfob. You can also edit the keyfob information or delete the keyfob from the AX PRO.

Steps

- 1. Click **Device** → **Keyfob** to enter the Keyfob Management page.
- 2. Click **Add** and press any key on the keyfob.

3. Set the keyfob parameters.

Name

Customize a name for the keyfob.

Permission Settings

Check different items to assign permissions.

Single Key Settings

Select from the drop-down list to set I key and II key's functions

Combination Keys Settings

Select from the drop-down list to set combination keys' functions.

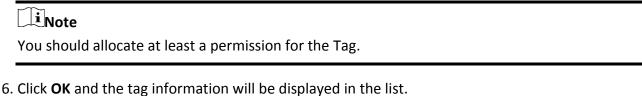
- 4. Click OK.
- 5. Optional: Click do to edit the keyfob information.
- 6. Optional: Delete a single keyfob or check multiple keyfobs and click **Delete** to delete the keyfobs in batch.

Add/Edit/Delete Tag

You can add tag to the AX PRO and you can use the Tag to arm/disarm the zone. You can also edit the tag information or delete the tag from the AX PRO.

Steps

- 1. Click **Device** \rightarrow **Tag** to enter the management page.
- 2. Click **Add** and place a Tag on the Tag area of the AX PRO.
- 3. Customize a name for the Tag in the pop-up window.
- 4. Select the Tag type and Tag linked area.
- 5. Select the permission for the Tag.





The Tag supports at least 20-thousand serial numbers.

- 7. Optional: Click and you can change the Tag name.
- 8. Optional: Delete a single Tag or check multiple Tags and click **Delete** to delete Tags in batch.

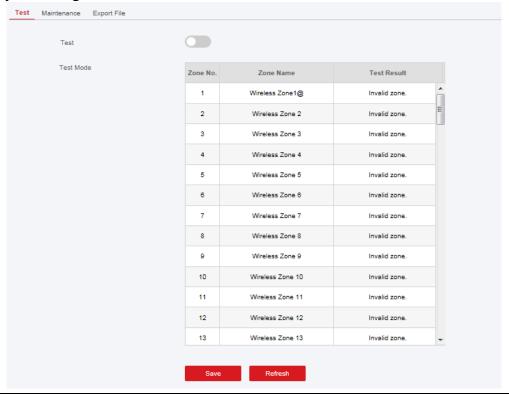
4.3.6 Maintenance

Test

The AX PRO supports walk test function.

Steps

1. Enter **Project Management** \rightarrow **Maintain** \rightarrow **Test** \rightarrow to enable the function.



Note

Only when all the detectors are without fault, you can enter the mode TEST mode.

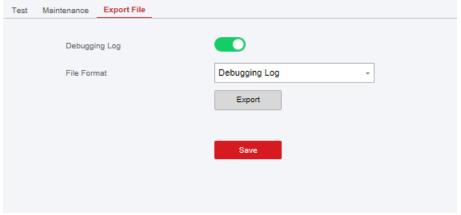
- 2. Check the **Test** check box to start walk test.
- 3. Click **Save** to complete the settings.
- 4. Trigger the detector in each zone.
- 5. Check the test result.

Export File

You can export debugging file to the PC.

Steps

1. Click **Maintenance** → **Export File** to enter the page.



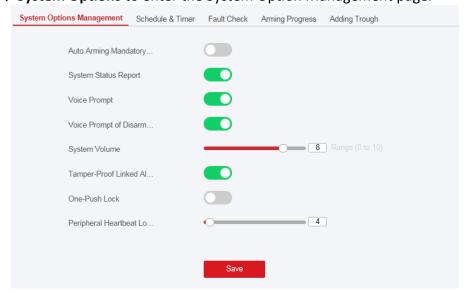
- 2. Check the check box to enable the function.
- 3. Click **Export** to save the debugging file in the PC.

4.3.7 System Settings

Authority Management

Set the authority options.

Click **System** → **System Options** to enter the System Option Management page.



Wireless Device Poll Check

If the option is enabled, the system will detect all radio peripherals heartbeat. If no peripherals

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heartbeat is detected, the system will upload an event.
iNote
For EN, do not switch to OFF.
Arming with Fault
If the option is enabled and there are active faults in a zone, the zone will be bypassed automatically when arming.
iNote
You should disable the arming function in the Advanced Settings page. Or the AX PRO arming with fault function cannot be valid.

AX PRO Status Notification

If the option is enabled, the device will upload report automatically when the AX PRO status is changed.

Disable Function Key

If the option is enabled, all function keys will be disabled.

Voice Prompt

If the option is enabled, the AX PRO will enable the text voice prompt.

Voice Prompt of Disarming and Alarm Clearing

If the option is enabled, the AX PRO will broadcast all system faults before disarming and alarm clearing. Before enable this function, you need to enable **Voice Prompt**.

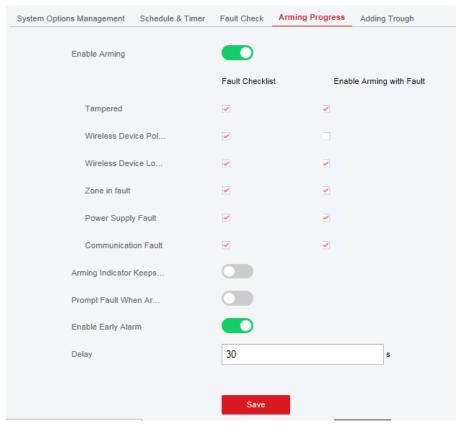
System Volume

The available system volume range is from 0 to 10.

