User Manual

DNAKE IPK05

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.

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PRODUCT FEATURE

1. Plug & Play
2. Motion detection
3. Standard POE
4. One-touch calling
5. Remote unlocking
6. CCTV integration
7. 2MP HD digital WDR camera

TECHNICAL PARAMETER

Indoor Monitor E217W

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

Standby Power: 1.5 W

Rated Power: 9 W

Display: 7-inch TFT LCD

Screen: Capacitive touchscreen

Resolution: 1024 x 600

Working Temperature: -10℃ to +55℃

Storage Temperature: -40℃ to +70℃

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

Villa station C112A

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

Standby Power: 1.5 W

Rated Power: 3 W

Video Resolution: 1920 x 1080

Working Temperature: -10℃ to +55℃

Storage Temperature: -40℃ to +70℃

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

PACKAGE CONTENT

MODEL: IPK05

E217W

Wiring Cover

PM4×20 (2 pcs)

Diode (3 pcs)

C112A

Screw Fixing Seat (3 pcs)

Rear Cover

PA4×25 (3 pcs)

Rain Hood

Sealing Plug of Wiring Port

Junction Pressing

PM2×6 (2 pcs)

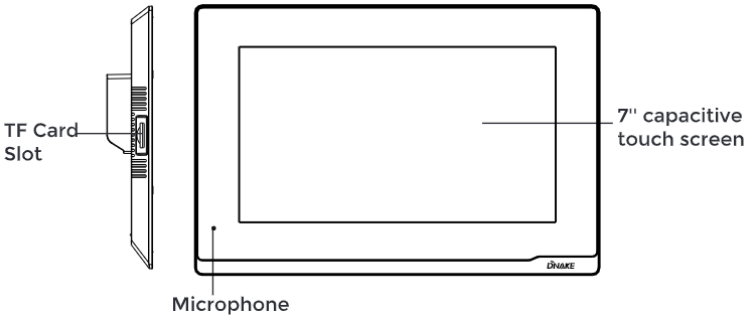
FM3×6 (1 pcs)

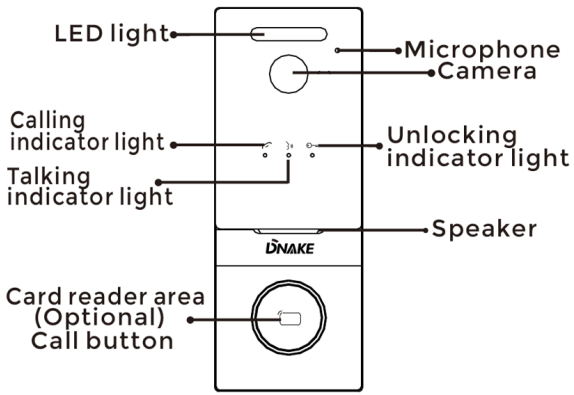
FM3×6 (1 pcs)

Wrench Screw (T10)

User Manual

OVERVIEW





Note:

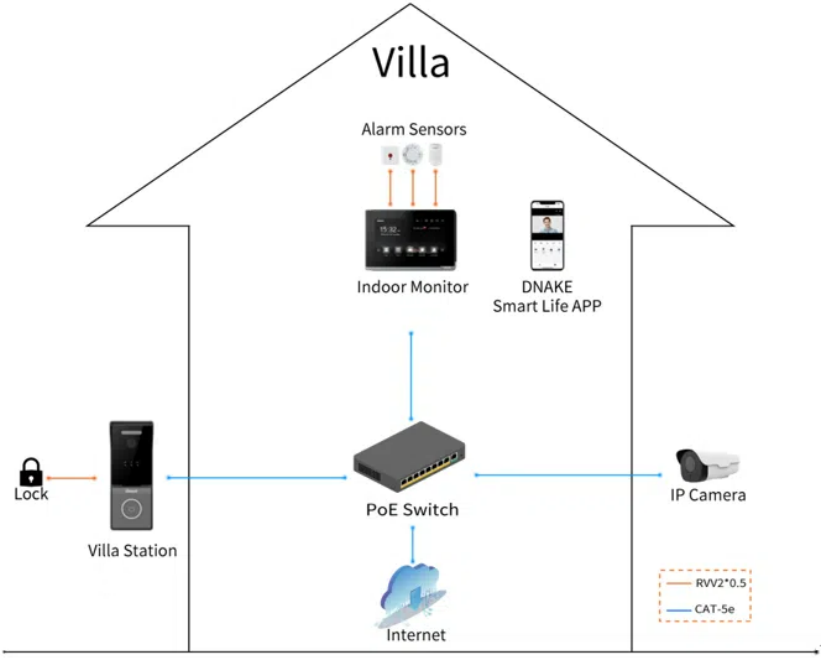
Calling indicator light: The 1st indicator light will activate if the call button is pressed.

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

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

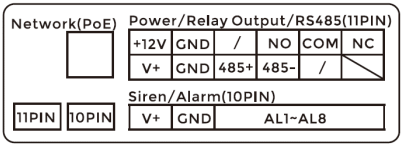
Relay Outputs: Supports 1 relay outputs.

