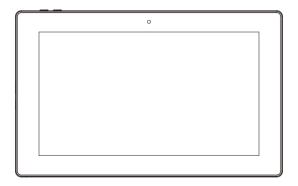
Operation Manual

For TCP/IP with 904 system



Indoor Monitor

■ 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

Product Features	1
Technical Parameters	1
Product Executive Standard	2
Pictures	3
Operations	9
1. VOIP	10
2. Security	16
3. Smart	23
4. Service	27
5. System Information	28
Web Settings	29
System Configuration	33
System Diagram	34
Installation	36
Troubleshooting	41
Safety Precaution	42

Product Features

1. Building intercom application:

VOIP: Support video call, monitoring, unlocking, VOIP communication and checking of call records.

Security: Support 8 alarm zones with 3 states and making the zone and scene setup.

Smart: Support smart home extension by RS485 communication.

Others: Support Android systems applications.

Support Wi-Fi network communication and bluetooth transmission(Optional).

Technical Parameters

Voltage: DC 12V

POE(S0/S3/S4/S6/S8 Optional)

Rated power: 10W

Standby power consumption: 3W

Display screen: 7" / 10.1"

Touch screen: capacitive touch screen
Resolution: 10.1": 1024X600(S3/S7/S9/S11)

10.1": 1280X800(S21)

7": 1024X600(S0/S2/S4/S6/S8)

Camera: 640x480CMOS(optional)
Operating temperature: -10°C+55°C
Storage temperature: -10°C+60°C
Storage Relative huminity: 20% ~ 85%
CPU Frequency: 8 Cores 1.5 GHz

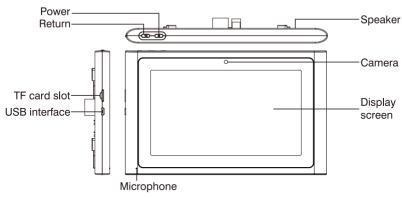
Flash: 4GB SDRAM: 1GB

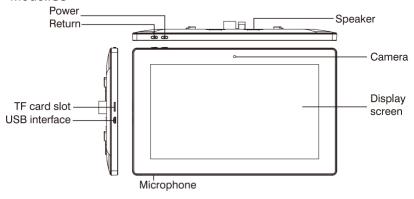
Product Executive Standard

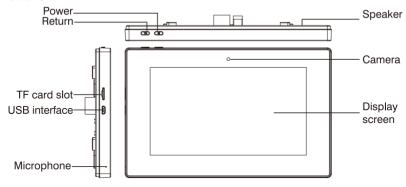
- ♦ GB/T 31070.1-2014 "Building Intercom Systems—Part 1: General Technical Requirements".
- ♦ GA 1210-2014 "Security Technical Requirements for Building Intercom Systems".
- ♦ GB /T12663-2019 "General Specifications for Burglar-alarm Control Units".
- ♦ GB /T 32581-2016 "Specifications for Intrusion and Hold-up Alarm System".
- ♦ GBT / 31070.2-2018 "Building Intercom System Part 2: Technical Requirements for Digital Building Intercom Systems".
- ♦ GBT / 31070.4-2018 "Building Intercom System Part 4: Application Guidelines".
- ♦ GB / T 37845-2019 "Technical Requirements for Home Security Intelligent Management Systems".
- ♦ DB31 / T294-2018 "Requirements of Intelligent Security Technology in Residential District"
- ♦ DB31T 1086-2018 "Requirements of Applications for Intrusion Alarm System".