Authority Advanced Settings

Set advanced authority parameters.

Click **System** \rightarrow **System Options** \rightarrow **Arming Progress** to enter the Advanced Settings page.



You can set the following parameters:

Enable Arming

When you enable the function, during the device arming procedure, the system will check the configured fault checklist. When there is fault occurred during the arming procedure, the procedure will be stopped.



PKG keypad and the keyfob do not support this function. If this function is enabled, the arming will fail if there is a fault. It is necessary to eliminate the fault or close the Enable Arming.

Fault Checklist

The system will check if the device has the faults in the checklist during the arming procedure.

Enable Arming with Fault

Check the faults in the Enable Arming with Fault list, and the device will not stop the arming procedure when faults occurred.

Arming Indicator Keeps Light

If the device applies EN standard, by default, the function is disabled. In this case, if the device is armed, the indicator will be solid blue for 5 s. And if the device is disarmed, the indicator will flash 5 times.

When the function is enabled, if the device is armed, the indicator will be on all the time. And if

the device is disarmed, the indicator will be off.

Note

Only -P model supports this function.

Prompt Fault When Arming

If the device applies EN standard, by default, the function is disabled. In this case, the device will not prompt faults during the arming procedure.

iNote

Only -P model supports this function.

Enable Early Alarm

If you enable the function, when the zone is armed and the zone is triggered, the alarm will be triggered after the delay time.

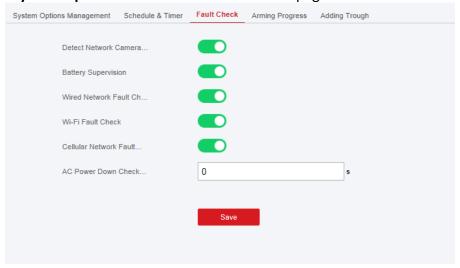
Note

The early alarm will be taken effect only after the delayed zone is triggered.

Fault Check

The system determines whether to check the faults listed on the page. The system will only check the fault that is selected.

Click **System** \rightarrow **System Options** \rightarrow **Fault Check** to enter the page.



Detect Network Camera Disconnection

If the option is enabled, when the linked network camera is disconnected, an alarm will be triggered.

Battery Supervision

If the option is enabled, when battery is disconnected or out of charge, the device will upload events.

Wired Network Fault Check

If the option is enabled, when the wired network is disconnected or with other faults, the alarm will be triggered.

Wi-Fi Fault Check

If the option is enabled, when the Wi-Fi is disconnected or with other faults, the alarm will be triggered.

Cellular Network Fault Check

If the option is enabled, when the cellular data network is disconnected or with other faults, the alarm will be triggered.

SIM Card Fault Check

If the option is enabled, the alarm will be triggered for faults of the SIM card.

AC Power Down Check Time

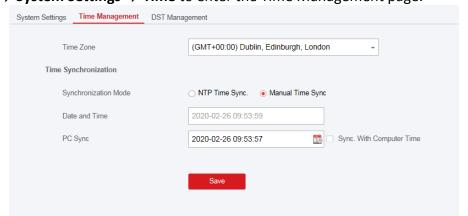
The system checks the fault after the configured time duration after AC power down. To compliant the EN 50131-3, the check time duration should be 10 s.

Time Settings

You can set the device time zone, synchronize device time, and set the DST time. The device supports time synchronization via **Hik-Connect Guarding Vision** server.

Time Management

Click **System** \rightarrow **System Settings** \rightarrow **Time** to enter the Time Management page.



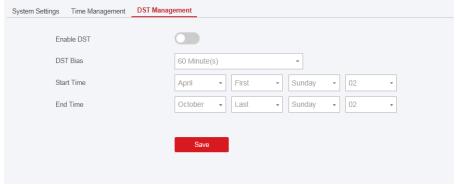
You can select a time zone from the drop-down list.

You can synchronize the device time manually with NTP. Check the check box of NTP Time Sync., enter the server address and port No., and set the synchronization interval.

You can synchronize the device time manually. Or check **Sync. with Computer Time** to synchronize the device time with the computer time.

DST Management

Click **System** \rightarrow **System Settings** \rightarrow **DST Management** to enter the Time Management page.



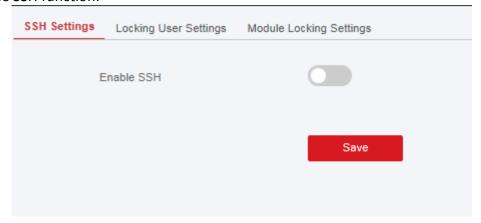
You can enable the DST and set the DST bias, DST start time, and DST end time.

Security Settings

SSH Settings

Enable or disable SSH (Secure Shell) according to your actual needs.

Click **System** \rightarrow **System Security** \rightarrow **SSH Settings** to enter the SSH Settings page and you can enable or disable the SSH function.

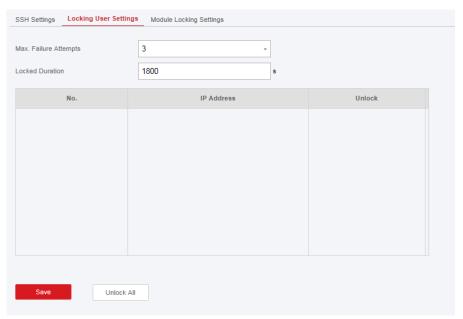


Locking User Settings

Set user locking. You can view the locked user or unlock a user and set the user locked duration.

Steps

Click System → System Security → Locking User Settings to enter the Locking User Settings page.



