



User Manual

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DNAKE S617

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. 8-inch IPS LCD capacitive touch screen
- 2. 3 output relays for door locks
- 3. 120° wide-angle 2MP HD camera with automatic lighting
- 4. Support WDR technology to lighten the dark areas and darken the overexposed parts of the image
- 5. Unlock methods: Face recognition, IC/ID card, PIN code, Bluetooth
- 6. Tamper alarm

TECHNICAL PARAMETER

Power Supply: PoE+ (802.3at) or DC 12V/3A

Standby Power: 8 W Rated Power: 16 W

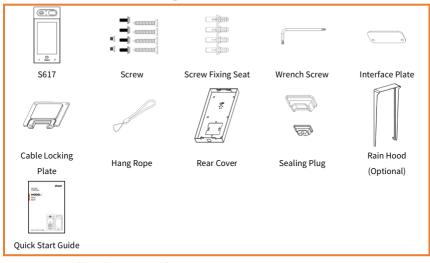
Resolution: 1280 x 800

Working Temperature: -40°C to +55°C Storage Temperature: -40°C to +70°C

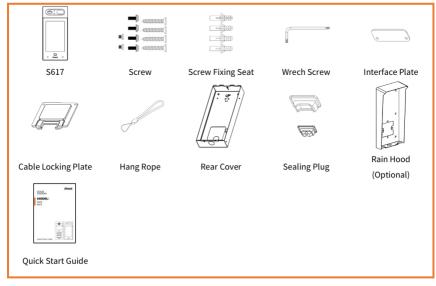
Working Humidity: 10% to 90% (non-condensing)

PACKAGE CONTENT

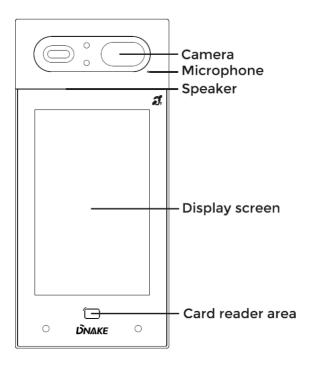
MODEL: S617 (Surface Mounting)



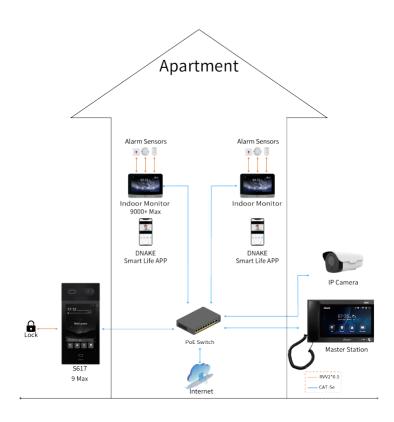
MODEL: S617 (Flush Mounting)



