

User Manual

DNAKE C112



REMARK

Please follow the user manual for correct installation and testing. If there is any doubt please call our tech-supporting and customer center.

Our company applies ourselves to reformation and innovation of our products. No extra notice for any change. The illustration shown here is only for reference. If there is any difference, please take the actual product as the standard.

The product and batteries must be handled separately from household waste. When the product reaches the end of service life and needs to be discarded, please contact the local administrative department and put it in the designated collection points in order to avoid the damage to the environment and human health caused by any disposal. We encourage recycling and reusing the material resources.

CATALOG

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PRODUCT FEATURE

1. Compact Design
2. 2MP, 1080P HD Camera, WDR
3. Motion Detection
4. Tamper Alarm
5. Optional WIFI and Bluetooth

TECHNICAL PARAMETER

Power Supply: PoE (802.3af) or DC 12V/2A

Resolution: 1920 x 1080

Working Temperature: -40℃ to +55℃

Storage Temperature: -40℃ to +70℃

Working Humidity: 10% to 90% (non-condensing)

PACKAGE CONTENT

MODEL: C112



C112



Screw Fixing Seat
(3 pcs)



PA4×25
(3 pcs)



Rear Cover



Rain Hood



Sealing Plug of
Wiring Port



Junction Pressing



PM2×6
(2 pcs)



FM3×6
(1 pcs)



FM3×6
(1 pcs)

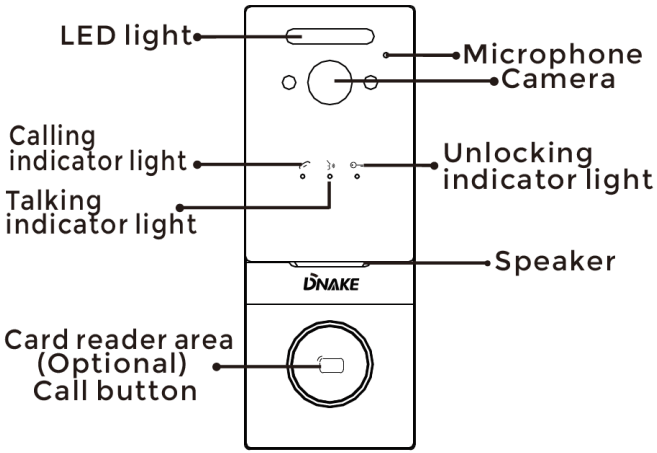


Wrench Screw
(T10)



Quick Start Guide

OVERVIEW



Note:

Calling indicator light: The 1st indicator light will activate if the call button is pressed.

Talking indicator light: The 2nd indicator light will activate if the call is picked up or the Door Station is being actively monitored.

Unlocking indicator light: The 3rd indicator light activates for 3 seconds when the door is unlocked.

Relay Outputs: Supports 1 relay output.

BASIC OPERATION

1. Call and Monitor

1.1. Call Indoor Monitor

In standby mode, press button on Villa Station to call Indoor Monitor. During the call, press button on Villa Station again to end the call. If the call fails or Indoor Monitor is busy, Villa Station will make a beep sound.

1.2. Monitor Villa Station

Click Doors icon on Indoor Monitor's homepage to monitor Villa Station.

2. Add Cards by Admin Card

2.1. Add other cards

Step 1: Tap the admin card once;

Step 2: And then tap other cards immediately. Other cards you have tapped can be used to open the door;

Step 3: Tap the admin card again to finish.

2.2. Delete other cards one by one

Step 1: Tap the admin card four time;

Step 2: And then tap other cards immediately. Other cards you have tapped will be deleted;

Step 3: Tap the admin card again to finish.

2.3. Delete all other cards

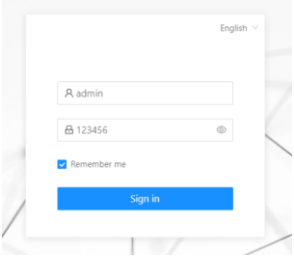
Tap the admin card five times. All the other cards will be deleted.

Tips: The admin card can only be used to manage cards. It cannot be used to open the door.

WEB SETTING

Connect Door Station and PC to a network switch in the same LAN. You can enter the IP address of Door Station in the web browser search bar and log in with the default account (admin) and password (123456). This is where you can configure the device.

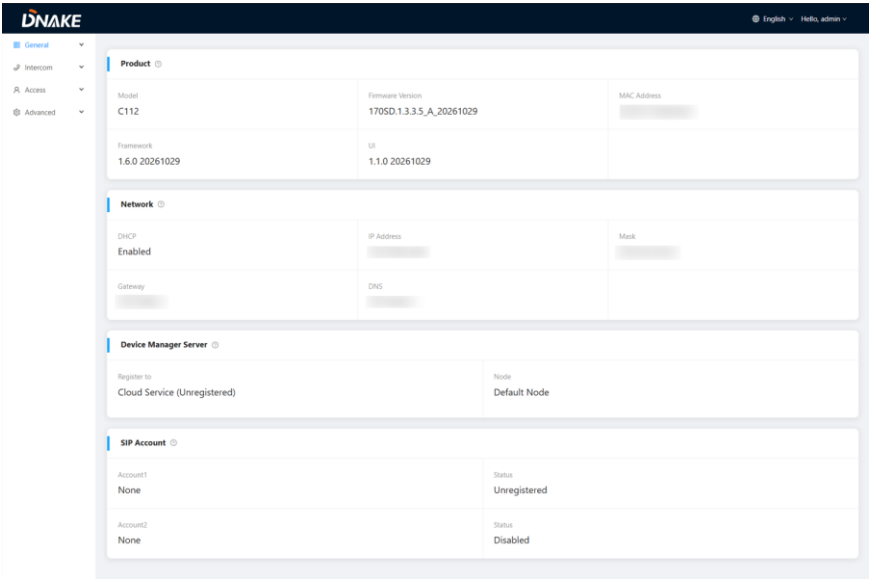
To get the IP address, you can search by DNAKE Remote Upgrade Tool installed in the same LAN with the devices.



1. General

1.1. General > Information

When you first log in to the web interface, you can find basic information displayed in this dashboard.

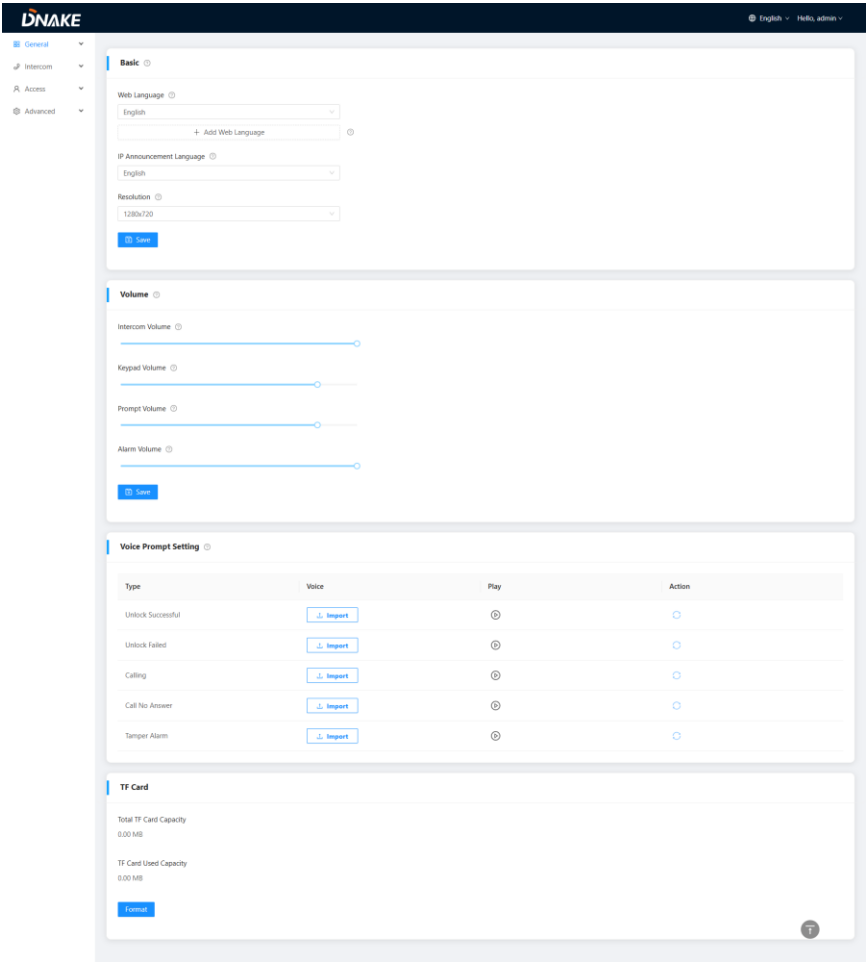


Category	Parameter	Description
Product	Model:	Model of the device;
	Firmware Version:	Firmware version of the device;
	MAC Address:	MAC address of the device;
	Framework:	Framework of the device;
	UI:	UI of the device;
Network	DHCP:	Status of DHCP;
	IP Address:	Current IP address of the device;
	Mask:	Subnet mask of the device;
	Gateway:	Gateway of the device;
	DNS:	Domain Name Server of the device;
Device Manager Server	Register To	Displays the selected cloud service type and its current status.
	Node	Node information of the management server to which the device is connected
SIP Account	Account:	SIP account of the device;

	Status:	Status of SIP registration of the device;

1.2. General > Basic

Language, resolution and volume of the device can be configured in this column.