2. Set the following parameters.

Max. Failure Attempts

If the user continuously input the incorrect password for more than the configured times, the account will be locked.

iNote

The administrator has two more attempts than the configured value.

Locked Duration

Set the locking duration when the account is locked.

iNote

The available locking duration is 5s to 1800s.

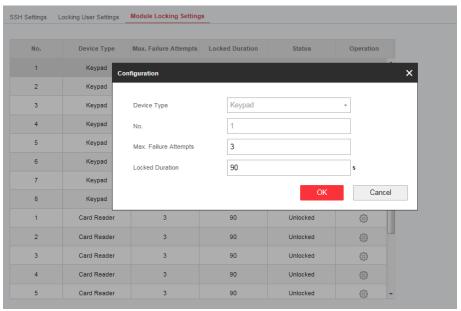
- 3. Click $frac{1}{2}$ to unlock the account or click **Unlock All** to unlock all locked users in the list.
- 4. Click Save.

Module Lock Settings

Set the module locking parameters, including the Max Failure Attempts, and locked duration. The module will be locked for the programmed time duration, once the module authentication has failed for the amount of configured times.

Steps

Click System → System Security → Module Lock Settings to enter the Module Lock Settings page.



- 2. Select a module from the list, and click the 🔮 icon.
- 3. Set the following parameters of the selected module.

Max. Failure Attempts

If a user continuously tries to authentication a password for more than the configured attempts permitted, the keypad will be locked for the programmed duration.

Locked Duration

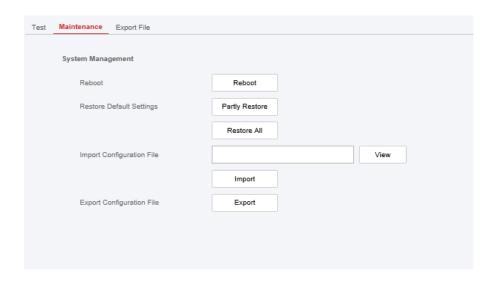
Set the locking duration when the keypad is locked. After the configured duration, the keypad will be unlocked.

- 4. Click OK.
- 5. Optional: Click the **Lock** icon to unlock the locked module.

System Maintenance

You can reboot the device, restore default settings, import/export configuration file, or upgrade the device remotely.

Select the device and click in the client software, or enter the device IP address in the address bar of the web browser. Click **Project Management** \rightarrow **Maintenance** to enter the Upgrade and Maintenance page.



Reboot

Click **Reboot** to reboot the device.

Restore Default Settings

Click **Partly Restore** to restore all parameters except for admin user information, wired network, Wi-Fi network, detector information, and peripheral information to default ones.

Click **Restore All** to restore all parameters to the factory settings.

Import Configuration File

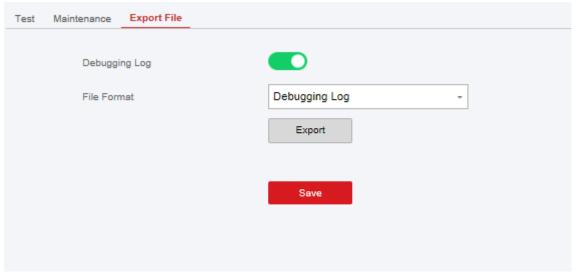
Click **View** to select configuration file from the PC and click **Import Configuration File** to import configuration parameters to the device. Importing configuration file requires entering the password set at the time of exporting.

Export Configuration File

Click **Export Configuration File** to export the device configuration parameters to the PC. Exporting configuration file requires a password to be used for file encryption.

Export File

Click **Project Management** → **Maintain** → **Export File** Enable **Debugging Log** to enable the function.



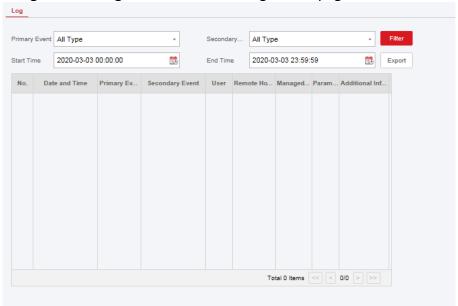
Select file type needs to be exported.

Click Export to export the file.

Local Log Search

You can search the log on the device.

Click **Project Management** \rightarrow **Log** to enter the Local Log Search page.



Select a major type and a minor type from the drop-down list, set the log start time and end time and click **Filter**. All filtered log information will be displayed in the list.

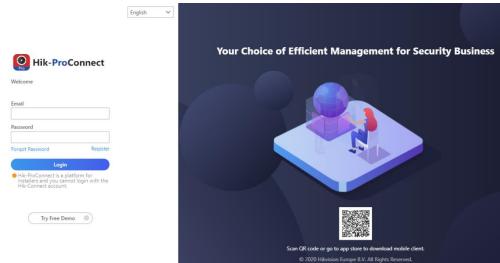
You can also click **Reset** to reset all search conditions.

Device Upgrade

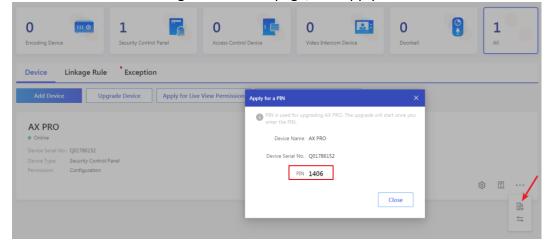
Get Manufacture PIN

To upgrade the device, a manufacture PIN is needed for authentication. The manufacture PIN can only get from the Hik-ProConnect service, which means that the installer, who authorized by administrator at access level 2, has authorized the access at level 4. The manufacture PIN can only work once.