OVERVIEW

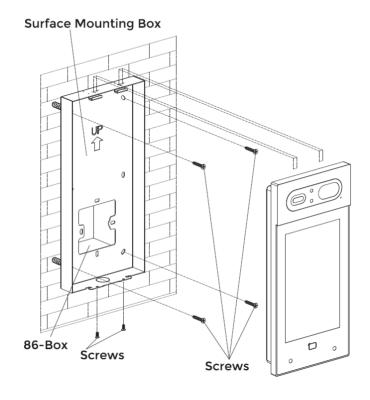


SYSTEM DIAGRAM



INSTALLATION

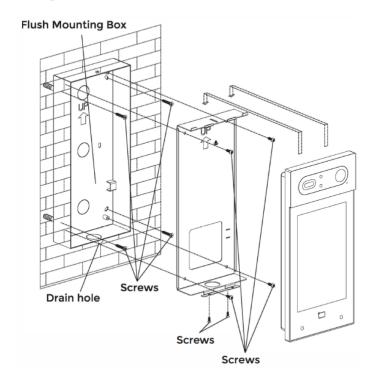
Surface Mounting-86 Mounting Box



Product size: $140 \times 300 \times 37.8 \text{ mm}$

Surface Mounting size: $140 \times 300 \times 41.8 \text{ mm}$

Flush Mounting

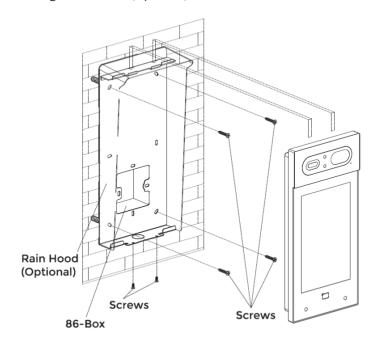


Product size: $140 \times 300 \times 37.8 \text{ mm}$

Flush Mounting size: $140 \times 300 \times 60.3 \text{ mm}$

Mounting hole size: $134 \times 296 \times 46$ mm

Surface Mounting & Rain Hood (Optional)

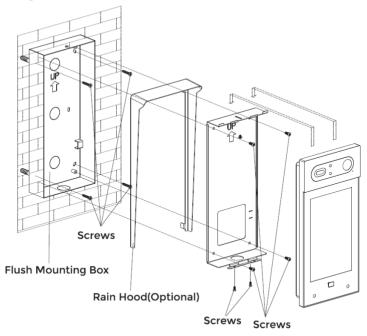


Product size: $140 \times 300 \times 39.8 \text{ mm}$

Surface Mounting Product size: $145 \times 311 \times 88 \text{ mm}$

Hole-cutting size: $134 \times 296 \times 46$ m

Flush Mounting & Rain Hood (Optional)



Product size: $140 \times 300 \times 39.8 \text{ mm}$

Flush Mounting product size: $145 \times 311.5 \times 88 \text{ mm}$

Hole-cutting size: $134 \times 296 \times 46$ mm

Tips:



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

BASIC OPERATION

1. Call and Monitor

1.1. Call Indoor Monitor

Press CALL, and press apartment number on Door Station to call Indoor Monitor. To end it, press the hang up icon on Door Station to end the call. If the call fails or Indoor Monitor is busy, Door Station will make a beep sound.

1.2. Monitor Door Station

Press Monitor icon on Indoor Monitor's homepage to monitor Door Station.

2. Contacts

Press CONTACTS to dial by selecting names from this list.

3. Unlock

Press PIN and press PIN Code and lock icon to unlock.

4. Concierge

On homepage, press concierge button in the center to call Master Station.

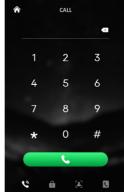
5. Facial Recognition

Press FACE to wake up face scan. Facial recognition should be enabled beforehand.

DEVICE SETTING

Connect Door Station to PoE switch. To enter admin page, press PIN and entering default password (123456#).







1. Device Settings

- Building No. (1-999) / Unit No. (0-99)
 Building No. is the number of the building in which the device is installed.
 Unit is a division of a building.
- Device No. (1-9)
 If lots of same-mode devices installed in the same site, and they share the same settings such as building, unit or apartment numbers, Device No. should be set to different numbers to distinguish.
- System pwd
 System password is for device's screen. Default password is 123456.
- 4. Mode

Door Station: It is for apartment building. Users can dial by pressing apartment numbers;

Villa Station: It is for villa or single family. Apartment number is required to fill in. Users can press one button or bell button to make a direct call.

Gate Station: It is for calling residents who are living in different buildings but in the same site.

5. Language

16 languages supported (简体中文, English, 繁體中文, עברית, Deutsch, Español, Türk, Tiếng Việt, Nederlands, Português, Polski, Русский, عربي, Français, Italiano, slovenský).

6. Volume

It refers to volume of calls. It can be set from 1 to 6.