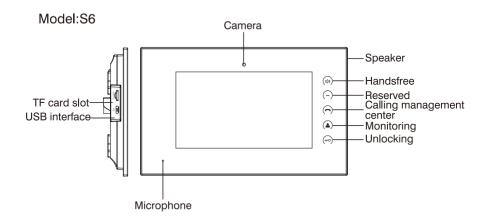
Pictures

Model:S2

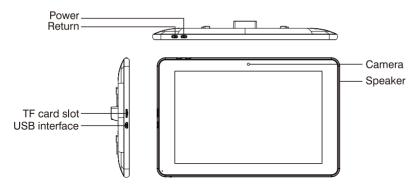


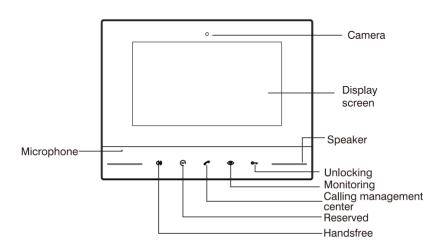




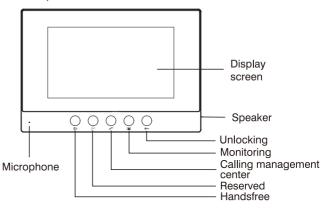


Model:S7

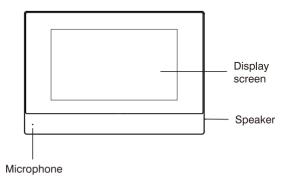




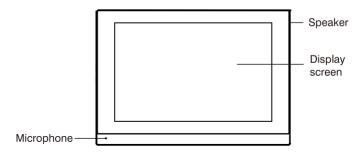
Model:S8(with button)

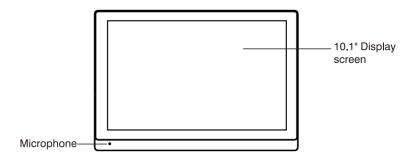


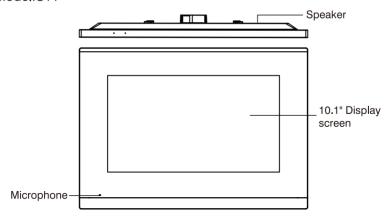
Model:S8(without button)



Model:S9







Operations



Main interface: VOIP, Security, Smart, Service, Contacts, Calendar, Photo and Message.

Status bar: Return, Main interface, Background program, Volume-, Volume+.

Shortcut key: Elevator, Out, Unlock and Apps.

- 1.The main interface will remind user when there are missed calls, unread MSG and SMS.
- 2. The state of weather is synchronously updated by NTP.

When the user enters into secondary menu, the interface displays the following icons at the bottom of the screen.

Status bar instruction:

- 1. Return : Click it to return to previous menu.
- 2. Main interface : Click it to return to main interface.
- 3.Background program \blacksquare : Click it to display the operating program on the background.
- 5. Volume- : Click it to reduce the volume.
- 6. Volume+ (1): Click it to increase the volume.

1 VOIP

Clicking "VOIP" icon on the main interface, the system will enter the following interface:



1.1 Call

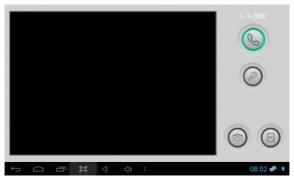
Clicking "Call" icon, the system will enter the following interface:



1.1.1 Call unit resident

Input 1-3 digits building No.+ "Building" + 2-digit Unit No. + "Unit" +4-digit room No., then click icon to call.

The system will enter into the following interface:



When the call is answered, the system will enter into call state:

- 1. If there is a camera, the caller's image will be displayed on the screen;
- 2. When the call is answered, the video will be uploaded into the indoor monitor

When the outdoor panel, wall panel or flat camera calls, the indoor monitor will ring; when someone calls on outdoor panel, his or her image will be displayed on the indoor monitor; if there is no answer within 25 seconds, the call will be ended.

Click icon to communicate with outdoor panel; click icon to end the call; click icon to unlock the door.

Remark: video intercom function between households is optional.

The user can make audio and video recording during communication (TF card should be inserted into indoor monitor). Click icon to take a snapshot of the visitor; click icon to save the video and image for current communication.

The system's default call duration is 120s.

1.1.2 Call management center

Clicking "Center" icon to call management center, the system will call from management center 1 to 5. If the management center cannot be searched or call failed, the system will automatically call next management center. When the management center answers, it will ring and stop calling.