Get PIN from Hik-ProConnect Service



Login with the installer account and enter the page of the device to be upgraded. Click **More Menu** at the lower right side of the page, and apply a PIN.



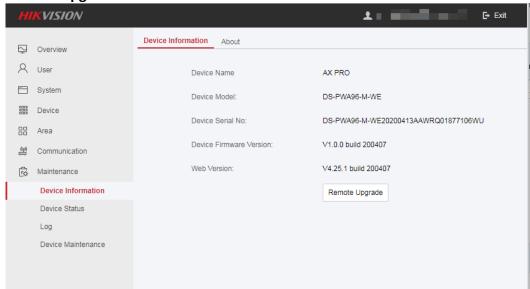
Get PIN from HIKVISION tech-support

It is better to use remote desktop to access the local web client of control panel. The PIN will be authorized according to the standard tech-support procedure.

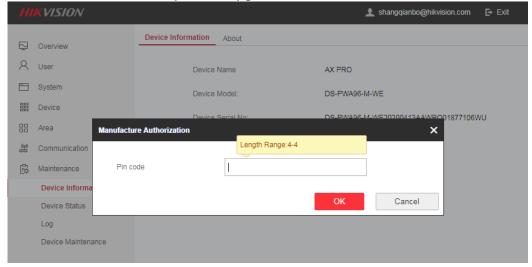
Firmware Upgrade

Steps:

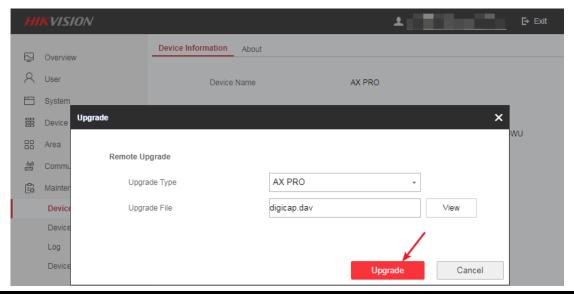
- 1. Click **Maintenance** → **Device Information** to enter the page.
- 2. Click Remote Upgrade.



3. Enter the manufacture PIN to open the upgrade interface.



- 4. Click **View** to find the firmware file with the name digicap.dav.
- 5. Click **Upgrade** to complete.

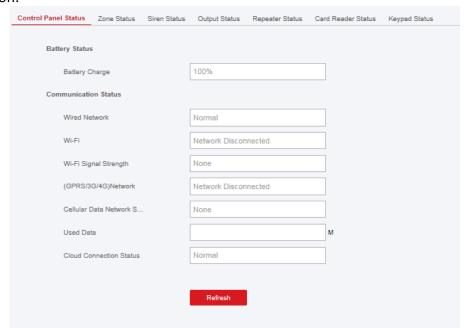




Both of the users and configuration information will be retained after upgrade finished.

4.3.8 Check Status

After setting the zone, repeater, and other parameters, you can view their status. Click **Status**. You can view the status of zone, relay, sounder, keypad, Tag reader, battery, and communication.



- Zone: You can view the zone status, alarm status, detector battery capacity, and signal strength.
- Sounder: You can view sounder status, battery status, and signal strength.
- Output: You can view relay status, battery status, and signal strength.

- Keypad: You can view keypad status, battery status, and signal strength.
- Repeater: You can view repeater working status.
- Tag Reader: You can view Tag reader status, battery status, and signal strength.

4.4 Reporting to ARC (Alarm Receiver Center)

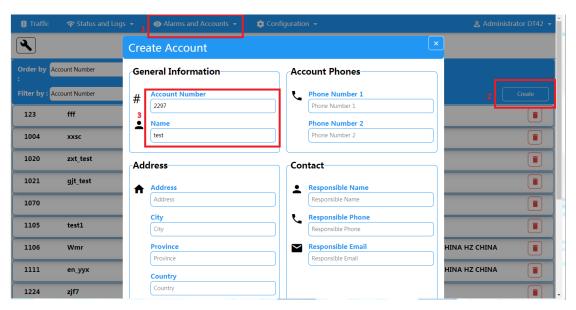
AX Pro wireless control panel is designed with transceiver built in following the guidance of EN 50131-10 and EN 50136-2. Category DP2 is provided with primary network interface of LAN/WiFi and secondary network interface of GPRS or 3G/4G LTE. ATS (Alarm Transmission system) is designed to always use LAN/Wi-Fi network interface when available to save mobile data usage. The secondary network interface provides resilience and reliability during mains power failure.

Setup ATS in Transceiver of Receiving Center Steps:

- 1. Login to the web client of the alarm receiver.
- 2. Click **Configuration** → **IP Reception**, and create a receiving server as shown below.

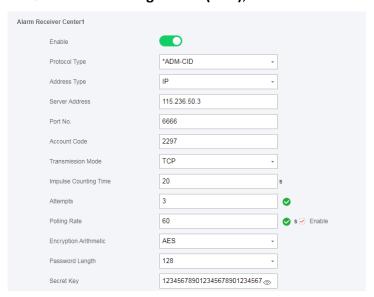


3. Click **Alarms and Accounts** → **Accounts Management**, and assign an account for the panel as show below.



Setup ATS in Transceiver of the Panel Steps:

- 1. Login using installer account from local web client.
- 2. Click Communication → Alarm Receiving Center (ARC), and enable Alarm Receiving Center 1.