SYSTEM DIAGRAM



DEVICE WIRING

E217W

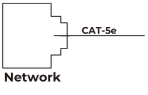


Single Port

1. Network (PoE)

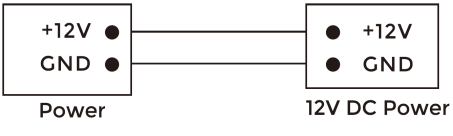
Standard RJ45 interface is for the connection with PoE switch or other network switch.

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.

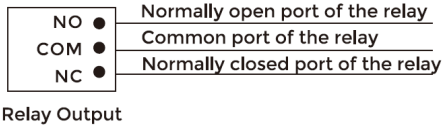


2. Power

The power interface of Indoor Monitor connects to 12V DC power.

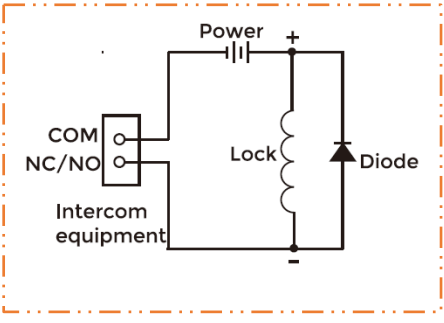


3. Relay Output



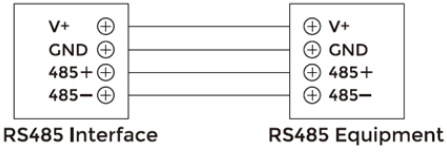
⚠ Warning!

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.



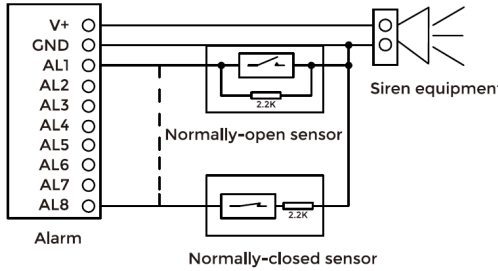
4. RS485

Enable to connect equipment with RS485 interface. RS485 interface can output 12V/100mA power supply. If RS485 equipment to be connected doesn't require the power supply, there is no need to connect to +12V.

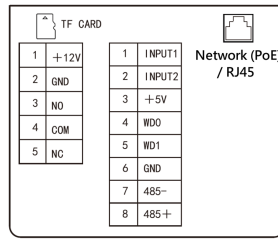


5. Siren/Alarm

Interface of alarm zones connects with normally-open or normally-closed switch. When the alarm zone is triggered, it will output 12V/100mA power.



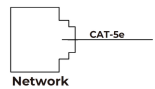
C112A



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

Standard RJ45 interface is for the connection with PoE switch or other network switch.

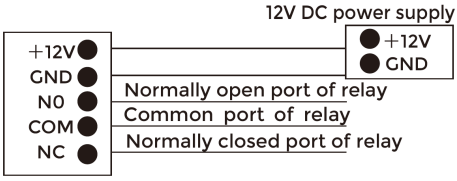
PSE shall comply with IEEE 802.3af (PoE) and its output power not less than 15.4W and its output voltage not be less than 50V.



2. Power/Switching Value Output

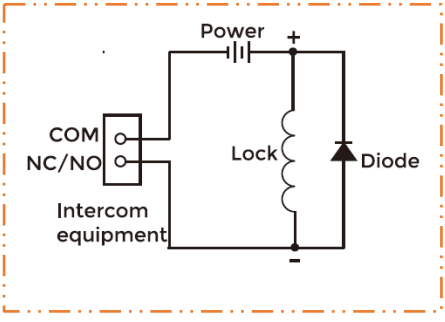
The power interface of Villa station connects to 12V DC power.

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



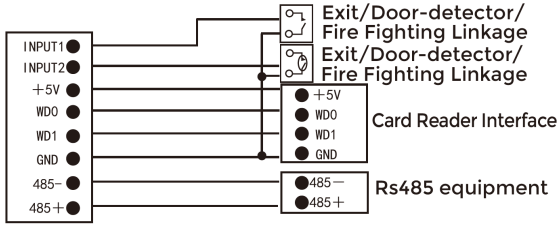
⚠ Warning!

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).

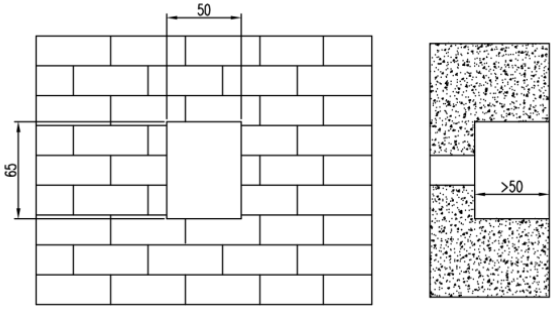


INPUT/Weigand/RS485

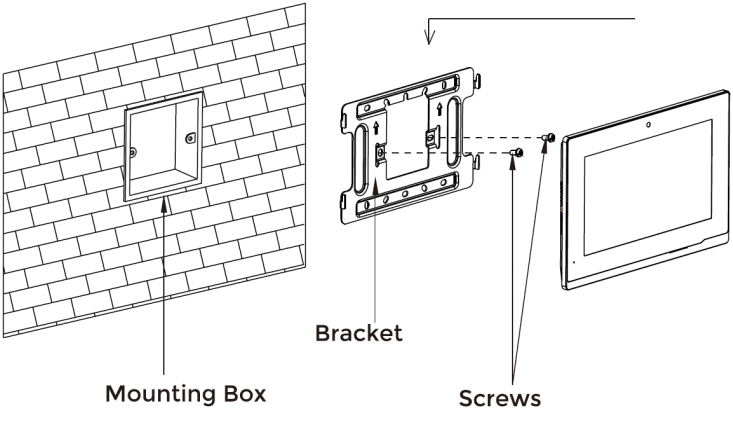
Note: Villa station can only be connected to one card reader or management device at a time.