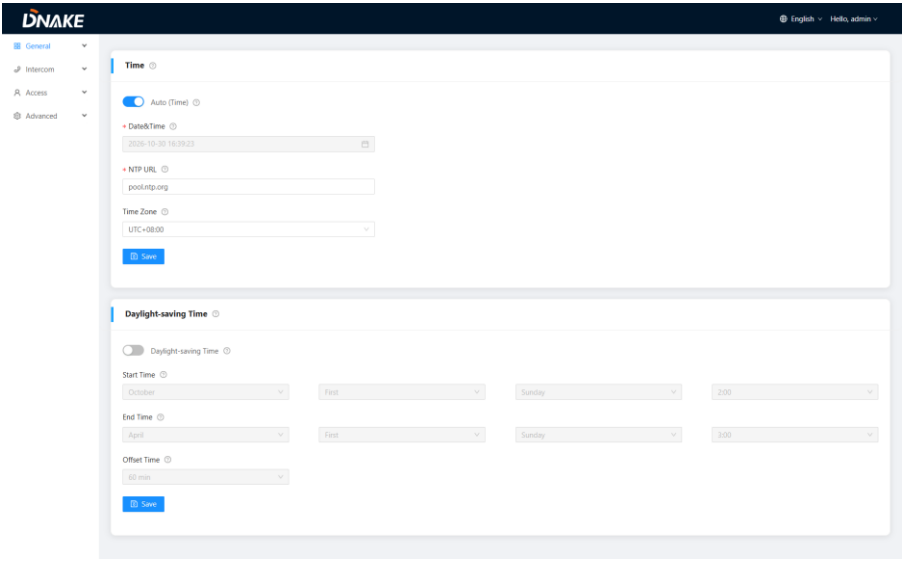


Category	Parameter	Description
Basic	Web Language:	Configure the language displayed on the web interface. 5 languages supported;
	Add Web Language	Configure the custom language displayed on the web interface. You can submit a custom language package and name this language.
	IP Announcement Language	Configure the language for announcing the device's IP address; Press and hold the Call button for 5 seconds to trigger the IP address announcement.
	Resolution:	3 resolutions supported (640 × 480, 1280 × 720 and 1920 × 1080);
Volume	Intercom:	Volume of Intercom can be set from 0 to 6;
	Keypad Volume:	Volume of Keypad can be set from 0 to 6;
	Prompt Volume:	Volume of Prompt can be set from 0 to 6;
	Alarm Volume:	Volume of Alarm can be set from 1 to 6;
Voice Prompt Setting	Type:	The Voice Prompt trigger type, supports custom audio prompts for specific events, including Unlock Successful, Unlock Failed, Calling, Call No Answer, Tamper Alarm, and other supported event types;
	Voice:	Click Import File to upload a voice prompt file;
	Play:	Click Play to preview the voice prompt;

TF Card	Total TF Card Capacity:	Displays the total capacity of the inserted TF card.
	TF Card Used Capacity:	Displays the used capacity of the inserted TF card.

1.3. General > Time

Time of the device can be configured. Daylight Saving Time is also supported.

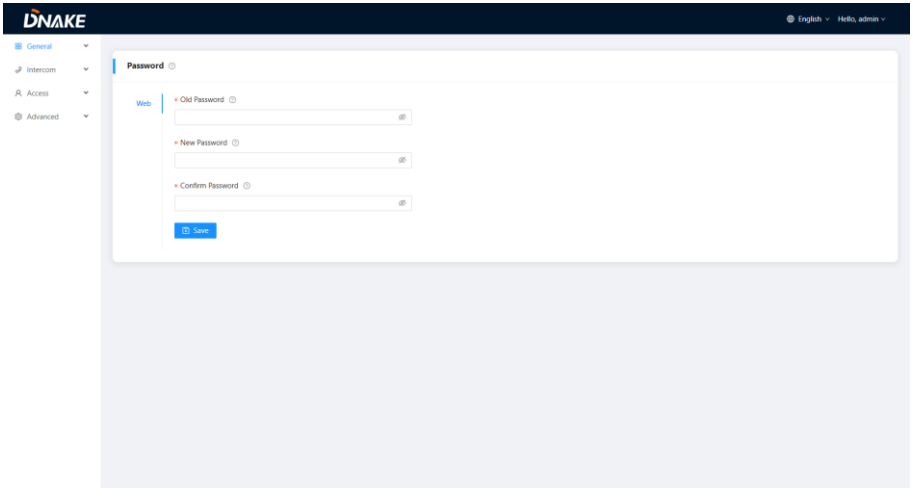


Category	Parameter	Description
Time	Auto (Time):	Enable to synchronize computer time;
	Date & Time:	Date and time can be set manually;
	NTP URL:	Network Time Protocol (NTP) is a protocol used to synchronize computer time;
	Time Zone:	A region that observes a uniform standard time;

Daylight-Saving Time	Daylight-saving Time:	A region that observes a uniform standard time;
	Start Time:	Enable to set DST;
	End Time:	The beginning of DST;
	Offset Time:	The ending of DST;

1.4. General > Password

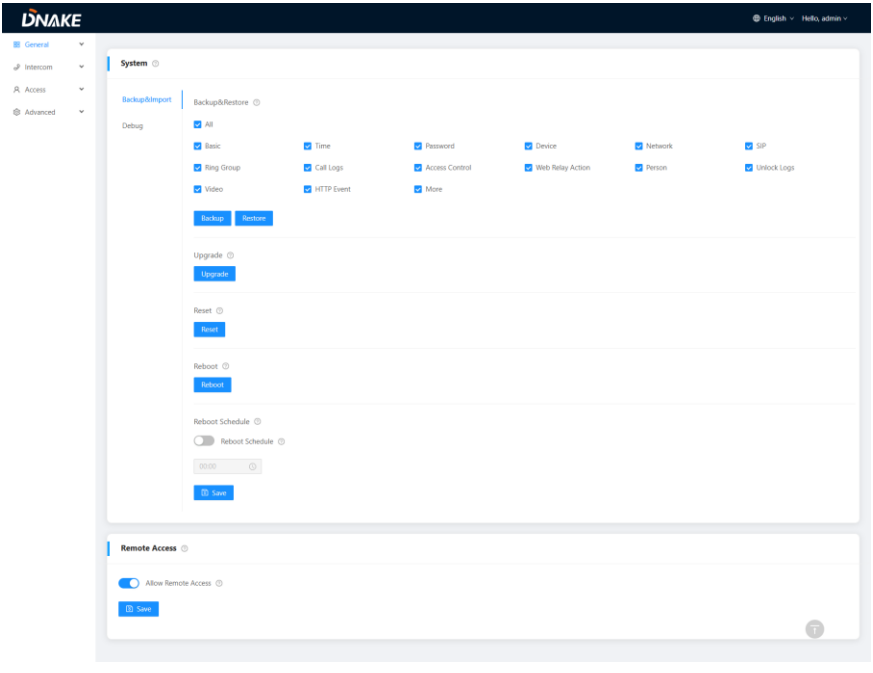
The Web password is for the administrator to log in settings on the web. The default password is 123456.

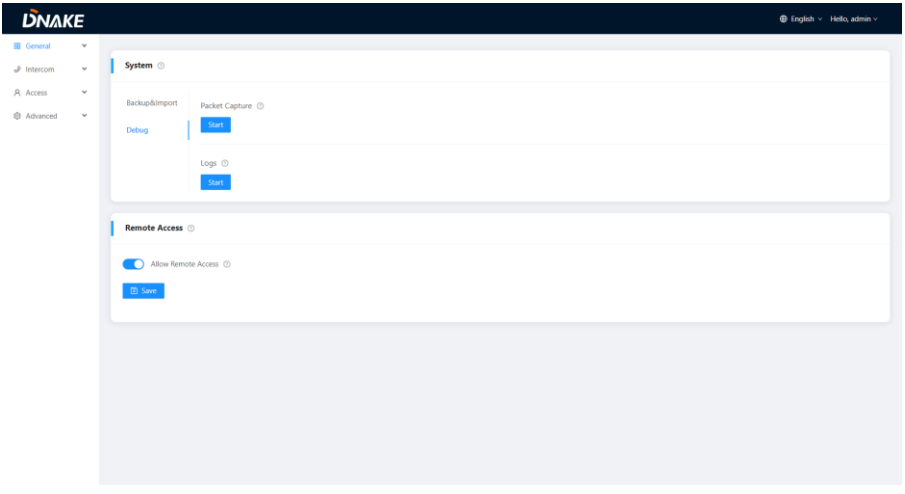


Category	Parameter	Description
Web	Web Old Password:	Current administrator password of the web (Default 123456);
	Web New Password:	New administrator password of the web;
	Web Confirm Password:	Confirm administrator password of the web;

1.5. General > System

The system column is designed for data backup and restore, firmware upgrade, factory default, device reboot, packet capture, logs capture, and obtaining UI screenshots.





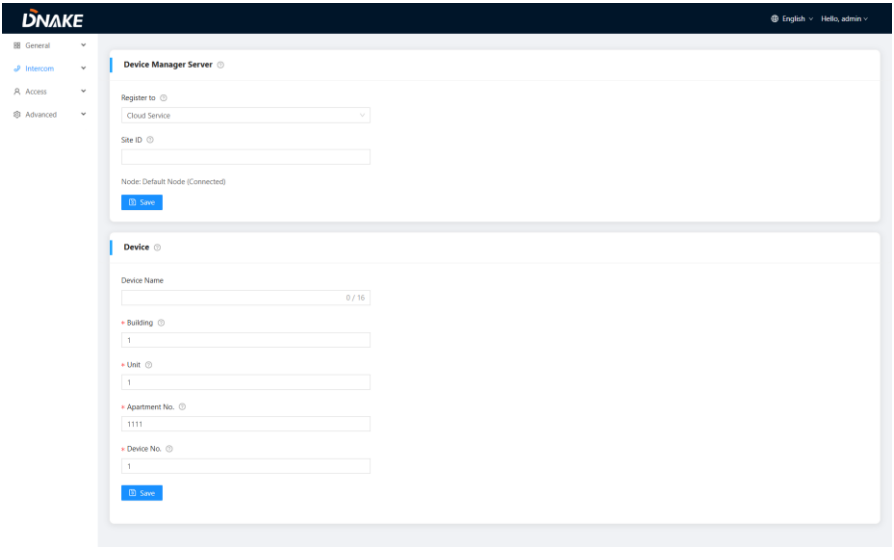
Category	Parameter	Description
Backup & Import	Backup & Restore:	Backup all setting and restore settings;
	Upgrade:	Upgrade equipment;
	Reset:	Reset to factory settings;
	Reboot:	Reboot the device;
	Reboot Schedule	Enable or disable device schedule reboot function;
	Time	Set the scheduled time for the device to reboot periodically.;
Debug	Packet Capture:	Capturing packets can help developers reproduce positioning problems;
	Logs:	Device logs;
Remote Access	Allow Remote Access	Enable or disable remote access device web page function.