7. Resolution

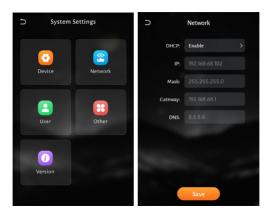
4 resolutions supported (320 \times 240, 640 \times 480, 1280 \times 720, 1920 x 1080).





2. Network Settings

Network can be set to either DHCP or a static IP address.



3. User

Users can be created and access settings can be configured here.



4. Other

Reboot or reset device to factory default.



5. Version

Some basic information are displayed here including firmware version, current IP address, MAC address, 1st SIP status and 2nd SIP status.



WEB SETTING

Connect device and PC to the same LAN. Device's IP address can be found on device's screen or obtained by DNAKE Remote Upgrade Tool. Enter the device's IP address in browser and log in with the default account (admin) and password (123456).



6. General > Information

6.1. Product

Model, Firmware version, MAC Address, Framework, UI and MCU version are displayed here.

6.2. Network

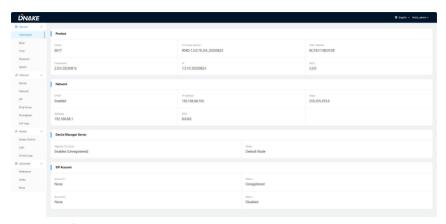
It presents the device's current network.

6.3. Device Manager Server

It presents the device's registration status and Node connection on DNAKE Cloud Platform.

6.4. SIP Account

Account 1 and 1st status are for DNAKE Cloud Platform while Account 2 and 2nd status are for 3rd party SIP server.



7. General > Basic

7.1. Basic

- 1. 16 languages supported (简体中文, English, 繁體中文, עברית, Deutsch, Español, Türk, Tiếng Việt, Nederlands, Português, Polski, Русский, عربي, Français, Italiano, slovenský).
- 2. 4 resolutions supported (320 \times 240, 640 \times 480, 1280 \times 720, 1920 x 1080).

7.2. Volume

- 1. Intercom refers to volume of calls. It can be set from 1 to 6.
- 2. System refers to volume of ringer, keytone, notifications. It can be set from 1 to 6.

7.3. Unlock Voice

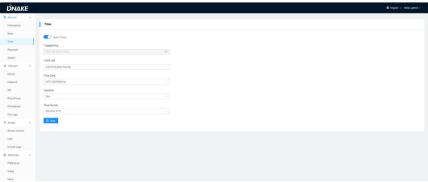
Upload the required voice file to change the unlock notification sound. File format should be Wav. File size should be smaller than 500kb. Sample rate should be 8k and bits should be 16.



8. General > Time

8.1. Time

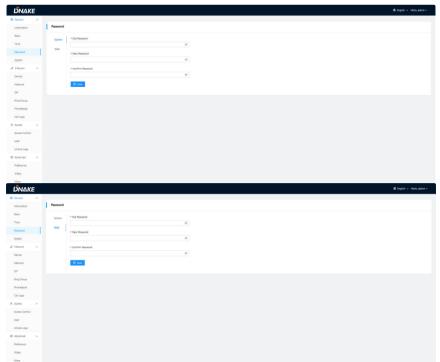
- Enable Auto (Time) to synchronize computer time or disable to set
 Date&Time to set manually. If Auto (Time) is enabled, Network Time
 Protocol (NTP) should be filled in correctly to synchronize computer time
 and Time Zone should be chosen according to the region.
- 2. 12H or 24H can be set to display the time on the device.
- 3. 3 time formats are supported (YYYY-MM-DD, DD-MM-YYYY, MM-DD-YYYY).



9. General > Password

9.1. Password

- 1. The default password for both of is 123456.
- 2. System password is for device's screen while Web password is for admin's web.



10. General > System

10.1. Backup&Import

1. Backup & Restore

Some necessary settings can be chosen to backup and restore to the same model.