= Protocol Setting =

Protocol Type

- ADM-CID
- SIA-DCS
- *ADM-CID
- *SIA-DCS

Select token supported by the receiver in the ARC. Choose the token with "*" mark to improve the communication security.

= Server Setting =

Address Type

- IP
- Domain Name

■ Server Address / Domain Name

■ Port No.

Input IP address or domain name by which the transceiver of receiving center could be reached. Input port number of the server provided by the ARC

= Account Setting =

Account Code

Input the assigned account provided by the ARC.

• = SIA DC-09 Protocol Setting =

■ Transmission Mode

- ТСР
- UDP

Both TCP and UDP are supported for transmission. UDP is recommended by the SIA DC-09 standard.

Connection Setting

• Impulse Counting Time / Retry Timeout Period

Setup the timeout period waiting for receiver to respond. Re-transmission will be arranged if the transceiver of receiving center is timeout.

o Attempts

Setup the maximum number that re-transmission will be tried.

o Polling Rate

Setup the interval between 2 live polling if enable is checked.

■ Encryption Setting

- Encryption Arithmetic
 - AES

Password Length

- **—** 128
- **—** 192
- **—** 256

Secret Key

Setup the encryption key length and input the key provided by the ARC.

Signalling Test

Activate a panic alarm from the control panel.

Login to Receiver. Click **Traffic** to review all the messages received.



Chapter 5 Operations

5.1 Peripheral Enrollment

You can enroll peripheral device to the AX PRO locally, via client software, web client, or mobile client.

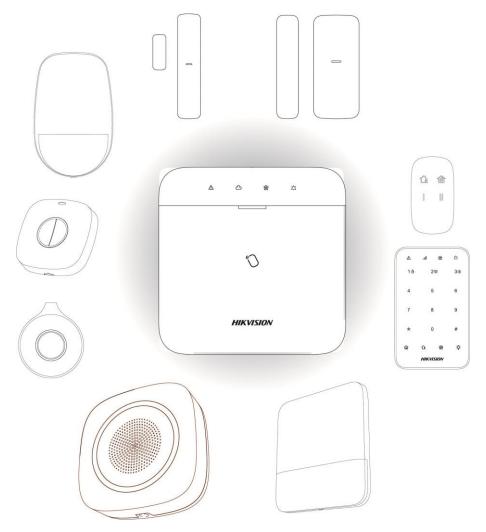


Figure 2-1 Connection

- 1. Power on the AX PRO.
- 2. Log in the Hik-Connect APP and tap the icon "+" . Scan the QR code or input the AX PRO serial No. to add AX PRO.
- 3. Enroll the peripheral locally, with web client, or with APP.

5.2 Arming

You can use keypad, keyfob, Tag, client software, mobile client to arm your system. After the arming command is sending to AX PRO, the sytem will check the detector status. If the detector is in fault, you will need to choose whether to arm the system with fault. While the system is armed, the AX PRO will prompt the result in 5s, and upload the arming report.

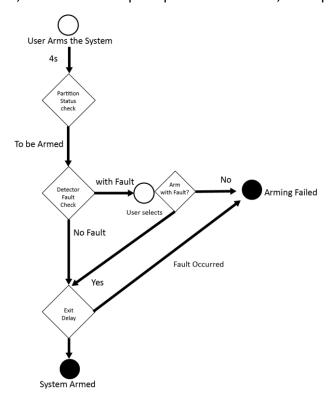


Figure 5-1 Arming Process

Access level of Arming

The user in level 2 or 3 has the permission to arm or partly arm the system.

Arming Indication

The arming/disaring indicator keeps solid blue for 5s.

Reason of Arming Failure

- Intrusion detector triggered (excepts the detector on the exit route).
- Panic alarm device triggered.
- Tampering alarm occurred.
- Communication exception
- Main power supply exception
- Backup battery exception

- Alarm receiving fault
- Sounder fault
- Low battery of the keyfob
- Others

Arming with Fault

While the arming is stopped with fault, user in level 2 has the permission to arm the system with fault (forced arming).

Fored arming only taks effect on the current arming operation.

The forced arming operation will be record in the event log.

5.3 Disarming

You can disarm the system with keypad, keyfob, Tag, client software, or mobile client.

Disarming Indication

The arming/disarming indicator flashes 30s while the user successfully disarm the system through the entry/exit route.

The system will report the disarming result after the operation completed.

Entry Delay Duration

Ensure that timer is no longer than 45 seconds in order to comply with EN50131-1.

Early Alarm

If either the intrusion or tampering alarm occurs on the enter/exit route when the AX PRO is in the status of entry delay, the AX PRO then enters the early alarm mode.

The early alarm duration can be set (> 30s).

The AX PRO will reports the alarm only if the alarm event lasts over the duration of early alarm with the addition of entry delay.

A. Trouble Shooting

A.1 Communication Fault

A.1.1 IP Conflict

Fault Description:

IP that the panel automatically acquired or set is same as other devices, resulting in IP conflicts. Solution:

Search the current available IP through ping. Change the IP address and log in again.

A.1.2 Web Page is Not Accessible

Fault Description:

Use browser to access web pages and display Inaccessible.

Solutions:

- 1. Check whether the network cable is loose and the panel network is abnormal.
- 2. The panel port has been modified. Please add a port to the web address for further access.

A.1.3 Hik-Connect is Offline

Fault Description:

The web page shows that the Hik-Connect is offline.

Solution:

Network configuration of the panel is error, unable to access extranet.

A.1.4 Network Camera Drops off Frequently

Fault Description:

System reports multiple event logs of IPC disconnection and connection.