Click loor to end the communication.

1.2 Monitor

Clicking "Monitor" icon, the system will enter the following interface:



Click "Door01" icon to switch outdoor panel and flat camera mode, then click or icon to select the area you want to monitor, and click icon to monitor the outdoor panel or flat camera. Click icon to end monitoring. Click icon to unlock the door

1.3 Records

Clicking "Records" icon, the system will enter the following interface:



refers to call-out record; refers to call-in record; refers to missed call record. It can save up to 64 records.

Click or icon to search for records. Select one record and click con to call; click icon to delete it. Click icon to back-up.

If there is snapshot image, click 🔟 icon to view it.

1.4 Room

Click "Room" icon, then input 1-6 digits password (the default password is

123456) to enter into the following interface:



Warning: Please revise synchronous No.(6 digits) as soon as possible after you read the user's manual. The synchronous No. of all indoor monitors in one household must be the same.

Click the building box, and the system will pop up a digital keypad. Input the 3-digit Building No. such as 001, and then click "OK" to finish the building No. setting. The setting method of Unit No., Floor No., Room No., Device No. and Synchronous No. is the same as the one of Building No.. The Unit No., Floor No. and Room No. are limited to 2 digits respectively. When Device No. is set to be 0, it's regarded as the main indoor monitor; when Device No. is set from 1 to 4, it's regarded as the sub indoor monitor. The device No. of indoor monitor can not be repeated.

Server is IP address of the computer with management software, and Password is used for server connection.

1.5 VOIP

Clicking "VOIP" icon, then input 1-6 digits password (the default password is 123456) to enter into the following interface:



Click "Enable" to enable SIP.

Proxy: sip proxy server URL, the format is sip:ip or sip: realm name.

Realm: the scope for the device, the same with IP or realm name.

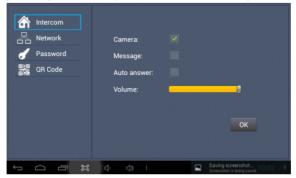
Password: the password to access proxy server, offered by the administrator of sip proxy server.

Stun IP and port: the public network server IP and port crossed by audio/video NAT.

To connect with SIP network phones from other manufacturers, check "Enable" and fill in "User" with the number registered on SIP server.

1.6 Settings

Clicking "Settings" icon, the system will enter the following interface:



1.6.1 Intercom

If you want to enable camera, message and auto answer functions, check the box. Slide from left to right to adjust the volume of the intercom, and then click the "OK" icon.

1.6.2 Network

Click "Network" icon to enter into the following interface:



DHCP: after using the DHCP, the router will automatically distribute IP address

IP: the system will automatically display IP address of the indoor monitor. IP address is unique.

The default Mask address is 255.255.255.0. Normally, it is unnecessary to modify. If you would like to modify it, clicking the setting box twice, a keypad will pop up. Enter your new Mask address, and then click the "OK" icon.

The default Gateway: fill in according to IP network segment distribution of project site.

DNS server: refers to the IP address of the DNS server.

Sys IP: The system will automatically display the read IP address of indoor monitor.

MAC: The MAC address of a device.

After setting up, click the OK icon.

1.6.3 Password

Clicking "Password" icon to enter into the following interface:



You can set and confirm new system password with 1-16 digits (default one is 123456). The password is used for system settings.

1 6 4 QR Code

Click "QR Code" icon to enter into the following interface:



Scanning the QR code with DNAKE mobile APP, it will be synchronized with the indoor monitor.

2.Security

Clicking "Security" icon on the main interface, the system will enter into the following interface:



2.1 ON/OFF

Clicking "ON/OFF" icon, the system will enter the following interface:



2.1.1 ON

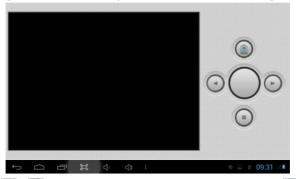
There are three modes for arming, "Out", "Home" and "Sleep". As shown in the interface above, click the "Out", "Home" or "Sleep" icon to activate the alarm sensors. After clicking, indoor monitor will emit a beep. The default delay time for system arming is 100 seconds. After 100 seconds, the system will emit a beep. Users need to select the alarm zone before arming (see the alarm zone settings for details).