2. Upgrade

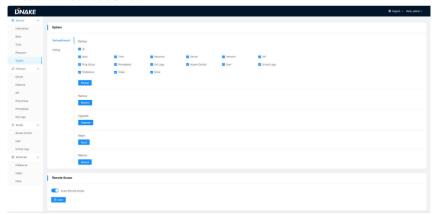
Firmware can be uploaded via web to upgrade device.

3 Reset

Click to reset to factory default.

4 Rehoot

Click to reboot device.



10.2. Debug

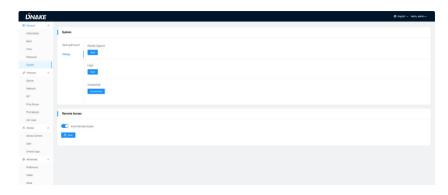
1. Packet Capture and Logs

The steps to capture packet and logs:

- Step 1: Start packet and logs capture;
- Step 2: Perform the operation to troubleshoot device problem;
- Step 3: Stop packet and logs capture and send them to technical support team.

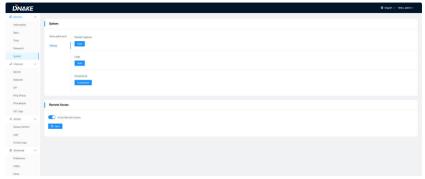
2. Screenshot

Click on Screenshot to take a screenshot of the screen's current image.



10.3. Remote Access

Enable this to allow cloud remote access to the web to configure.



11. Intercom > Device

11.1. Device Manager Server

Enable this to register to DNAKE cloud platform and check Node connection information and status.



11.2. Device

1. Automatic deployment

If Automatic deployment is enabled and Project/Site ID is filled in according to site ID on DNAKE Cloud Platform, this device would be connected with your installer account. All the rest settings like building, unit numbers can be changed on the cloud remotely. To change building, unit numbers manually, automatic deployment should be disabled.

2. Device Name

Device Name is for display on cloud, Indoor Monitor or APP.

3. Mode:

Door Station: It is for apartment building. Users can dial by pressing apartment numbers;

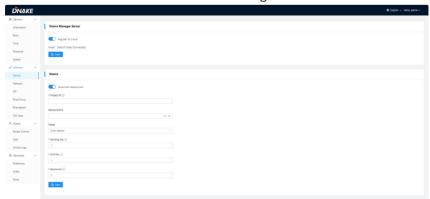
Villa Station: It is for villa or single family. Apartment number is required to fill in. Users can press one button or bell button to make a direct call. **Gate Station:** It is for calling residents who are living in different buildings but in the same site.

4. Building No. (1-999) / Unit No. (0-99)
Building No. is the number of the building in which the device is installed.

Unit is a division of a building.

5. Device No. (1-9)

If lots of same-mode devices installed in the same site, and they share the same settings such as building, unit or apartment numbers, Device No. should be set to different numbers to distinguish.



12. Intercom > Network

Network can be set to either DHCP or static. IP address here is not current IP address but static IP. Current IP address is in the information page.



13. Intercom > SIP

13.1. Account 1

The 1st SIP account is for registering to DNAKE Cloud Platform.

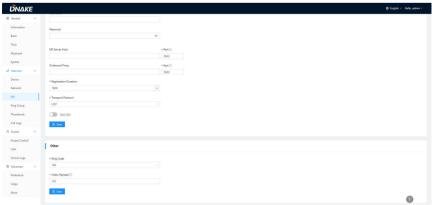
13.2. Account 2

Transport Protocol can support UDP, TCP or TLS.



13.3. Other

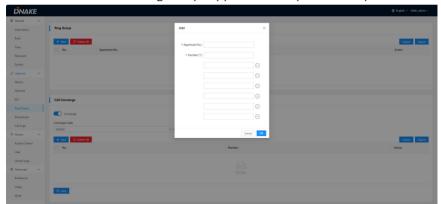
Ring code can be 180 or 183. Video payload range is from 96 to 127.