Solution:

Check whether the network communication or camera live view is proper.

A.1.5 Failed to Add Device on APP

Fault Description:

When using APP to add devices, it is prompted that the device fails to be added, the device could not be found, etc.

Solution:

Check the web page: whether the Hik-Connect is offline.

A.1.6 Alarm Information is Not Reported to APP/4200/Alarm Center

Fault Description:

After the alarm is triggered, the app/4200/ alarm center does not receive the alarm message.

Solution:

"Message push" - "alarm and tamper-proof notice" is not enabled. You should enable "alarm and tamper-proof notice".

A.2 Mutual Exclusion of Functions

A.2.1 Unable to Enter Registration Mode

Fault Description:

Click the panel function key, and prompt key invalid.

Solution:

The panel is in "Hotspot" mode. Switch the panel to "station" mode, and then try to enter the registration mode again.

A.3 Zone Fault

A.3.1 Zone is Offline

Fault Description:

View status of zones which displays offline.

Solution:

Check whether the detector reports undervoltage. Replace the detector battery

A.3.2 Zone Tamper-proof

Fault Description:

View status of zones which displays tamper-proof.

Solution:

Make tamper-proof button of the detector holden.

A.3.3 Zone Triggered/Fault

Fault Description:

View status of zones which displays triggered/fault.

Solution:

Reset the detector.

A.4 Problems While Arming

A.4.1 Failure in Arming (When the Arming Process is Not Started)

Fault Description:

When the panel is arming, prompt arming fails.

Solution:

The panel does not enable "forced arming", and when there is a fault in the zone, the arming will fail. Please turn on the "forced arming" enable, or restore the zone to the normal status.

A.5 Operational Failure

A.5.1 Failed to Enter the Test Mode

Fault Description:

Failed to enable test mode, prompting "A fault in the zone".

Solution:

Zone status, alarm status or zone power is abnormal.

A.5.2 The Alarm Clearing Operation on the Panel Does Not Produce the Alarm Clearing Report

Fault Description:

The alarm clearing operation on the panel does not produce the alarm clearing report.

Solution:

In the absence of alarm, no report will be uploaded for arm clearing.

A.6 Mail Delivery Failure

A.6.1 Failed to Send Test Mail

Fault Description:

when configure the mail information, click "test inbox" and prompt test fails.

Solution:

Wrong configuration of mailbox parameters. Please edit the mailbox configuration information, as shown in table 1/1.

A.6.2 Failed to Send Mail during Use

Fault Description:

Check the panel exception log. There is "mail sending failure".

Solution

The mailbox server has restricted access. Please log in to the mailbox to see if the mailbox is locked.

A.6.3 Failed to Send Mails to Gmail

Fault Description:

The receiver's mailbox is Gmail. Click "Test Inbox" and prompt test fails.

1. Google prevents users from accessing Gmail using apps/devices that do not meet their security standards.

Solution:

Log in to the website (https://www.google.com/settings/security/lesssecureapps), and "start using access of application not safe enough". The device can send mails normally.

2. Gmail does not remove CAPTCHA authentication.

Solution: Click the link below, and then click "continue"

(https://accounts.google.com/b/0/displayunlockcaptcha).

A.6.4 Failed to Send Mails to QQ or Foxmail

Fault Description:

The receiver's mailbox is QQ or foxmail. Click "Test Inbox" and prompt test fails.

1. Wrong QQ account or password.

Solution:

the password required for QQ account login is not the password used for normal login. The specific path is: Enter the email account \rightarrow device \rightarrow account \rightarrow to generate the authorization code, and use the authorization code as the login password.

2. SMTP login permission is needed to open.

A.6.5 Failed to Send Mails to Yahoo

Fault Description:

The receiver's mailbox is yahoo. Click "test inbox" and prompt test fails.

1. The security level of mailbox is too high.

Solution:

Go to your mail account and turn on "less secure sign-in".

A.6.6 Mail Configuration

Table A-1 Mail Configuration

Mail Type	Mail Server	SMTP Port	Protocols Supported
Gmail	smtp.gmail.com	587	TLS/STARTTLS (TLS)
Outlook	smtp.office365.com	587	STARTTLS (TLS)
Hotmail	smtp.office365.com	587	STARTTLS (TLS)
QQ	smtp.qq.com	587	STARTTLS (TLSv1.2)

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Mail Type	Mail Server	SMTP Port	Protocols Supported
Yahoo	smtp.mail.yahoo.com	587	STARTTLS (TLSv1.2)
126	smtp.126.com	465	SSL/TLS
Sina	smtp.sina.com	25/465/587	SSL/TLS/STARTTLS (SSL/TLS)

Note

About mail configuration:

- SMTP portDefault to use port 25 without encryption, or using port 465 if SSL/TLS is used. Port 587 is mainly used for STARTTLS protocol mode.
 - The STARTTLS protocol mode that is usually used by default when selecting TLS.
- User nameUser name of Outlook and Hotmail require full names, and other email require a prefix before @.