INSTALLATION

Cut-out Dimension for Surface Mounting Box(Unit: mm)

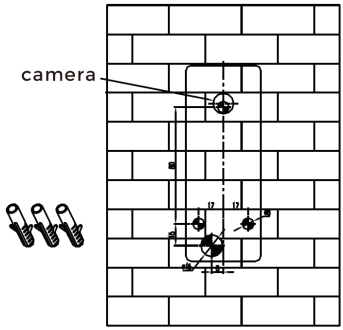


Monitor Surface Mounting:

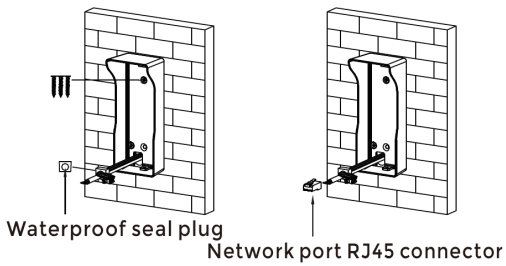


Product size: 195 × 130 × 14.5 mm

Installation of Rain Hood

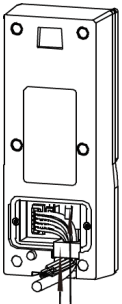


1. Choose the suitable height of camera, and put the label sticker on the wall.
2. According to the sticker, drill three 8 x 45mm for screws and one 5mm for wire outlet.
3. Insert 3 screw fixing seats into the screw holes.
4. Remove the sticker after drilling.



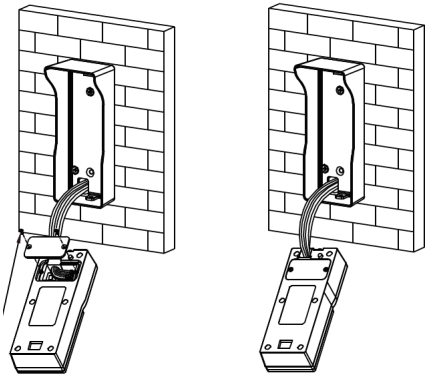
5. Lock the rain hood or rear cover with 3 screws.
6. Let wires(included) and network cable without RJ-45 plug go through rain hood and waterproof seal plug.

7. Connect RJ-45 Plug.

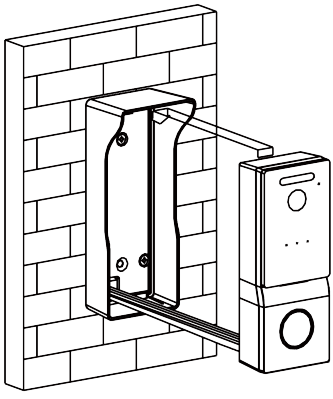


8.Connect wires and
RJ-45 to the device.

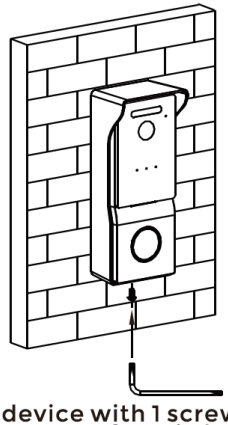
9. Plug waterproof seal plug into the cover groove at the bottom.



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



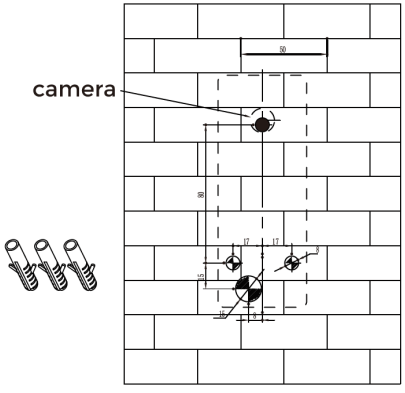
11. Hang up device with rain hood.



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

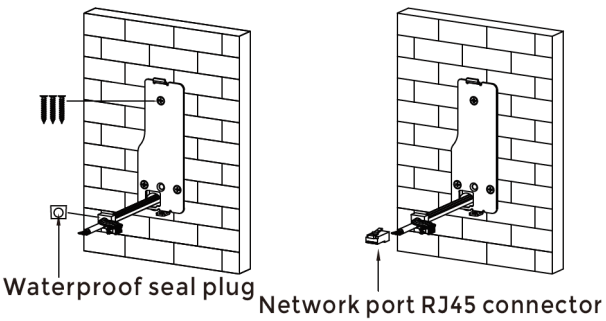


1. Choose the suitable height of camera, and put the label sticker on the wall.

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.

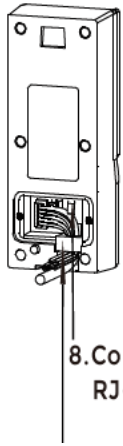
4. Remove the sticker after drilling.