2. Intercom

2.1. Intercom > Device

Numbers here are basic settings for making a call to Indoor Monitor. For Door Station, the building and unit number should be the same as those in Indoor Monitor. For Villa Station with one button, the building, unit, and room number should be the same as those in Indoor Monitor.

The device number here is to distinguish different Door Stations when more than one Door Station is in one building.

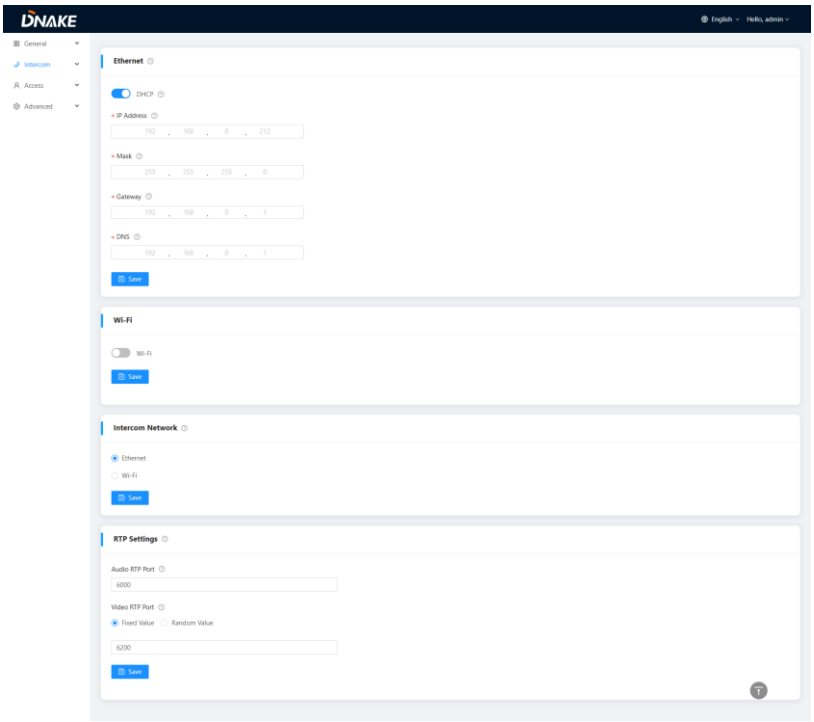


Category	Parameter	Description
Device Manager Server	Reg to	Configure CMS or Cloud Platform device management server the device registers with
	Site ID / CMS IP	When Cloud Platform Service is selected, enter the corresponding Site ID in this field. When CMS service is selected, enter the corresponding CMS IP in this field.

	Node	When the Cloud Platform Service is enabled, the Node field displays the cloud platform node to which the device is currently connected, along with its connection status.
Device	Device Name:	Name of the Device
	Device Mode:	Mode for apt. and wall (Unit and wall);
	Building No:	Number of the building;
	Unit No:	Number of the unit;
	Device No:	Number of the device;

2.2. Intercom > Network

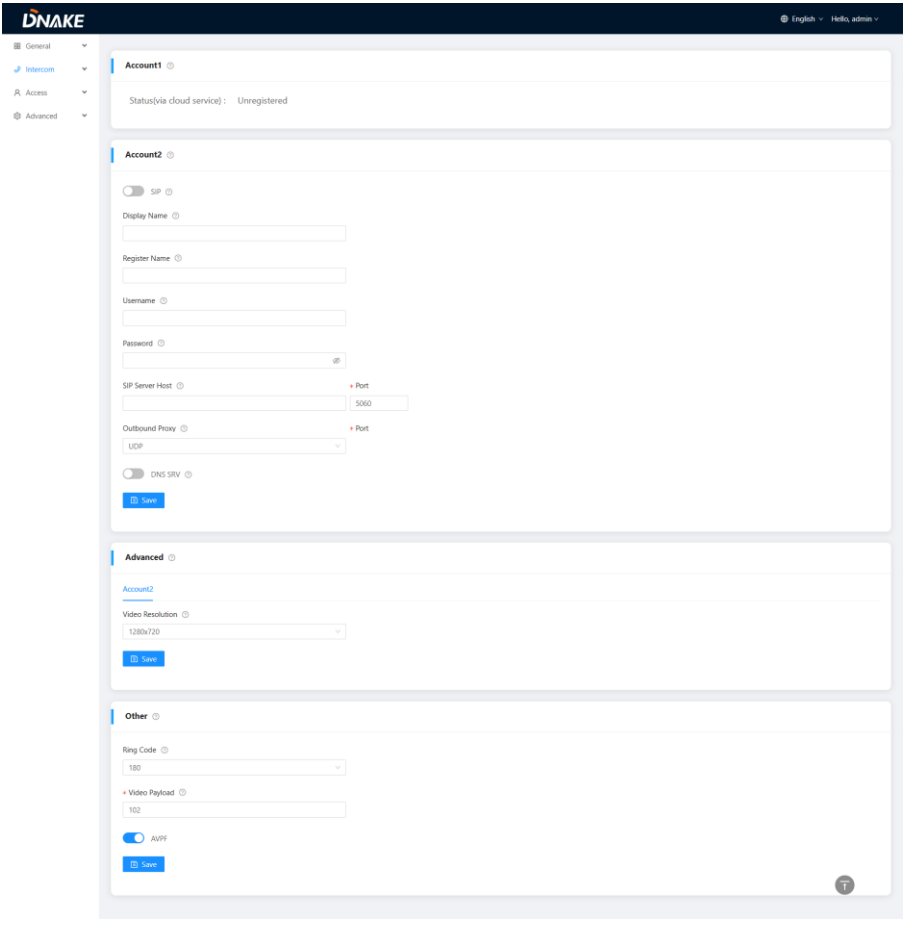
The device network can be set to either DHCP or a static IP address.



Category	Parameter	Description
Network	DHCP:	Enable DHCP (Dynamic Host Configuration Protocol) to dynamically distribute network configuration parameters;
	IP Address:	Configure Static IP address to manually distribute network configuration parameters;
	Mask:	Subnet mask;
	Gateway:	A component that is part of two networks, which use different protocols;
	DNS:	Domain Name Server of the device;
Wi-Fi	Wi-Fi	Enable or disable the Wi-Fi function, when enable the Wi-Fi list will display, click the lock icon and enter password to connect Wi-Fi
Intercom Network	Intercom Network	When Ethernet/Wi-Fi is selected, the call will us e the wired/Wi-Fi network.
RTP Settings	Audio RTP Port	Configure the audio RTP port of device
	Video RTP Port	Configure the video RTP port of device

2.3. Intercom > SIP

The SIP column concerns SIP registration, Display Name, Register Name, Username, Password, SIP Server Host, Outbound Proxy, Transfer Protocol, Video Payload, etc.

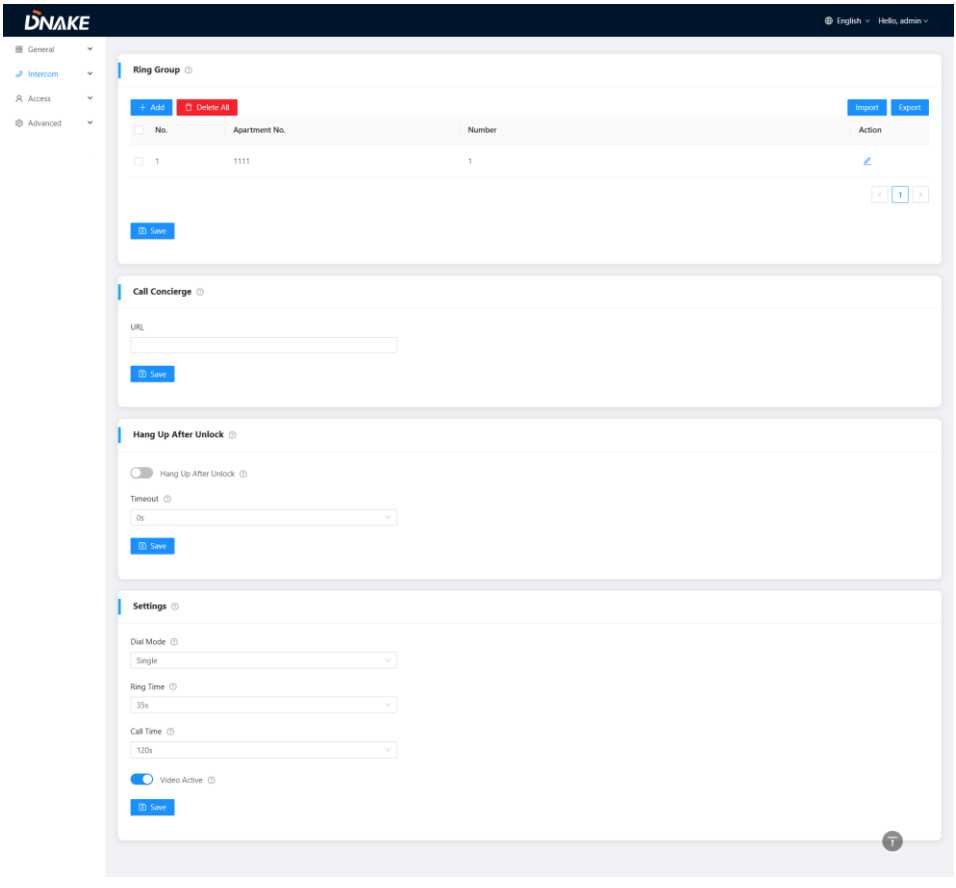


Category	Parameter	Description
SIP	SIP:	Enable to use SIP;
	Display Name:	Display name of SIP;
	Register Name	Configure the register name when the device registers with the SIP server
	Username:	Username of SIP;
	Password:	Password of SIP;