14. Intercom > Ring Group

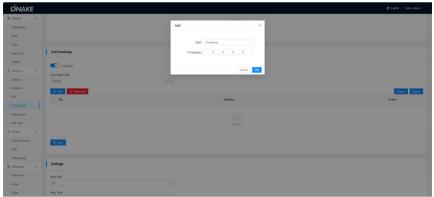
14.1. Ring Group

After clicking on Add icon, fill in Apartment No. which is the number to press on the device. Number (7 Max) is the call destination which can support IP address or SIP account. Ring Group support to be imported or exported.



14.2. Call Concierge

Call Concierge is for setting up the Concierge icon on homepage. Enable this and add the call destination by IP Address or SIP Address.



14.3. Settings

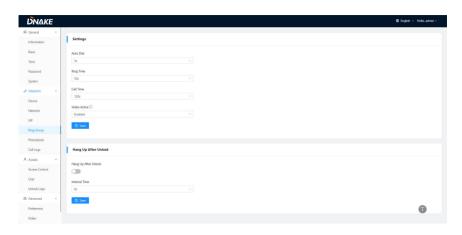
Auto Dial (3s, 5s, 10s, 20s)
 Call would be initiated again if Auto Dial is enabled.

- 2. Ring Time (10s, 20s, 35s, 45s, 60s, 90s, 120s)
 The time length for ringing.
- 3. Call Time (10s, 20s, 30s, 45s, 60s, 90s, 120s, 300s, 600s, 1200s, 1800s)
 The time length for the call.
- Video Active (Enabled, Disabled)
 Set to Enabled to receive video call or set to Disabled to make audio only call.



14.4. Hang up After Unlock

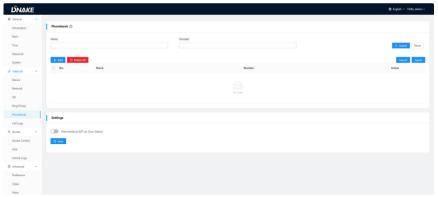
Call would be ended automatically after unlocking if this function is enabled. Interval Time support from 0s to 10s.



15. Intercom > Phonebook

15.1. Phonebook

Contacts can be manually added to the device. It can support 400 items at most. The list can also be imported and exported



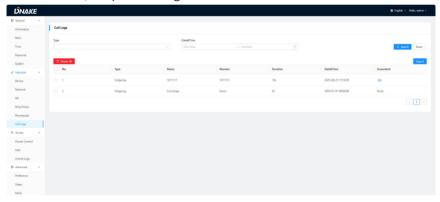
15.2. Settings

Resident's apartment numbers can be hiden from the door station's screen out of security concern.



16. Intercom > Call Logs

Logs presents Type, Name, Number, Duration, Date&Time, and Screenshot. It can also be exported. 500 call logs are supported at most; If the logs reached more than 500, the previous logs will be covered.



17. Access > Access Control

17.1. Relay

1. Relay

DTMF: Relay's DTMF can be changed to #, *, 0, 6, 7, 8, 9.

Unlock Delay: Unlock Delay can be changed from 0s to 9s.

Unlock Time: Unlock Time can be changed from 1s to 9s.

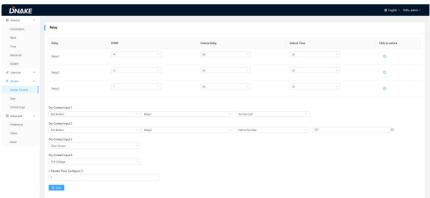
Click to Unlock: Relays can also be unlocked by clicking on the unlock icon on this web

2. Dry Contact input 1-4/Elevator Floor Configure

Dry Contact input 1-4: Inputs can be changed to 3 types, Exit, Door Sensor, Fire Linkage.