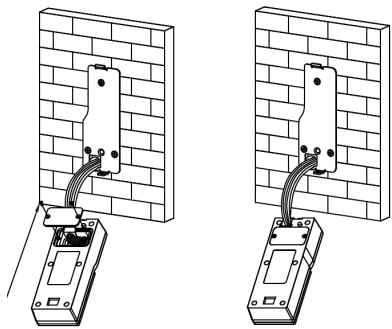
5. Lock the rain hood or rear cover with 3 screws.

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

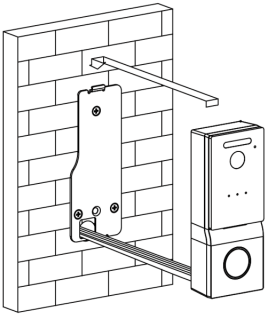
7. Connect RJ-45 Plug.



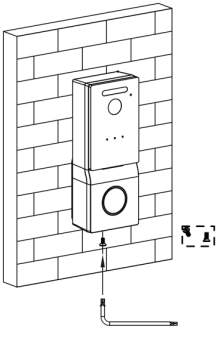
9. Plug waterproof seal plug into the cover groove at the bottom.



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

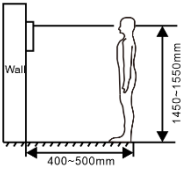


11. Hang up device with rear cover.



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

Tips:



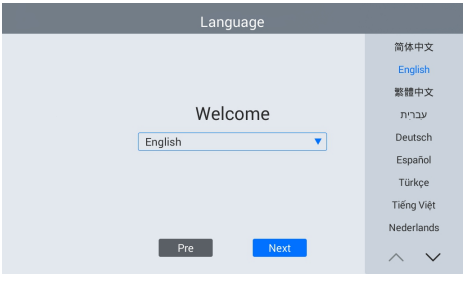
The camera should be 1450~1550mm above the ground. The camera at this height can capture human face perfectly.

BASIC OPERATION

1. Onboarding

1.1. Language

Language is the first setting. We have 16 kinds of languages (Chinese Simplified, Chinese Traditional, English, Spanish, German, Polish, Russian, Turkish, Hebrew, Arabic, Portuguese, French, Italian, Slovak, Vietnamese, and Dutch) for customers to choose from. Click Next to move on.



1.2. Indoor Monitor Settings

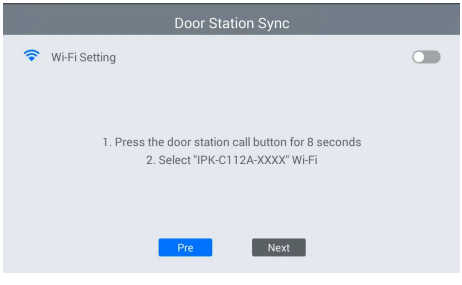
1. Is it your first Indoor Monitor?

If yes, this Indoor Monitor will be regarded as the main one. If not, your first Indoor Monitor will be the main one while this one will be the subordinate one.

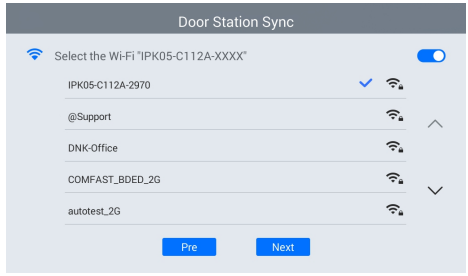
1.3. Villa station Sync

1. Turn on Villa station AP mode.

Please press and hold the Villa station’s call button for 8s to turn on the AP mode of the villa station. On the indoor monitor, users should turn on the Wi-Fi function and scan the list of available networks to locate the door station's AP hotspot.



2. Enable and select the Wi-Fi “IPK05-C112A-XXXX”,locate the door station's AP hotspot and connect to it.



3. Enter the name of villa station. Click “Next” to Wi-Fi setting.

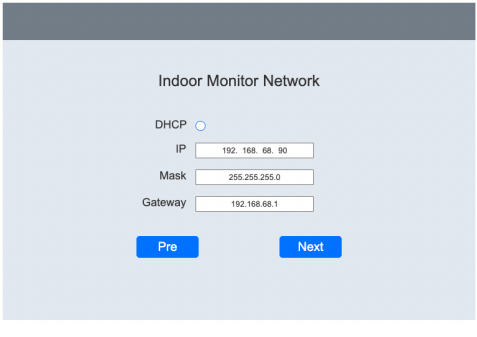
1.4. Wi-Fi Setting

Configure Wi-Fi information and sync to the villa station.

1.5. Wired network configuration

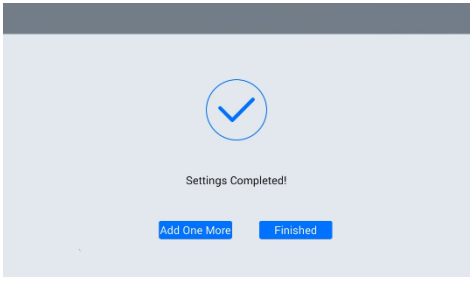
On this page, users can click "**Skip**" to configure the indoor unit's wired network settings, including the option to enable or disable DHCP.