	SIP Server Host:	Configure the server address and port number when the device registers with the SIP server.;
	Outbound Proxy:	Configure the outbound address and port number when the device registers with the SIP server.
	Registration Duration:	Configure the registration duration when the device registers with the SIP server.
	Transport Protocol:	Configure the message transmission protocol when the device registers with the SIP server.
	DNS SRV	Configure whether to enable the DNS SRV function when the device registers with the SIP server.
Advanced	Video Resolution	Configure the resolutions for SIP 1 and SIP 2. The configured resolution is applied to calls made using the corresponding SIP account.
Other	Ring Code	Configure the ring code of the device
	Video Payload	Configure the video payload for device calls. This configuration is effective for both SIP communication and local calls.
	AVPF	Enables the RTP feedback profile for SIP audio and video communication.

2.4. Intercom > Ring Group

Ring group is for setting up SIP calls or call mode. Concierge button, the length of the call and ring time can also be configured here.

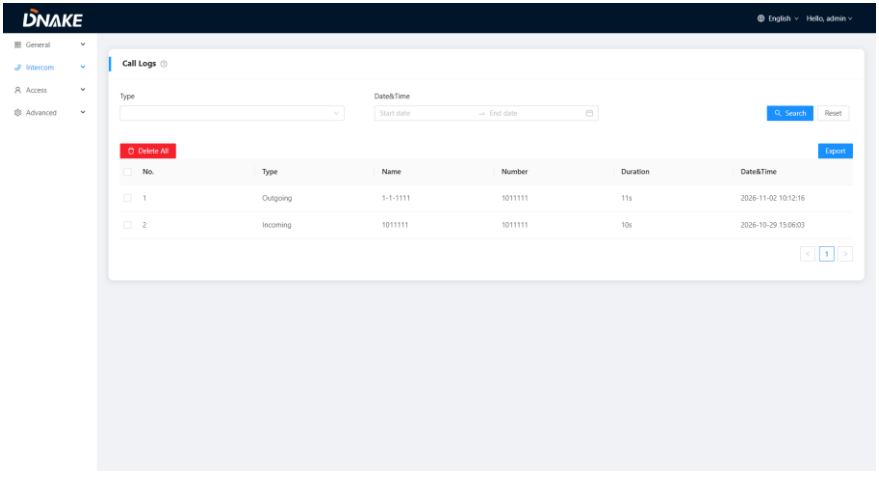


Category	Parameter	Description
Ring Group	Ring Group:	Configure the ring group function of the device. When the device calls the APT No., it will trigger the call to the number in the ring group. It can configure up to 1000 ring group numbers

Call Concierge	URL:	Fill in the call destination for concierge button or the single button on the device; ● IP call: Fill in sip:IP address, e.g., sip:192.168.68.90; ● SIP call: Fill in sip:sip account@SIP server address:port, e.g., sip:101@192.168.68.90:5060;
Hang Up After Unlock	Hang Up After Unlock	Configure whether the device automatically ends the call after unlocking.
	Timeout	Configure the time (second) when the device automatically ends the call after unlocking.
Settings	Dial Mode	Configure whether to call the SIP number again if the other party is not connected. Single: If the called party is not connected, hang up the call Repeat: If the called party is not connected, call again, repeat 10 times
	Ring Time:	The ring will be ended automatically after a period of time (10s, 20s, 35s, 45s, 60s, 90s, 120s)
	Call Time:	The call will be ended automatically after a period of time (120s, 300s, 600s, 1200s, 1800s);
	Video Active	It configures the video call feature for the device，If you disable, it will be make a audio call.

2.5. Intercom > Call Logs

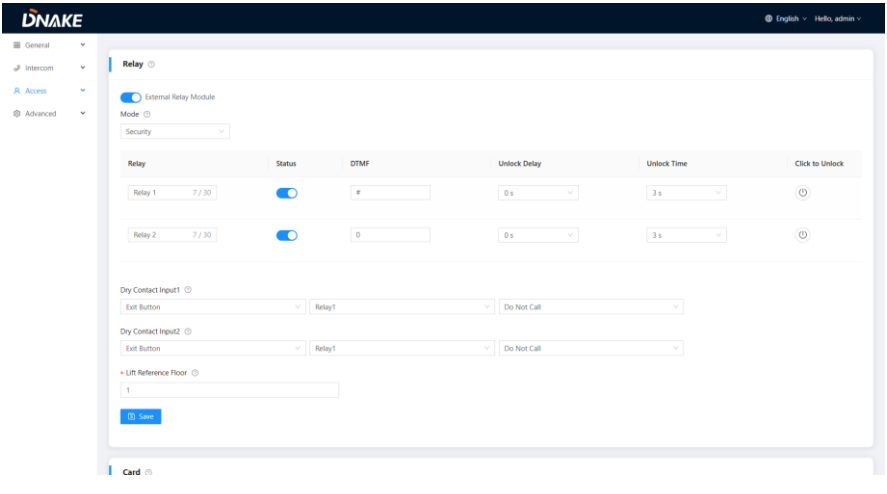
On this page, you can view all Call Logs stored on the device. You can filter the records by call type and time, or delete all call logs with a single tap.



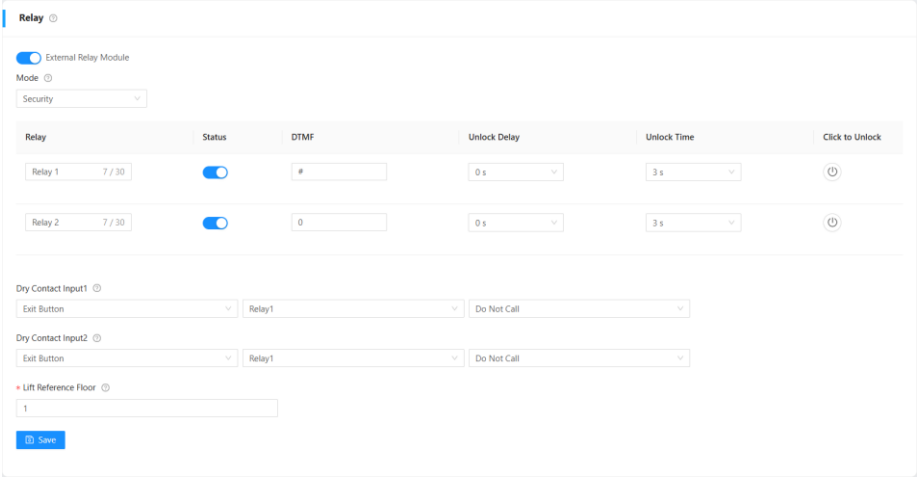
3. Access

3.1. Access > Access Control

Relays, access cards, and other access control settings can be configured here.



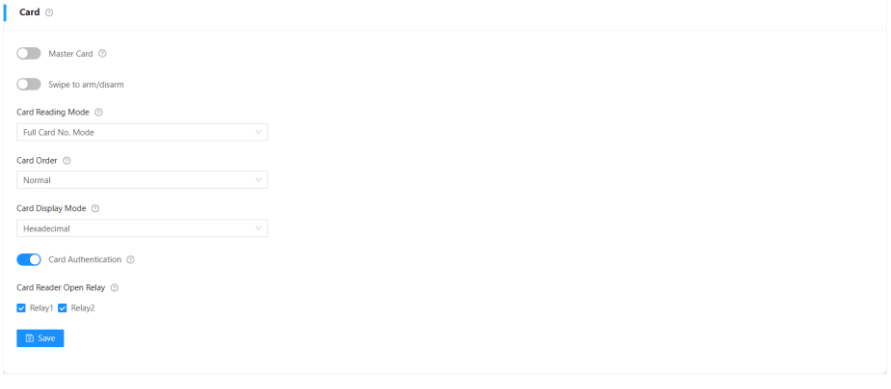
3.1.1. Access Control > Relay



Category	Parameter	Description
Relay	External Relay Module	Enable or disable the external unlock module.
		When disabled, the Mode configuration is hidden
		when enabled, the Mode configuration is displayed. The default setting is enabled.
	Mode	Select the mode for the unlock module connected via RS485: Security Mode or Extension Mode.
		Security: The External Relay Module and the device are controlled synchronously.
		Expand: Both the relay of the device and relay module can be controlled individually.
	Relay	Relays supported;
	Status	Enable or disable the corresponding relay.