Exit button: Exit button can be linked with different relays and 3 modes, DO NO CALL, Call to Concierge, Call to Number. Do NOT CALL means unlock directly after pressing exit button. Call to Concierge means Door Station will call concierge to confirm the identity. Call to Number means Door Station will call the filled-in apartment number or IP address.

Elevator Floor Configure: Set the floor where this device is installed. The floor range is from -9 to 99. This setting is required when you have DNAKE Elevator Control Module installed.



17.2. Card (SL1/SL3)

1. Default Mode

The last 3 bytes of card would be read in default Mode. And relays should be chosen for registered card to unlock.

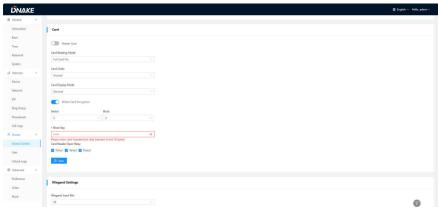
2. Full Card No.:

Card Order: it can either be normal or reversed sequence for display.

Card Display Mode: 2 options, Hexadecimal and Decimal.

Mifare Card Encryption:

Mifare can be encrypted. Sector (0-15), Block (0-3) and Block Key (6-16 bytes) should be filled in according to Mifare card. And relays should be chosen for registered card to unlock.



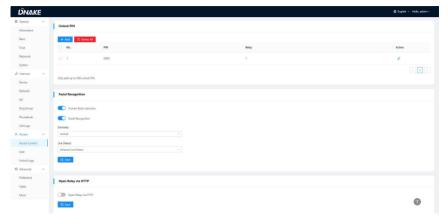
17.3. Wiegand Settings

Wiegand Input Bits and Wiegand Output Bits support to be set to 26, 34, or 58. And relays should be chosen for Wiegand to unlock.



17.4. Unlock PIN

500 unlock PIN codes can be created.



17.5. Facial Recognition

1. Human Body Induction

Facial recognition would be started automatically if anyone is in front of the camera.

2. Facial Recognition

The swith for facial recognition function.

3. Similarity (Low, normal, high)

Sensitivity of facial similarity analyzer.

4. Live Detect (Infrared Live Detect)

Only real person can unlock by facial recognition. Photo or video are not allowed.



17.6. Open Relay via HTTP

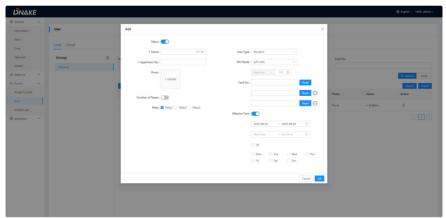
HTTP unlock function.



18. Access > User

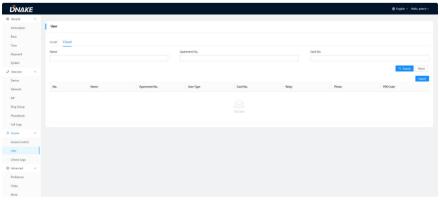
1. Local

Click on Add to add users to the local device. It can support 20,000 users at most. Photo can be uploaded. Individual PIN code can be generated and cards can be read for each user. Effective time can also be set for each user.



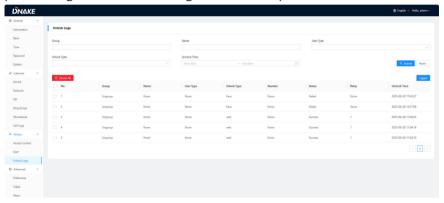
2. Cloud

Users in this page are downloaded from DNAKE Cloud Platform. It can also be exported.



19. Access > Unlock Logs

It supports 500 unlock logs at most. If the logs are more than 500, the previous logs will be covered. Logs can also be exported.



20. Advanced > Preference

20.1. Wallpaper

Upload photo for device's homepage. Image resolution should be 800 * 1280. Image format should be JPG or PNG. And image size should be lower than 512 KB.