- Note: Users can choose either a wired network or a wireless network, but not both simultaneously.



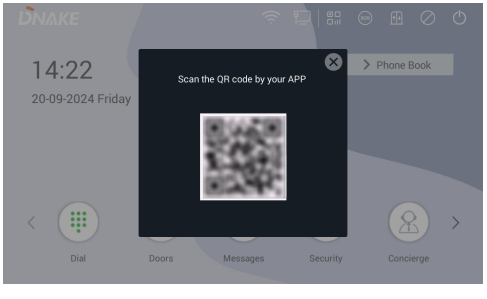
1.6. Settings Completed

It's coming to an end here. All the basic settings are done.



1.7. Scan with DNAKE Smart Life APP

Click the QR Code icon on the upper left corner. Download DNAKE Smart Life APP and Scan QR code. User should register an account and log in with email address. Please refer to **6. Add Villa station to Resident's Phone** for more details of Smart Life app.

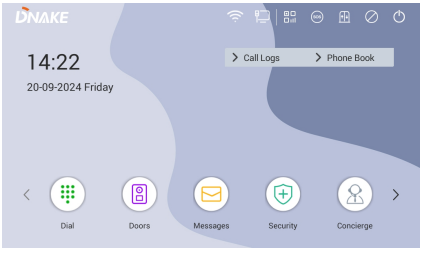


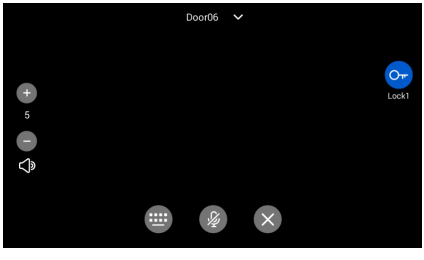
2. Call Indoor Monitor by Villa station

1. Press the Button on Villa station to make this call. You can answer, reject, open the door, or speak with the visitor.

3. Monitor Villa station on Indoor Monitor

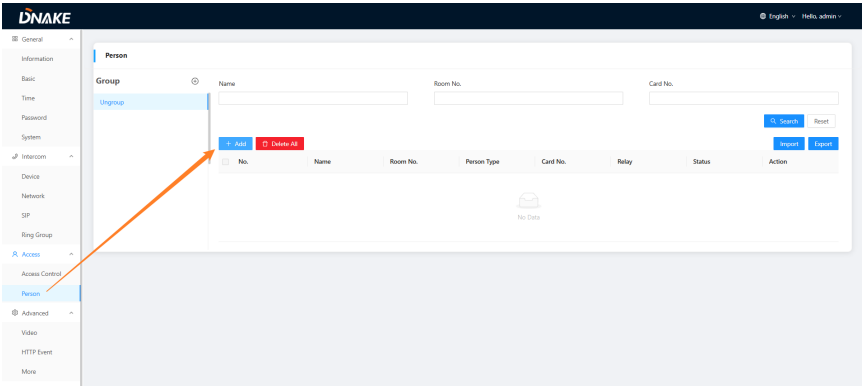
1. Press Doors on Indoor Monitor to monitor Villa station. If you have two Villa stations connecting to Indoor Monitor, you need to switch devices above.



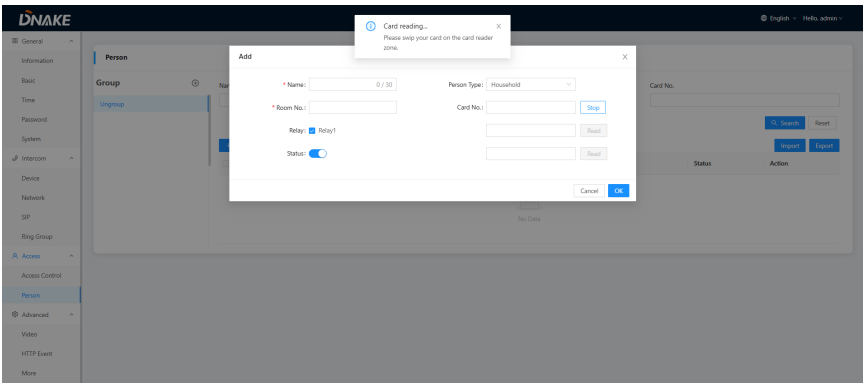


4. Add Cards

1. Enter default IP 192.168.68.89 to browse villa station's webpage and go to person page.



2. Click Add to add cards. After clicking the Read icon, tap the card on villa station to read. Remember to save the settings.