	DTMF	Dual-tone multi-frequency signaling (Relay1: #, Relay2:0);
	Unlock Delay	The length of unlock delay time (0-9s);
	Unlock Time	The length of unlock time (1-9s);
	Mode	Configure the electronic lock operating mode. Pulse Mode (default) and Holding Mode are available.
	Dry Contact Input 1-2	Configure the trigger action after the Dry Contact Input signal.
	Lift Reference Floor	The floor Door Station is installed at (Range: -9-99);

3.1.2. Access Control > Card

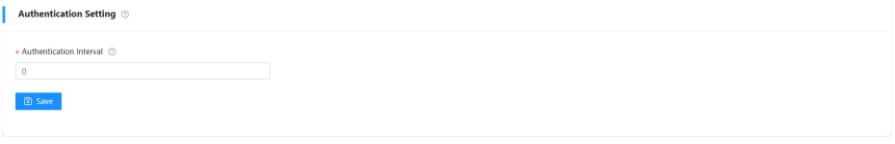


Category	Parameter	Description
Card	Master Card:	Click read to add Master card to manage cards;
	Swipe to Arm/Disarm	Enable to let security alarm (on and off) keep pace with registered cards (lock and unlock);

	Card Reading Mode	Configure the mode of the device to read the access card
		Compatible mode: The last 3 bytes of card would be read in Compatible Mode. MIFARE Card Encryption is unavailable in this mode.
		Full Card No. mode: In Full Card Mode, the card reading order and card display mode can be configured, and MIFARE Card Encryption can be enabled.
	Card Order	Configure the order in which the device reads all the card numbers in the access card. Normal Mode and Reversed Mode can be select.
	Card Display Mode	Configure the display style after the device reads all the card numbers in the access card, Hexadecimal and Decimal can be select.
	Card Reader Open Relay	Configure the relay unlock permissions for the card.

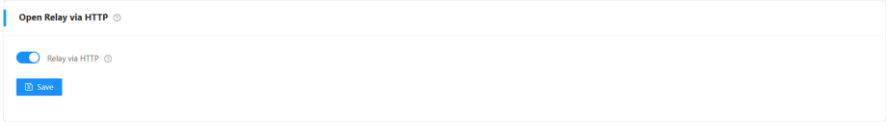
3.1.3. Access Control > Authentication Setting

Used to configure the access control authentication time interval, allowing each user to successfully unlock only once within the set time period.

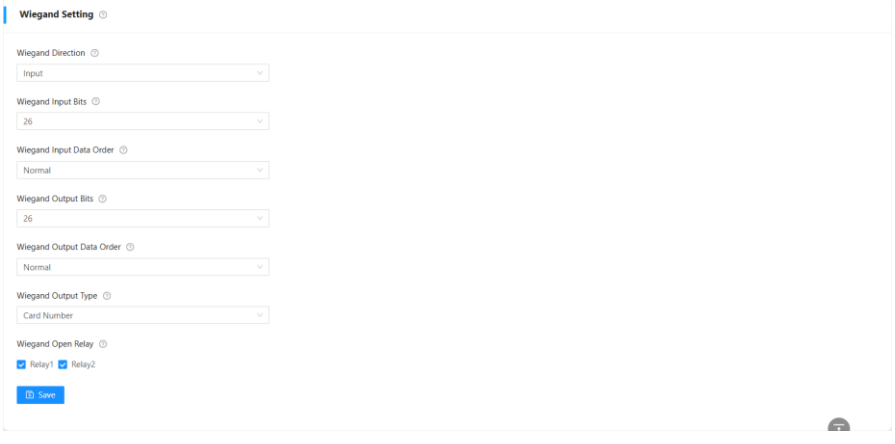


3.1.4. Access Control > Open Relay via HTTP

Configure whether third-party devices can use http to unlock. If enabled, third parties can use http commands to unlock.



3.1.5. Access Control > Wiegand Setting

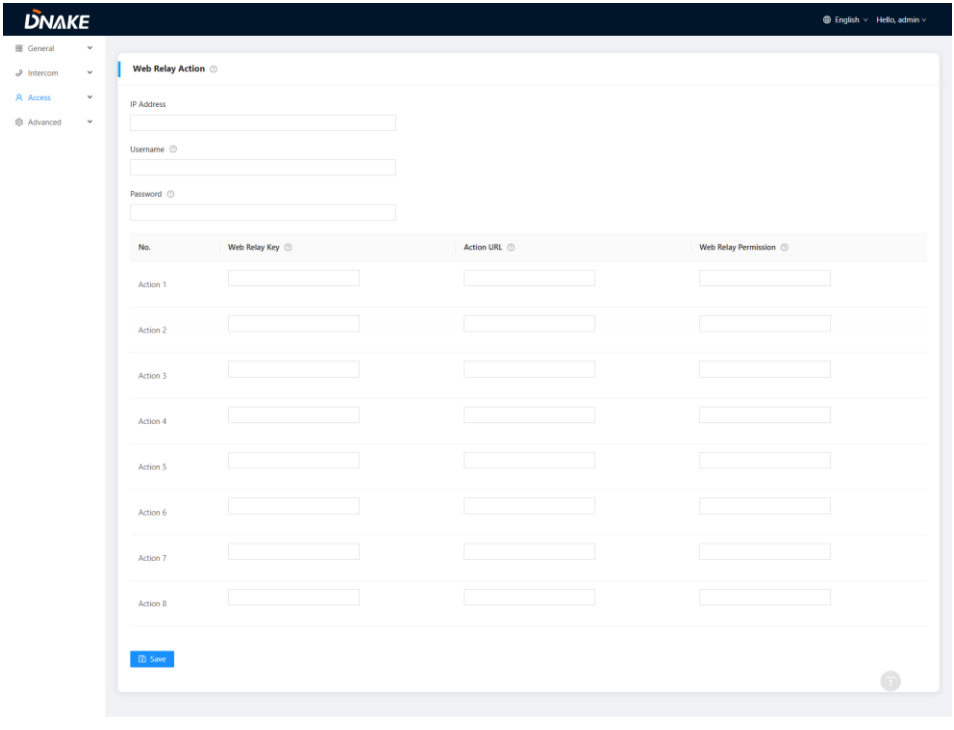


Category	Parameter	Description
Wiegand Settings	Wiegand Direction	Configure the input or output direction of the device's Wiegand port
	Wiegand Input Bits:	Configure the bits of the value obtained by the device's Wiegand port from an external card reader, 26/34/58 bits can be set;
	Wiegand Input Data Order:	Configure the input sequence of the data obtained by the door station from the external card reader;
	Wiegand Output Bits:	Configure the bits of the value sent by the device's Wiegand interface to the external device, 26/34/58 bits can be set;

	Wiegand Output Data Order	Configure the sequence of data that the door station sends to external devices
	Wiegand Output Type	Configure the data type of the Wiegand output.
	Wiegand Open Relay	Configure the relay that opens after the access card is read by external Wiegand

3.2. Access > Web Relay Action

Configure the parameters for triggering web relay

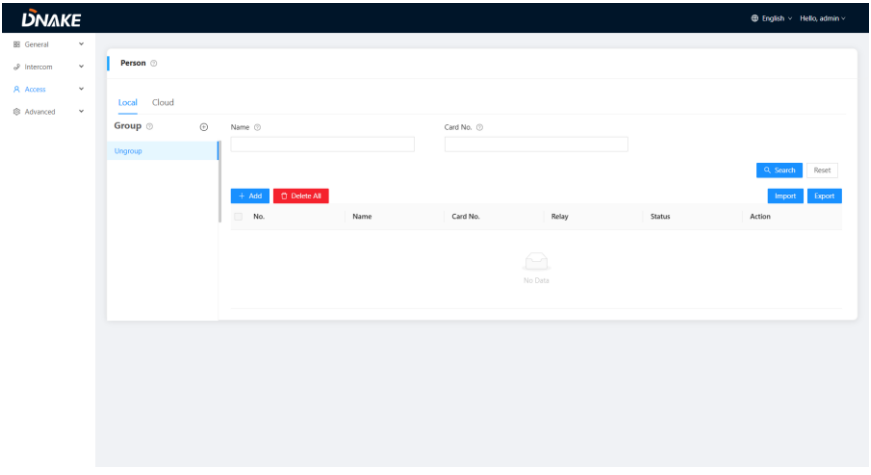


Category	Parameter	Description

Web Relay Action	IP Address:	The IP address of the web relay action;
	Username:	The username used by web relay for authentication
	Password:	The password used by web relay for authentication;
	Web Relay Key:	Configure the DTMF key that triggers the web relay action. When the device receives the DTMF value from the other end during a call, it can trigger the web relay to perform the configured action.;
	Action URL:	Configure the operation to be performed after receiving the web relay, usually an http command, for example, http://username:password@IP/state.xml?relayState=2
	Web Relay Permission	Configure the legal devices that are allowed to trigger the web relay. If it is empty, all terminals that talk to the device can trigger it. If the IP or SIP account of a specified device (xxx.xxx.xxx.xxx or xxx@xxx) is configured, can only be triggered by the specified device

3.3. Access > Person

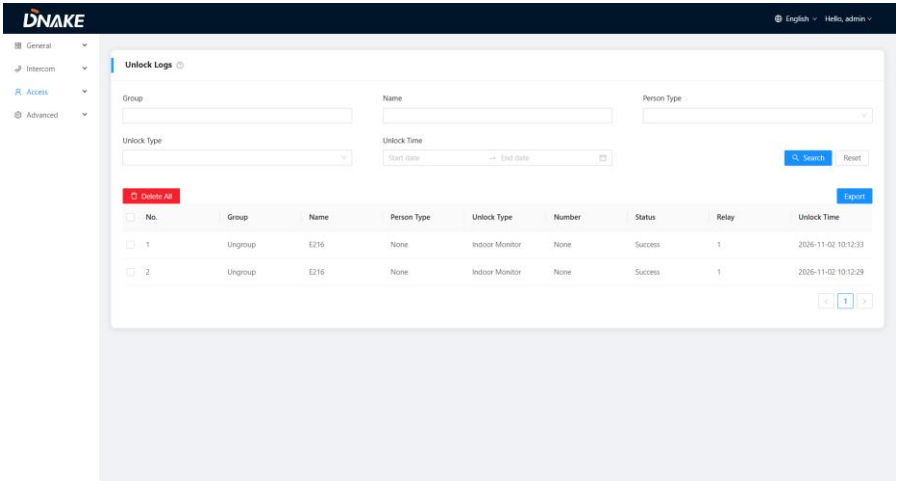
Person column is for access authorization. You can add users to the device and relate them with relays or cards.