20.2. Display

1. Display Type (Standard, Numeric+ABCD) Standard Call panel is the $\mathbf{1}^{\text{st}}$ picture with numbers. Numeric+ABCD call panel is the $\mathbf{2}^{\text{nd}}$ one with numbers and ABCD



2. Address

Address will be displayed below the time on homepage

Home Page Instruction
 Words will be displayed in the center of homepage.

20.3. Home Page Settings

Type (Home page, Icon 1-4)
 4 types, Home page, Icon 1, Icon 2, Icon 3, and Icon4.

2. Type (Call, PIN, Face, Contacts, QR Code, None)

The icon function on homepage can be changed or disabled.

3 Name

Name of the icons can be customized.



21. Advanced > Video

21.1. Video Stream Setting

The RTSP format of DNAKE intercom's camera is:

rtsp://admin:123456@192.168.68.103:8554/ch01

Default Username is admin and Password is 123456.



21.2. Video Stream OSD

Enable this to display real time stamp in white or black on each frame of Door Station's surveillance footage.



21.3. RTSP LED

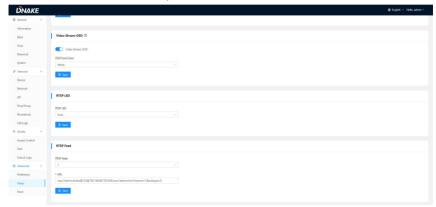
Set fill light to Auto mode or off mode when using RTSP stream.



21.4. RTSP Feed

To get IP camera's Real-time video, fill in its URL (RTSP). On the talking interface of Indoor Monitor, user can click the little keyboard icon to switch to

IP cameras' video. (No.1 on the keyboard stands for Door Station while No.2 to No.5 stands for IP cameras)



22. Advanced > More

22.1. Advertise

To advertise, enable and fill in URL of your advertisement. The interval time can be set to 10mins, 20mins or 30 mins.



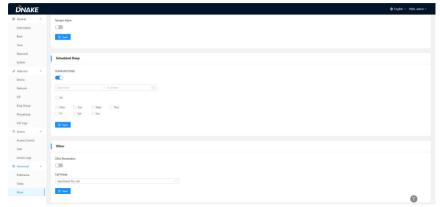
22.2. Tamper

Enable this to turn on tamper alarm. Door Station would strike the alarm if some one take it down from the bracket.



22.3. Scheduled Sleep

Screen sleep time can be set here.



22.4. Other

1. ONU Penetration

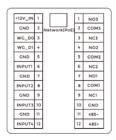
Enable this to prevent ONU from banning multicast;

2. Call Mode

Call mode can be changed to Apartment No. call, SIP Call, Contact Name Call.



DEVICE WIRING



1. Network (PoE+)

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

PSE of power supply equipment shall comply with IEEE 802.3at (PoE+), with output power not less than 30W and output voltage not less than SOV.



2. Power

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



3. Switching Value Output

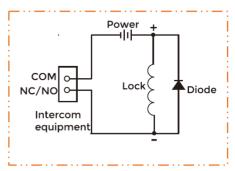
Connect to the lock module (an independent power supply is necessary for the lock).

NO3 •	Normally open port of relay
COM3	Common port of relay
NC3	Normally closed port of relay
NO2	Normally open port of relay
COM2	Common port of relay
NC2	Normally closed port of relay
NO1 •	Normally open port of relay
COM1	Common port of relay
NCI •	Normally closed port of relay
1401	

Switching Value Output

A Warning!

- 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 antiparallel 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 than2A. See attached picture for more details.

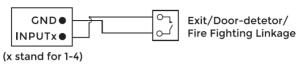


4. RS485

Enable this to connect equipment with RS485 interface.



5. Exit / Door-detector / Fire Fighting Linkage



6. Card Reader 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 Reader Interface IC/ID Card Reader or Management Device

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

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.

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.

EASY & SMART INTERCOM SOLUTIONS