2.1.2 OFF

- (1) During the alarm delay time, clicking "OFF" icon, the system will emit a sound and stop arming.
- (2) Input user password(the default password is 1234) to stop the alarm under alarm ON status.

2.2 Camera

Clicking "Camera" icon. the system will enter into the following interface:



Click or or button to select camera you want, and then click to monitor the IP camera. During the monitoring, if you want to cancel monitoring, click to stop it.

2.2.1 IP Camera Setting

Connect the computer and the indoor monitor to the same network (for communication), and then enter: http://IP address of indoor monitor in the computer browser to the adding and setting page of IP camera. Enter the user name and password (default user name is "user" and default password is "1234"). Then click on "IPC" to set IP Camera.

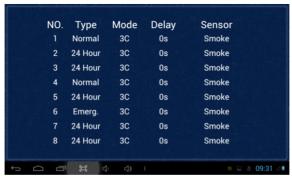


The system supports monitoring of IP camera in standard RTSP (rtsp://username:password @monitoring IP: port) streaming mode. IP Camera code can be MPEG4 or H.264, etc. Up to 8 IP Cameras can be added. Select the number of IP Cameras you want to add, click the "Submit" icon, and then fill in the name and address of each IP Camera correctly.

After setting up, click "Logout" to exit.

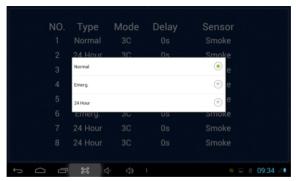
2.3 Zone

Clicking "Zone" icon and inputting 1-4 digits password(the default password is 1234), the system will enter into the following interface:



2.3.1 Alarm Type

Clicking type input box, it will pop up a dialog box as the following. In this interface, you can set alarm Type as: Normal, Emergency and 24H. 24H and Emergency type are always active.



2.3.2 Mode

Clicking mode setting box, it will pop up a dialog box as the following interface. In this interface, you can set mode as: 3C, NO, NC and BELL.



2.3.3 Delay Time

It refers to the delay time of giving an alarm. Clicking Delay setting box, it will pop up a dialog box as the following interface with selections: 0s, 5s, 15s, 20s, 25s, 40s or 60s as the expected delay time. For example, if you select the delay time: 5s, once the alarm sensor is triggered, the indoor monitor will sound sirens after 5 seconds.



2.3.4 Sensor Type

Clicking sensor type input box, it will pop up a dialog box as the following interface. Each sensor type can be set up as: Smoke, Gas, PIR, Door, Window, Panic, Flood, Pull Cord or Bed Mat.



When alarm sensor is triggered, the indoor monitor will make a loud alarm sound. The system will enter into the following interface and send alarm message to management center (if your system is installed with management center):



You can see the No. and sensor type in red shown at the top of interface. For example: "2:Smoke" indicates that in Zone 2 Smoke sensor is triggered.

To stop the alarm sound, input the password (the default password is 1234).

2.4 Scene

Clicking "Scene" icon, the system will enter into the following interface:



refers to Alarm ON, refers to Alarm OFF. To set the sensor for the scene, you can click the corresponding scene with ricentricent include NONE, 30s, 40s, 60s, 100s and 300s.

2.5 Settings

Clicking "Settings" icon, the system will enter into the following interface:



You can set the new user password with 1-4 digits (the default password is 1234). This password is used for security.

3. Smart

Clicking "Smart" icon on the main interface, the system will enter into the following interface:



3.1 Scene

Clicking "Scene" icon, the system will enter into the following interface:



Scene mode includes: Home, Out, Movie, Party or Sleep.

3.2 Light

Clicking "Light" icon, the system will enter into the following interface:



Set the light for corresponding room, such as Master, Sub, Living or Dining Room (see the room settings for details). 8 lights can be set in every room at most. Click the corresponding light icon, then you can control ON/OFF of the light.