Category	Parameter	Description
Person	Search:	Fill in text inputs to search;
	Reset:	Click reset to clear words in text inputs;
	Add:	Add users to Door Station;
	Delete All:	Delete all data on the chart;
	Export:	Export all data on the chart;

3.4. Access > Unlock Logs

View the unlock logs of the device



Category	Parameter	Description
Unlock Logs	Search:	Fill in text inputs to search;
	Reset:	Click reset to clear words in text inputs;
	Add:	Add users to Door Station;
	Delete All:	Delete all data on the chart;
	Export:	Export all data on the chart;

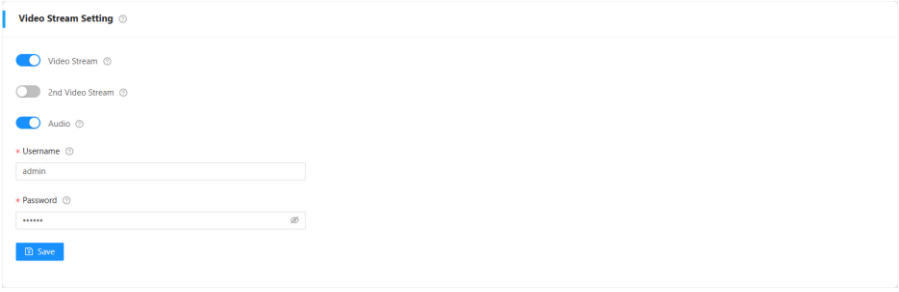
4. Advanced

4.1. Advanced > Video

Configure the device's Video and Video Stream settings.

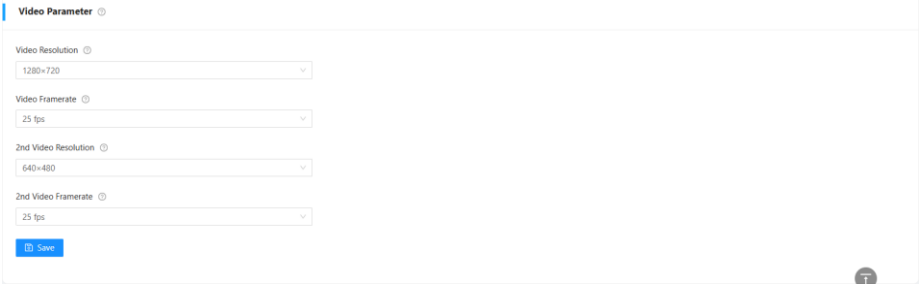
4.1.1. Video > Video Stream Setting

Configure the parameters when the device is used as a video surveillance



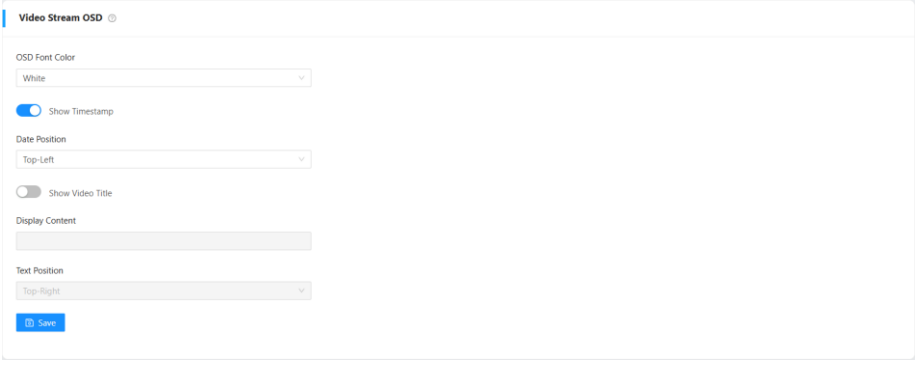
Category	Parameter	Description
Video Stream Setting	Video Stream	Enable or disable video surveillance feature;
	2nd Video Stream	Enable or disable device second video surveillance feature;
	Audio	Configure the device to determine whether to transmit audio when it is used as a video surveillance
	Username	configure the username for authentication when the device is used as video surveillance
	Password	Configure the password for authentication when the device is used as video surveillance

4.1.2. Video > Video Parameter



Category	Parameter	Description
Video Parameter	Video Resolution	Configure the resolution of the main video stream of the device.
	Video Framerate	Configure the frame rate of the main video stream of the device.
	2nd Video Resolution	Configure the resolution of the second video stream of the device.
	2nd Video Framerate	Configure the frame rate of the second video stream of the device.

4.1.3. Video > Video Stram OSD

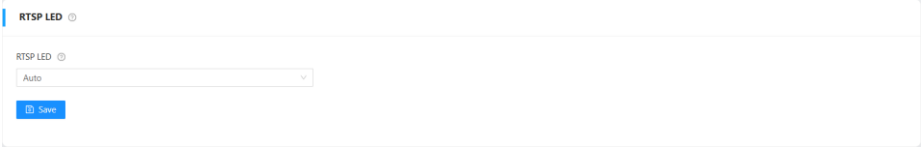


Category	Parameter	Description
Video Stream OSD	OSD Font Color	Configure the OSD Font Color by selecting either White or Black.
	Show Timestamp	Enable or disable the timestamp in the video OSD
	Date Position	Configure the position of the date in the video OSD
	Show Video Title	Enable or disable the video title of the video OSD
	Display Content	Enter the content showing in the video OSD

	Text Position	Configure the position of the text content in the video OSD

4.1.4. Video > RTSP LED

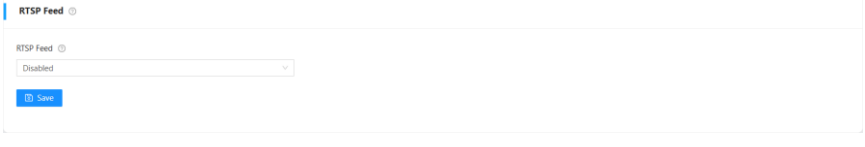
Configure the LED settings when the device is used as a video surveillance device.



Category	Parameter	Description
RTSP LED	Auto	Turns on and off according to changes in ambient light
	Always Off	The LED is always off

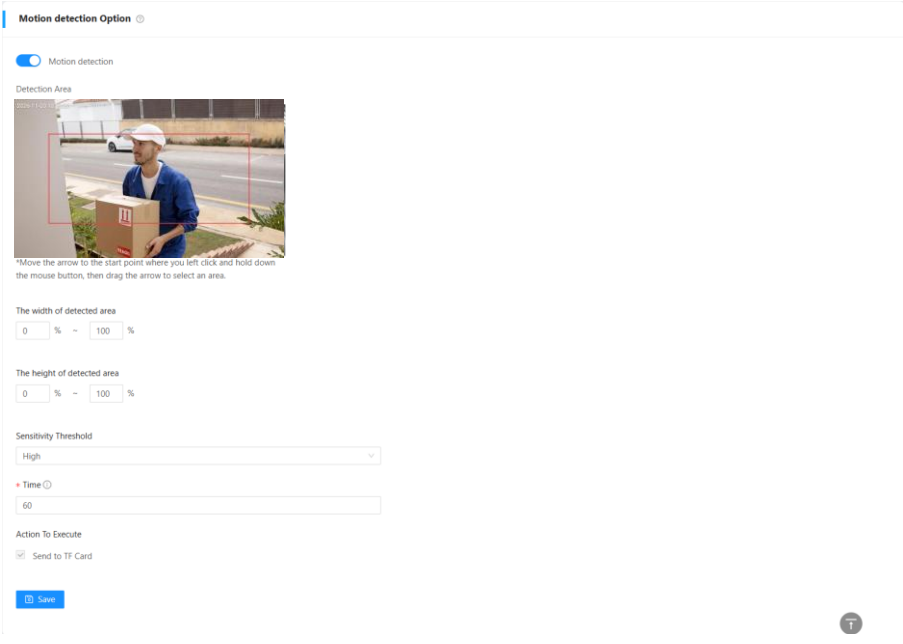
4.1.5. Video > RTSP Feed

Configure the device's RTSP Feed settings. If configured, you need to fill in the URL



4.1.6. Video > Motion Detection Option

Configure smart motion detection. When movement is detected in the monitored area, it can automatically trigger snapshot capture or alert notifications.