B. Input Types

Table B-1 Input Types

Input Types	Operations
	The system will immediately alarm when it detects triggering event after system armed.
Instant Zone	Audible Response Trigger the system sound and sounder.
	Voice Prompt: Zone X alarm.
	The system will immediately alarm when it detects triggering event after system armed.
Perimeter Zone	Audible Response: Trigger the system sound and sounder. There is a configurable interval between alarm and sounder output, which allows you to check the alarm and cancel the sounder output during the interval.
	Voice Prompt: Zone X perimeter alarm.
	The system provides you time to leave through or enter the defense area without alarm.
Delayed Zone	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Zone X alarm.
Follow Zone	The zone acts as delayed zone when it detects triggering event during system Entry Delay, while it acts as instant zone otherwise.
	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Zone X follow alarm.
24H Silence Zone	The zone activates all the time without any sound/sounder output when alarm occurs.
24h Silence Zone	Audible Response: No system sound (voice prompt or sounder).
	The zone activates all the time.
Panic Zone	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Zone X panic alarm.
Fire Zone	The zone activates all the time with sound/sounder output when alarm occurs.

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Input Types	Operations
	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Zone X fire alarm.
	The zone activates all the time with sound/sounder output when alarm occurs.
Gas Zone	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Zone X gas alarm.
	The zone activates all the time with beep confirmation when alarm occurs.
Medical Zone	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Zone X medical alarm.
Timeout Zone	The zone activates all the time. The zone type is used to monitor and report the "ACTIVE" status of a zone, but it will only report and alarm this status after the programmed time has expired (1 to 599) seconds.
Disabled Zone	Alarms will not be activated when the zone is triggered or tampered.
Disabled Zoffe	Audible Response: No system sound (voice prompt or sounder).
	The system will immediately alarm when it detects triggering event after system armed.
Virtual Zone (Keypad/Keyfob)	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Buzzer beeps.
	The system will immediately alarm when it detects triggering event after system armed.
Tamper Alarm	Audible Response: Trigger the system sound and sounder.
	Voice Prompt: Zone X tampered.
	Trigger the linked device when event occurs.
Link	e.g. The output expander linked relays will be enabled when the AX PRO is armed.
Arm	When armed: Voice prompt for fault. You can handle the fault according to the voice prompt.
	 System sound for arming with Tag or keyfob. Voice prompt for fault. You can handle the fault according to the voice prompt.

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Input Types	Operations
	Fault event displays on client. You can handle the fault via client software or mobile client.
	Voice Prompt: Armed/Arming failed.

C. Output Types

Table C-1 Output Types

Output Types	Active	Restore
Arming	Arm the AX PRO	After the configured output delay
Disarming	Disarm the AX PRO	After the configured output delay
Alarm	When alarm event occurs. The alarm output will be activated after the configured exit/enter delay.	After the configured output delay, disarm the AX PRO or clear alarm
Zone Linkage	When alarm event occurs, the linked relay will output alarm siganl.	After the configured output duration
Manual Operation	Enable relays manually	Over the triggering time or disable the relays manually

D. Event Types

Table D-1 Event Types

Event Types	Custom	Default 1 (client software notification)	Default 2 (alarm receiving center 1/2)	Default 3 (mobile client)	Default 4 (telephone)
Alarm and Tamper	×/ V	٧	V	٧	V
Life Safety Event	×/√	V	V	V	V
System Status	×/V	٧	×	×	×
Panel Management	×/√	V	×	×	×

E. Access Levels

Level	Description
1	Access by any person; for example the general public.
2	User access by an operator and administrator; for example customers (systems users).
3	User access by an installer; for example an alarm company professional.

Table E-1 Permission of the Access Level

Function	Permission		
	1	2	3
Arming	No	Yes	Yes
Disarming	No	Yes	Yes
Restoring/Clearing Alarm	No	Yes	Yes
Entering Walk Test Mode	No	Yes	Yes
Bypass(zone)/Disabling/Force Arming	No	Yes	Yes
Adding/Changing Verification Code	No	Yes ^d	Yes ^d
Adding/Editing Level 2 User and Verification Code	No	Yes	Yes
Adding/Editing Configuration Data	No	No	Yes
Replacing software and firmware	No	No	No

Note

- The user level 2 can assign the login permission of the controller to the user level 3 in the settings page.
- The user level 2 should assign permissions to the user level 3 if the user level 3 wants to login the controller remotely.
- When the controller is bypassed, the user level 3 can login the controller without the permission assignment of the user level 2.

^a By the condition of being accredited by user in level 2.

^bBy the condition of being accredited by user in level 2 and level 3.

^dUsers can only edit their own user code.

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•	When the controller is bypassed, the user level 3 can login the controller without the permission
	assignment of the user level 2.

• The user level 4 can login the controller only when the user level 2 or level 3 has assigned permissions to the user level 4.

F. Signalling

Detection of ATP/ATS Faults

ATP (Alarm Transmission Path) faults will be detected when network interface of the control panel disconnected or the transmission path to the transceiver of receiving center located in ARC blocked somewhere in between. An ATS (Alarm Transmission System) fault will be reported when ATP faults are detected on both transmission paths.

ATP restore will be detected as soon as network interface connected and the transmission path to the transceiver of receiving center restored. ATS restore will be reported when ATP restore of any transmission path is detected.

The timing performance of detecting ATP faults and restores shows in the table below.

	TN	Maximum timing of detection
Primary ATP failure/restore	LAN/WiFi	10 min
Secondary ATP failure/restore —	GPRS	60 min
	3G/4G LTE	20 min (when primary ATP failed)

Signalling will be always transmitted from primary ATP when it is operational. Otherwise it will be automatically switched to secondary transmission path that is operational at the moment. Both primary and secondary ATP fault and restore events will be reported to ARC when there is an ATP left to work. They will also be recorded to mandatory log memory with capacity of 1000 records allocated in non-volatile flash memory storage, as well as the ATS fault record. The detail of reports and log records are listed in the table below.