5. IP Camera Monitoring

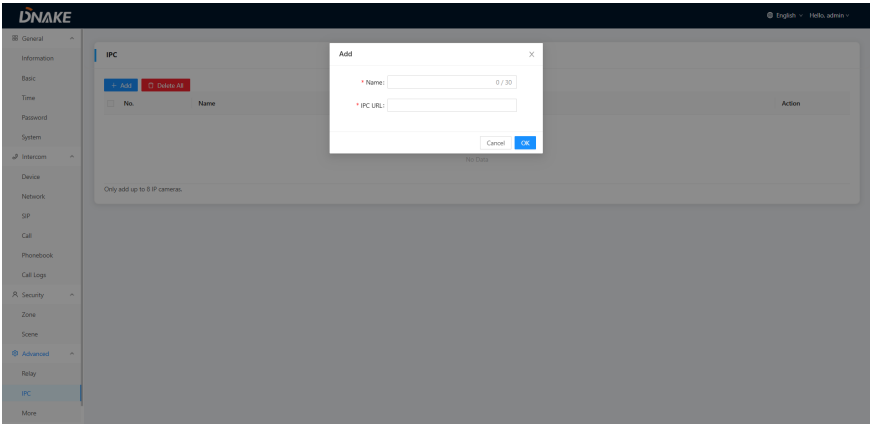
5.1. Add IP camera on device

1. Connect the Ethernet cable to both IP Camera and Indoor Monitor. Please keep them under the same LAN.

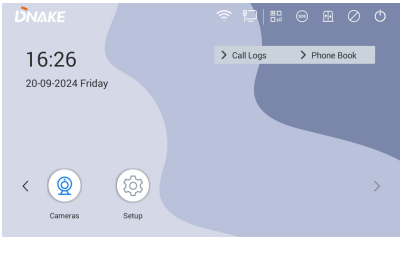
5.2. Add IP camera on web

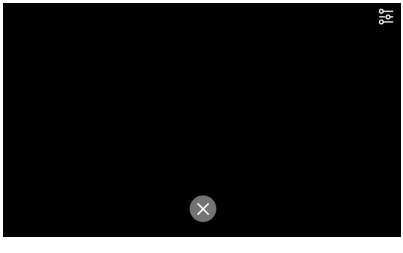
2. Add IP Camera to the Indoor Monitor on the website:

1. Enter default IP 192.168.68.90 to browse indoor monitor's webpage and go to IPC page to fill in RTSP of IP camera. Please get your IPC RTSP stream URL from IPC manufacturer.



3. Go to 2nd home page of Indoor Monitor. Click Cameras to monitor IP cameras.





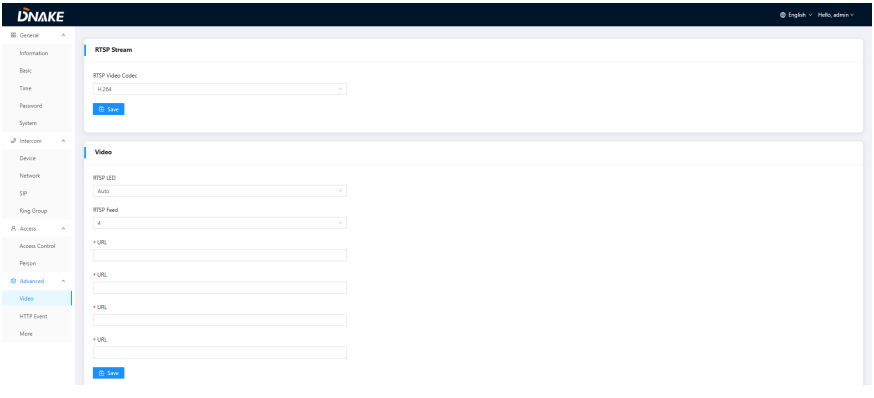
5.3. Switch the video between Villa station and IP camera

1. Connect the Ethernet cable to IP Camera, Villa station, and Indoor Monitor. Please keep them under the same LAN.

2. Add IP Camera to Villa station on the website:

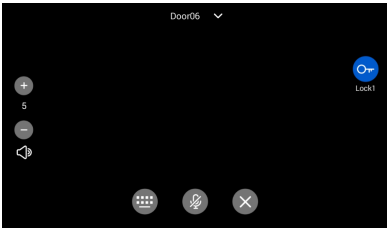
Step 1: You can double click IP address of the Villa station on the page of Remote Upgrade to open the website. You can also put Villa station's IP address in the browser's search bar to log in its webpage with account: admin and password:123456

Step 2: Go to Advanced > Video to select RTSP Feed and type in URL. URL contains account, password, and IP address. Make sure URL of the IP Camera is right. Do not forget to Save.



3. Switch the video between Villa station and IP camera.

Step 1: Call Indoor Monitor by Villa station and answer the call on Indoor Monitor.



Step 2: Click the little Keyboard icon.

Step 3: You can switch the video between Villa station and IP camera by clicking number 1 and number 2 on the keyboard of the Monitoring screen you have just unfolded. You can open the door by pressing * and #.

Step 4: Click the little Keyboard icon to fold the keyboard panel so that you can see the whole monitoring screen.

6. Add Villa station to Resident's Phone

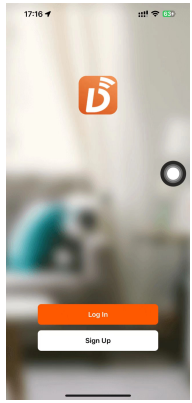
6.1. Download Smart Life app

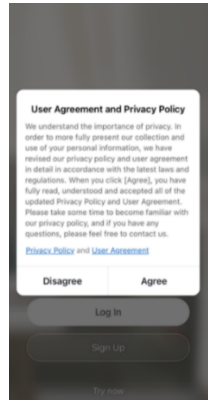
Resident can also download the Smart Life app by searching for Smart Life in app store, Google Play Store or by scanning the following QR code.