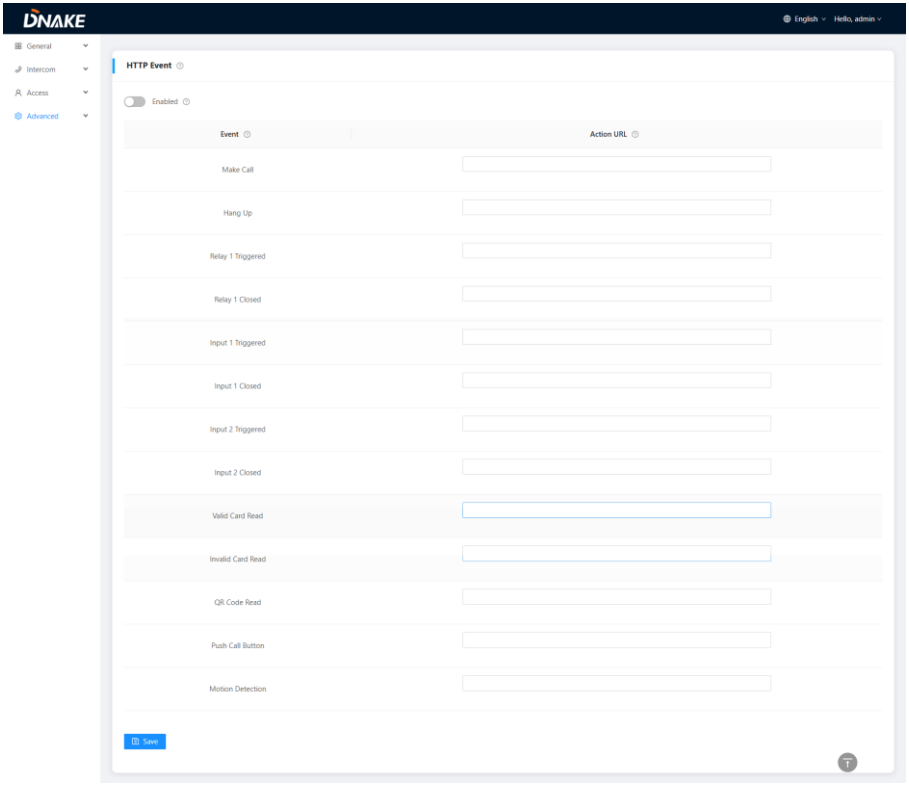


Category	Parameter	Description
Motion Detection Option	Motion Detection	Enable or disable Motion Detection function
	Detection Area	Select the motion detection area by clicking and dragging the left mouse button across the video image. Once configured, motion is detected only within the selected area. Alternatively, enter the width and height values below to define the motion detection area.
	The Width of Detection Area	Enter the width value (%) to define the width of the detection area.
	The Height of Detection Area	Enter the height value (%) to define the height of the detection area.
	Sensitivity Threshold	Sets the sensitivity level of motion detection. Select High for more

		sensitive motion detection or Medium for moderate sensitivity.
	Time	Sets the motion detection reporting interval, ranging from 10 to 300 seconds. The default value is 60 seconds. After the first motion detection event is reported, no further events are reported within the configured interval. Only integer values are supported.
	Action to Execute	Select this option to save captured images to the TF card inserted in the device.

4.2. Advanced > HTTP Event

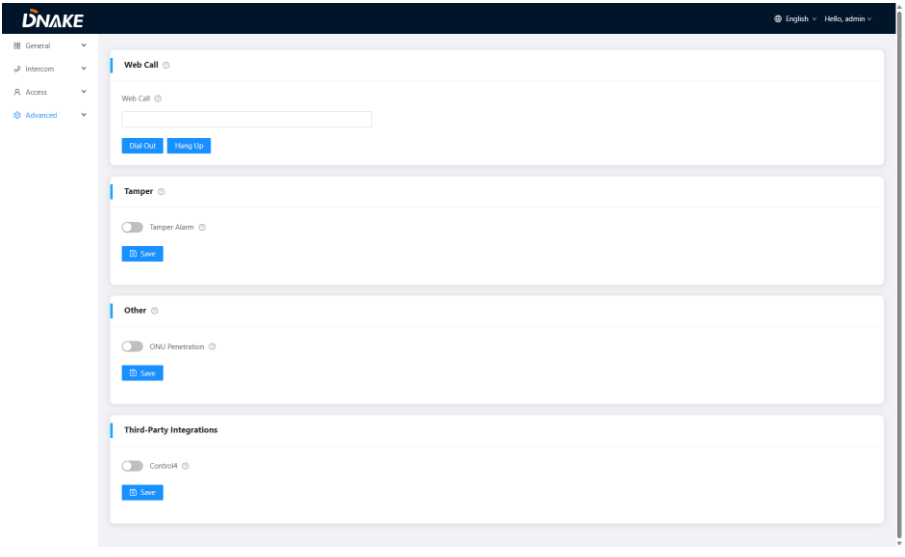
Configure the actions triggered by the user when operating the device



Category	Parameter	Description
HTTP Event	HTTP Event	Enable or disable HTTP Event feature
	Event:	Display operations that support triggering actions;
	Action URL:	configure the triggered action, usually an http command, for example, http://username:password@IP/state.xml?action=unlock;

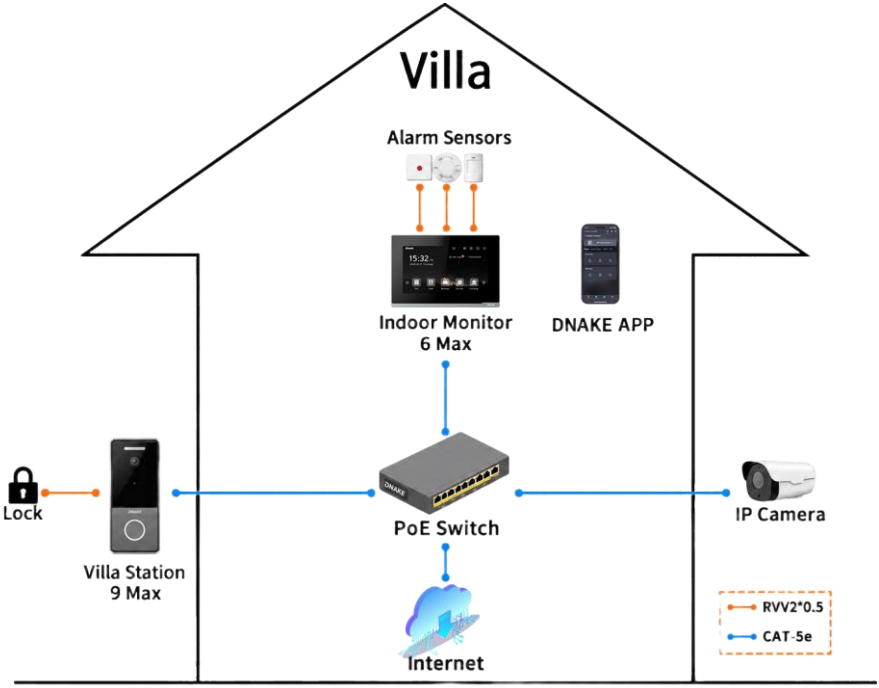
4.3. Advanced > More

More column is for Tamper Alarm and ONU Penetration.

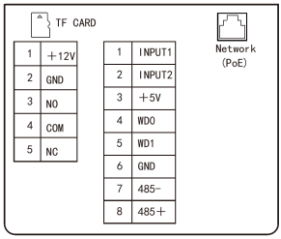


Category	Parameter	Description
Web Call	Web Call	Initiate a door station call from the web. This function is primarily intended for testing purposes.
Tamper	Tamper Alarm:	Enable to use Tamper alarm;
Other	ONU Penetration:	Enable to prevent ONU from banning multicast;
Third-Party Integrations	Control4	Configure the connection to Control4 for intercom calls, remote door unlock and live audio monitoring.

SYSTEM DIAGRAM

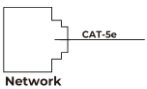


DEVICE WIRING



1. Network (PoE) / RJ45 (Non-Standard PoE)

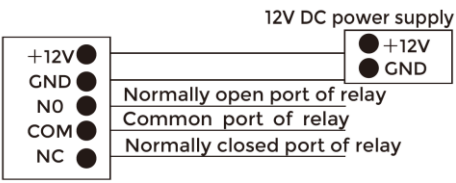
Standard RJ45 interface is for the connection with PoE switch or other network switch. PSE shall comply with IEEE 802.3af (PoE) and its output power not less than 15.4W and its output voltage not be less than 50V. RJ45 can be selected as non-standard PoE, which can be directly connected to the non-standard PoE network port of the indoor monitor.



2. Power/Switching Value Output

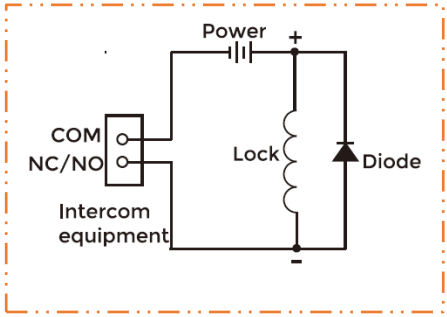
The power interface of Door Station connects to 12V DC power.

Connect to the lock module (an independent power supply is necessary for the lock).



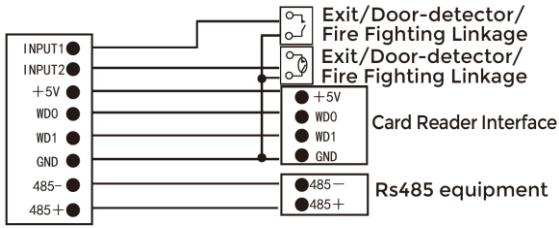
⚠ Warning!

1. When connecting to an inductive load device such as a relay or electromagnetic lock, you are recommended to use a diode 1A/400V (included in the accessories) in anti-parallel with the load device to absorb inductive load voltage peaks. The intercom will be better protected in this way.
2. The load current of the relay cannot be greater than 2A. See attached picture for more details.



3. Custom Input Configuration Interface/Wiegand/RS485

- The input interface can be configured with various functions, such as the exit button,door status sensor,and fire linkage interface.
- The interface can be connected to one IC/ID card reader or be used for reading the information of built-in card reader.Card swiping device connected to Weigand interface.
- +5V can power the Wiegand card swiping device,note that the current must not exceed100mA.
- Enable to connect equipment with RS485 interface.Connect to the lock module(independent power supply is necessary for the lock).