	Event code when signalling	Event log description
Primary ATP failure/restore	E351/R351	LAN Path Failed/LAN Path Recovery
Secondary ATP failure/restore	E352/R352	Mobile Net Path Failed/Mobile Net Path
		Recovery
ATS failure/restore	N/A	ATS Failed
Primary network interface failure/restore	E351/R351	LAN Path Failed/LAN Path Recovery
Secondary network interface failure/restore	E352/R352	Mobile Net Path Failed/Mobile Net Path
		Recovery

ATS Category

The ATS category of AXPRO is DP2. While the alarm receiving center is enabled. The control panel will upload alarm report to the receiver center via the main path (LAN or Wi-Fi) or the back-up path (3G/4G). If the control panel is properly connected to the LAN or Wi-Fi, the main path is selected as the transmission path. If the main path connection is failed, the path will be switched to 3G/4G. And if the main path connection is restored, the path will be switched back to LAN or Wi-Fi. The control panel checks the connection status continuously, and generates logs transmission fault for any of the path. While both of the paths are invalid, the control panel determines ATS fault.

G. SIA and CID Code

Table F-1 SIA and CID Code

SIA Code	CID Code	Description
BA	E130	Burglary Alarm
ВН	R130	Burglary Alarm Restored
НА	E122	Silent Panic Alarm
НН	R122	Silent Panic Alarm Restored
NA	E780	Timeout Alarm
ВН	R780	Timeout Alarm Restored
PA	E120	Panic Alarm
PH	R120	Panic Alarm Restored
BA	E131	Perimeter Alarm
ВН	R131	Perimeter Alarm Restored
BA	E134	Entry/Exit Alarm
ВН	R134	Entry/Exit Alarm Restored
TA	E137	Device Tampered
TR	R137	Device Tamper Restored
TA	E383	Detector Tampered
TR	R383	Detector Tamper Restored
TA	E321	Wireless Sounder Tampered
TR	R321	Wireless Sounder Tamper Restored
TA	E334	Wireless Repeater Tampered
TR	R334	Wireless Repeater Tamper Restored
ES	E341	Expander or Wireless Device Tampered
EJ	R341	Expander or Wireless Device Tamper Restored

SIA Code	CID Code	Description
PA	E120	Keypad/Keyfob Panic Alarm
MA	E100	Medical Alarm
МН	R100	Medical Alarm Restored
GA	E151	Gas Leakage Alarm
GH	R151	Gas Leakage Alarm Restored
FA	E110	Fire Alarm
FH	R110	Fire Alarm Restored
OP	E401	Disarming
CL	R401	Away Arming
OA	E403	Auto Disarming
CA	R403	Auto Arming
ВС	E406	Alarm Clearing
CL	R441	Stay Arming
CD	E455	Auto Arming Failed
ВВ	E570	Zone Bypassed
BU	R570	Zone Bypass Restored
СТ	E452	Late to Disarm
AT	E301	AC Power Loss
AR	R301	AC Power Restored
YT	E302	Low System Battery
YR	R302	Low System Battery Restored
XT	E384	Low Keyfob Battery
XR	R384	Low Keyfob Battery Restored
YM	E311	Battery Fault
YR	R311	Battery Fault Restored
DK	E501	Keypad Locked
DO	R501	Keypad Unlocked
TS	E607	Test Mode Entered
TE	R607	Test Mode Exited

SIA Code	CID Code	Description
RN	E305	AX PRO Reset
UY	E321	Wireless Sounder Disconnected
UJ	R321	Wireless Sounder Connected
UY	E381	Wireless Detector Disconnected
UJ	R381	Wireless Detector Connected
ХТ	E384	Wireless Detector Low Voltage
XR	R384	Normal Wireless Detector Voltage
ET	E333	Expander or Wireless Device Disconnected
ER	R333	Expander or Wireless Device Connected
UY	E334	Wireless Repeater Disconnected
UJ	R334	Wireless Repeater Connected
NT	E352	Cellular Data Network Disconnected
NR	R352	Cellular Data Network Connected
NT	E352	SIM Card Exception
NR	R352	SIM Card Restored
NT	E352	Network Flow Exceeded
NT	E351	IP Address Conflicted
NR	R351	Normal IP address
NT	E351	Wired Network Exception
NR	R351	Normal Wired Network
NT	E351	Wi-Fi Communication Fault
NR	R351	Wi-Fi Connected
XQ	E344	RF Signal Exception

SIA Code	CID Code	Description
XH	R344	Normal RF Signal
/	E306	Expander Deleted
/	R306	Expander Added
/	E306	Detector Deleted
/	R306	Detector Added
/	E306	Wireless Repeater Deleted
/	R306	Wireless Repeater Added
/	E306	Wireless Sounder Deleted
/	R306	Wireless Sounder Added
BA	E130	Burglary Alarm
ВН	R130	Burglary Alarm Restored
XT	E338	Low Wireless Device Battery
XR	R338	Low Wireless Device Battery Restored
LB	E627	Programming Mode Entered
LX	E628	Programming Mode Exited
CI	E454	Arming Failed
/	R250	Patrol
/	E306	Wireless Device Deleted
/	R306	Wireless Device Added
XT	E384	Low Wireless Sounder Battery
XR	R384	Low Wireless Sounder Battery Restored
NT	E351	Wired Network/Wi-Fi ATP Failed
NR	R351	Wired Network/Wi-Fi ATP Restored
NT	E352	Cellular Network ATP Failed
NR	R352	Cellular Network ATP Restored
CS	1409	Key Zone Disarmed

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SIA Code	CID Code	Description
OS	3409	Key Zone Armed

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