Smart Life App

6.2. Register, log in

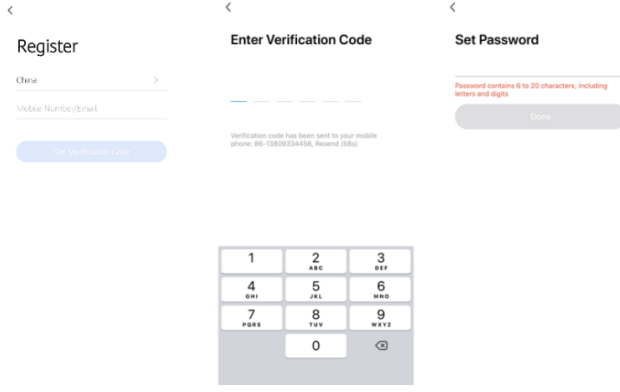
1. Open the Smart Life app and tap Sign Up. In the User Agreement and Privacy Policy dialog box, carefully read the privacy policy and agreement and tap Agree to go to the account registration page.





2. Enter resident's email address and tap Get Verification Code. The country or region on the registration page is the same as that resident set in the mobile phone. Resident can also manually change the country or region before registration.

3. On the Enter Verification Code page, enter the verification code. On the Set Password page, set the password as per instructions and tap Done.



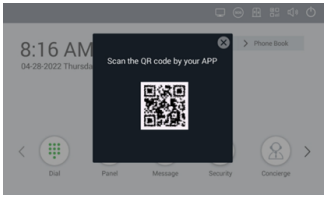
6.3. Scan QR code

1. License of Smart Life app will be filled in Indoor Monitor before delivery.

Step 1: Go to home page of Indoor Monitor.

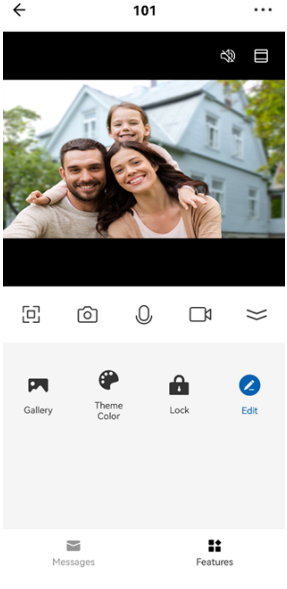
Step 2: Click QR code in the upper right corner.

Step 3: Scan QR code. One QR code can only be bound to one phone but resident can share resident's authority to its family members up to 20 users.



2. Congratulations. Villa station is successfully connected to resident's phone.

3. After resident complete the above steps, the Smart Life app will



Switch to full screen

Take a screenshot

Record a video

Expand more

Messages

Features (Gallery, Theme Color, Lock, Edit)

Gallery

Theme Color (Light Mode & Dark Mode)

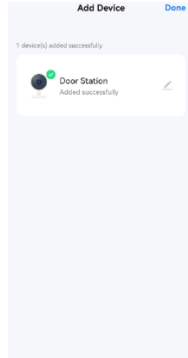
Unlock remotely

Edit (Button Management)

automatically enter the interface of monitor. Resident can make a video call to Villa station and unlock remotely on the smartphone. If Villa station is calling in, Indoor Monitor and Smart Life App can ring at the same time, and the mobile phone APP can answer the call and unlock remotely. Smart Life App can also monitor and unlock Villa station.

6.4. Rename devices

1. After scanning the device, resident will see the reminder (Added successfully). In this page, resident can edit the name and room of this device.



2. After the device is added, resident can customize the device name. The following steps and pictures are here for reference.

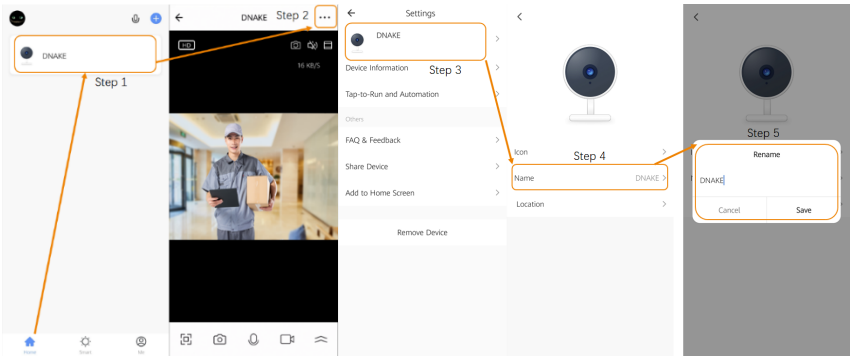
Step 1: Back to the home page and click the device to rename.

Step 2: Click Edit in the upper right corner.

Step 3: Select the icon.

Step 4: Click Name.

Step 5: Rename device.



6.5. Share devices

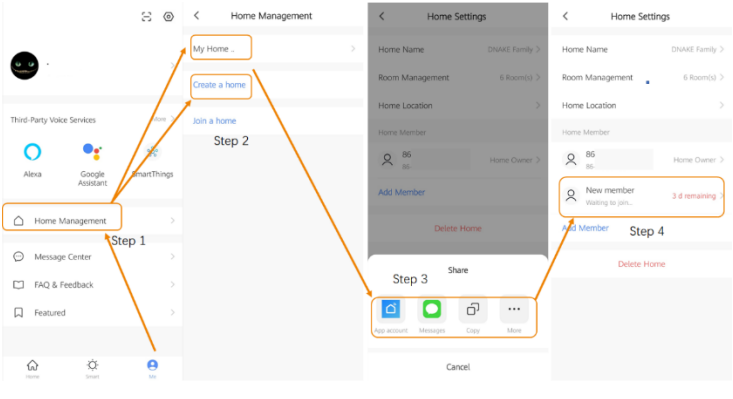
1. Resident can create a home to share resident's devices in this group. The following steps and pictures are here for reference.