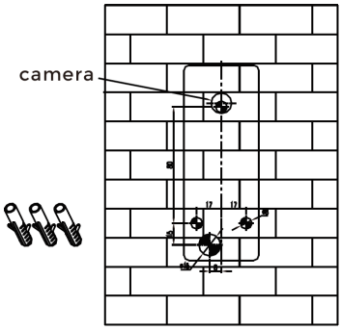


INPUT/Weigand/RS485

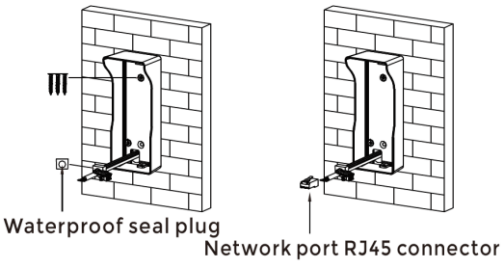
Note: Door Station can only be connected to one card reader or management device at a time.

INSTALLATION

Installation of Rain Hood

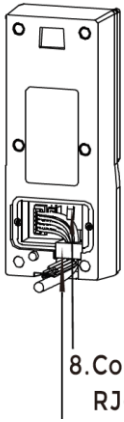


1. Choose the suitable height of camera, and put the label sticker on the wall.
2. According to the sticker, drill three 8 x 45mm for screws and one 5mm for wire outlet.
3. Insert 3 screw fixing seats into the screw holes.
4. Remove the sticker after drilling.



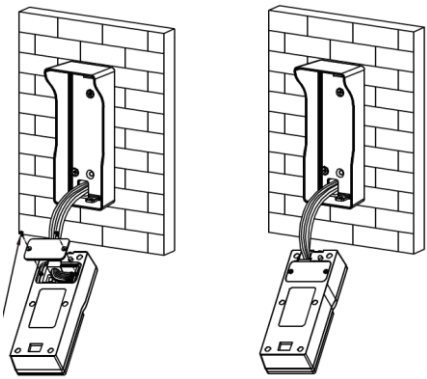
5. Lock the rain hood or rear cover with 3 screws.
6. Let wires(included) and network cable without RJ-45 plug go through rain hood and waterproof seal plug.

7. Connect RJ-45 Plug.

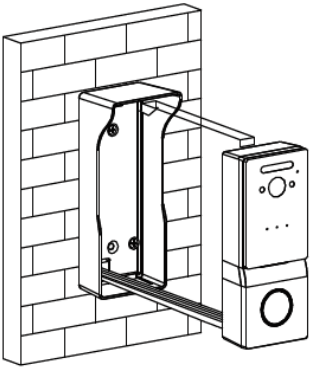


8.Connect wires and
RJ-45 to the device.

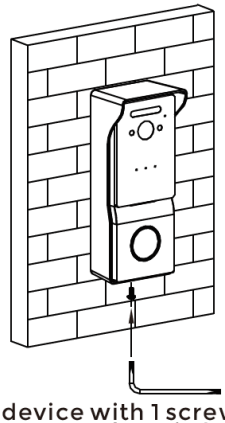
9. Plug waterproof seal plug into the cover groove at the bottom.



10. Fix interface clamp to the device with 2 screws.



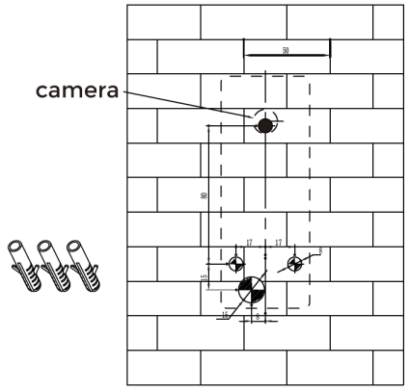
11. Hang up device with rain hood.



Lock the device with 1 screw
(different screws for rain hood and bracket).

12. Use wrench to lock the bottom of the device with 1 screw (different screws for rain hood and rear cover).

Installation of Rear Cover

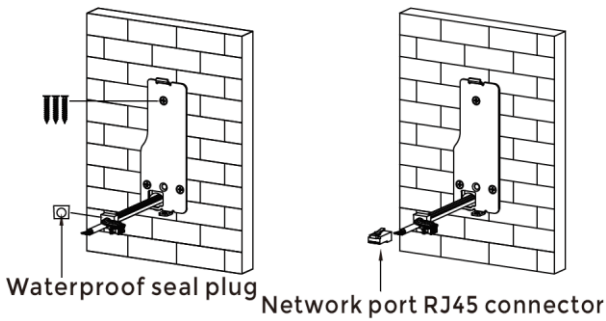


1. Choose the suitable height of camera, and put the label sticker on the wall.

2. According to the sticker, drill three 8 x 45mm for screws and one 5mm for wire outlet.

3. Insert 3 screw fixing seats into the screw holes.

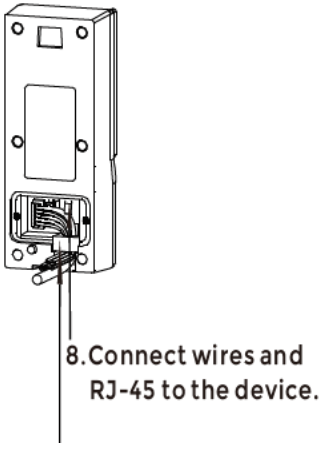
4. Remove the sticker after drilling.



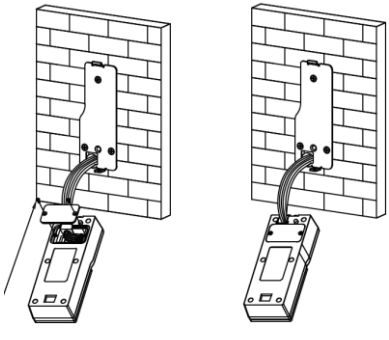
5. Lock the rain hood or rear cover with 3 screws.

6. Let wires(included) and network cable without RJ-45 plug go through rear cover and waterproof seal plug.

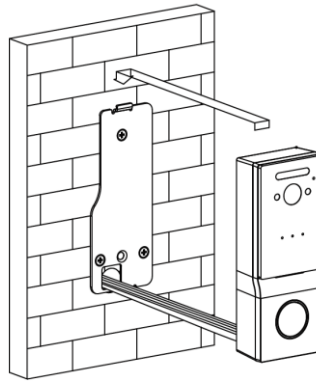
7. Connect RJ-45 Plug.



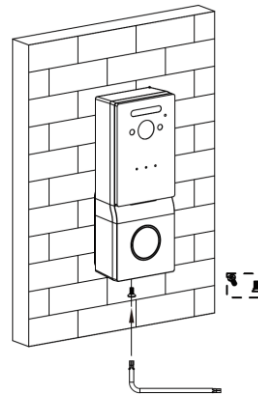
9. Plug waterproof seal plug into the cover groove at the bottom.



10. Fix interface clamp to the device with 2 screws.

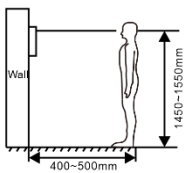


11. Hang up device with rear cover.



12. Use wrench to lock the bottom of the device with 1 screw (different screws for rain hood and rear cover).

Tips:



The camera should be 1450~1550mm above the ground.

The camera at this height can capture human face perfectly.

TROUBLESHOOTING

The Indoor Monitor cannot start up or power off automatically.

- Check whether it has power-failure, and power it on again

The Indoor Monitor display screen is too dim.

- Check whether the brightness and contrast settings of screen are correct.

No sound during the communication.

- Check whether the Indoor Monitor is set as mute mode, or the volume is set to the lowest.

The Indoor Monitor cannot monitor the Door Station.

- Other user is using the system, so you can use it once he/she finished the operation.

Multimedia files cannot be played normally.

- Check whether the system supports the file format. Please refer to the multimedia setting for details.

No response when clicking Indoor Monitor display screen.

- Press "Unlock" button for 5s, or slowly slide horizontally or vertically on the LCD to make touchscreen calibration. It needs to be calibrated.

Touchscreen responses slowly or cannot make calibration.

- Take down any protective paster, since it may affect identification
- and input for device;
- Ensure the finger is dry and clean when clicking touchscreen;
- Restart the device to clear any temporary software error.

The temperature of device is too high.

- Long-term use leads to high temperature. It's normal and will not affect the device's use life and performance.

SAFETY INSTRUCTION

In order to protect you and others from harm or your device from damage, please read the following information before using the device.

- Do not install the device in the following places:
- Do not install the device in high-temperature and moist environment or the area close to magnetic field, such as the electric generator, transformer or magnet.
- Do not place the device near the heating products such as electric heater or the fluid container.
- Do not place the device in the sun or near the heat source, which might cause discoloration or deformation of the device.
- Do not install the device in an unstable position to avoid the property losses or personal injury caused by the falling of device.

Guard against electric shock, fire and explosion:

- Do not use damaged power cord, plug or loose outlet.
- Do not touch the power cord with wet hand or unplug the power cord by pulling.
- Do not bend or damage the power cord.
- Do not touch the device with wet hand.
- Do not make the power supply slip or cause the impact.
- Do not use the power supply without the manufacturer's approval.
- Do not have the liquids such as water go into the device.

Clean Device Surface

- Clean the device surfaces with soft cloth dipped in some water, and then rub the surface with dry cloth.

Other Tips

- In order to prevent damage to the paint layer or the case, please do not expose the device to chemical products, such as the diluent, gasoline, alcohol, insect-resist agents, opacifying agent and insecticide.
- Do not knock on the device with hard objects.
- Do not press the screen surface. Overexertion might cause flopover or damage to the device.
- Please be careful when standing up from the area under the device.
- Do not disassemble, repair or modify the device at your own discretion.

- The arbitrary modification is not covered under warranty. When any repair required, please contact the customer service center.
- If there is abnormal sound, smell or fume in the device, please unplug the power cord immediately and contact the customer service center.
- When the device isn't used for a long time, the adaptor and memory card can be removed and placed in dry environment.
- When moving, please hand over the manual to new tenant for proper usage of the device.

V3.3

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