Step 1: Go to Me page and then open Home Management.

Step 2: Select My Home or Create a Home.

Step 3: In the Home Setting page, resident can rename, locate, or share resident's device.

Step 4: Wait for new members to accept resident's invitation.



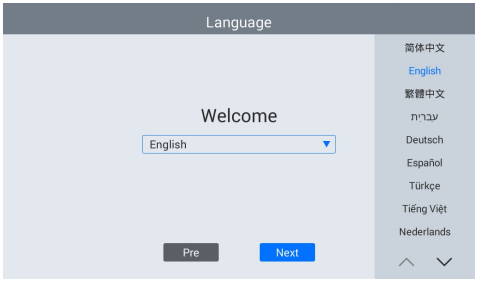
7. Add Subordinate Indoor Monitor

7.1. Add subordinate Indoor Monitor

1. After having added first Indoor Monitor successfully, resident can add more subordinate Indoor Monitors to it. The maximum amount of Indoor Monitor is six.

Step 1: Connect subordinate Indoor Monitor to the same LAN.

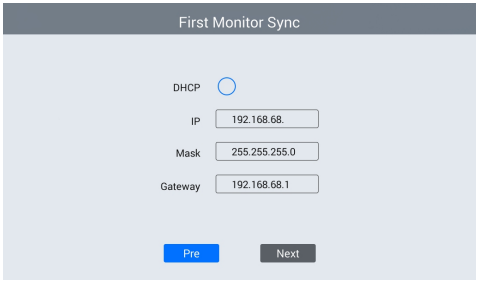
Step 2: Follow the guide on it. Select language.



Step 3: Choose No.

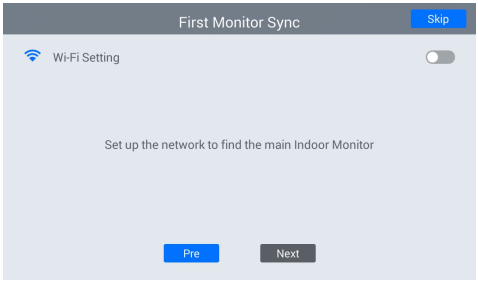
Step 4: Network of subordinate Indoor Monitor can be either dynamic or static. Select DHCP to enable dynamic network or fill in IP, Mask and Gateway to set up static network for subordinate Indoor Monitor. Network segment

should be the same as first Indoor Monitor's when using static IP address. For example, IP address should be 192.168.0.**if IP address of first Indoor Monitor is 192.168.0.**.

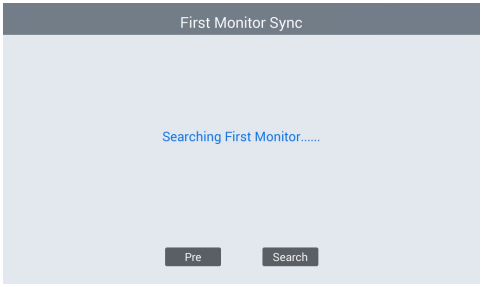


Step 5: As shown in the image, you need to set up the network to find the main indoor monitor.

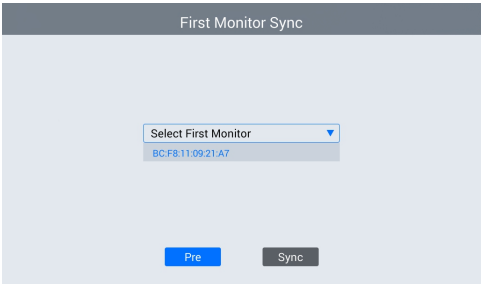
- If the main indoor monitor uses Wi-Fi, turn on the Wi-Fi option and ensure that both the subordinate and main indoor monitors are connected to the same Wi-Fi network.
- If the main indoor monitor uses a wired network, click "Skip" and make sure both the main and subordinate indoor monitors are connected to the same router.



Step 6: After configuring the network, click "Next." The subordinate devices will begin searching for the main device and automatically synchronize with it once found.

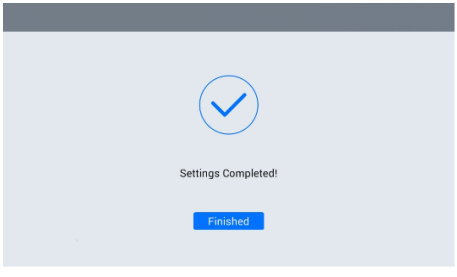


Step 7: Once the main device is found, select the corresponding MAC address to complete the pairing process.



- Note: If the main device is not found, the screen will display "Not found First Monitor. You can either re-initiate the search or return to the previous step to reconfigure the network settings.

Step 8: It's coming to an end here. All the basic settings are done.



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 Villa 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.

FCC WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure statement

This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

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