3.3 Air

Clicking "Air" icon, the system will enter into the following interface:



Set the air-con switch of corresponding room. Click "OFF" icon to turn air-con on/off; click "Cold" icon to cool; click "Wet" icon to dehumidify; click "Wind" icon to ventilate.

Two air-conditioners can be set for each room at most.

3.4 Curtain

Clicking "Curtain" icon, the system will enter into the following interface:



Clicking "Close" icon, the curtain will be closed; clicking "Open" icon, the curtain will be open; clicking "Pause" icon, the curtain will be paused.

3.5 Elevator

Clicking "Elevator" icon, the system will enter into the following interface:



Click ▲ or ▼ icon to control the elevator to go up and down. Click "Permit" icon to allow access to the floor where the indoor monitor is located.

Remark: To support this interface, your system must connect with "Elevator Control" module. Kindly check with your system provider.

3.6 Settings

Clicking "Settings" icon, the system will enter into the following interface:



3.6.1 Room setting

You can add, delete room data and change the room type. The room types include: Living, Dining, Master, Sub, Study, Kitchen and Corridor.

There are max, 20 rooms that can be set.

3.6.2 Light setting

Clicking "LIGHT" icon, the system will enter into the following interface:



There are max. 8-channel lights for each room. You can set the corresponding room's lamp. Choose the room type first, then you can set the name for each light.

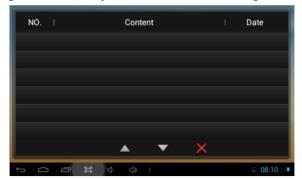
4. Service

Clicking "Service" icon on the main interface, the system will enter into the following interface:



4.1 SMS

Clicking "SMS" icon, the system will enter into the following interface:



Note: only clicking the management software on PC which is usually located at guard center, so can indoor monitor receive the message sent by PC.

Click icon to page up; click icon to page down; click icon to delete the record.

64 records can be received in SMS at most.

4.2 BROWSER

Clicking "BROWSER" icon, the system will enter into the web page linked with the indoor monitor (the function is available on the Internet).

You can also set the default link for "COOK", "MAP", "GOV" and "MALL" in the wepbage on indoor monitor.

5. System Information

Clicking "System Information" icon on the main interface, the system will enter into the following interface:



You can look over the relevant information

Web Settings

Please refer to 1.6.2 to view IP address.

Connect the indoor monitor and computer by network switch. Input the indoor monitor's IP address in the browser, then input user name and password (the default user name is "admin", the password is "123456") to enter into the web setting interface.



1. Network

Click "Network" icon to enter into the following interface:



The user can change the IP address of indoor monitor here. Checking the box of the ethwifi, wifi and wired network will work synchronously, but this is only available for those indoor monitors with wifi function.

2. RoomNo

Click "RoomNo" icon to enter into the following interface:



The settings are the same as the ones of indoor monitor.

3 VOIP

Click "VOIP" icon to enter into the following interface:



The settings are the same as the ones of indoor monitor.

To connect with SIP phone, check "SIP Enable", and input the number registered in SIP server.

Timeout: Talking time settings.

Click "Submit" icon to save the settings.

4. Advanced

Click "Advanced" icon to enter into the following interface:



Ex Phone: input IP address of other manufacturer's SIP device. It refers to other factory's VOIP device which can be used as sub indoor monitor. When outdoor panel calls indoor monitor, SIP device will ring at the same time. Other terminals will stop ringing when one of the indoor monitor or SIP device answers the call.

Auto Pickup: checking the box, the indoor monitor will automatically answer the call, when outdoor panel calls but there is no answer within 10s.

Quick Call: If you want to call other SIP device(for example IP address is 192.168.15.100) by pressing the icon "Center", you can check this option, input for example sip:1@192.168.15.100 (1 can be any number) and then save the settings.

When you click the icon, it will call this SIP device.



Remark: the address can be the SIP address of indoor monitor or other factory's VOIP device.

Click"Submit" icon to save the settings.

5. Webkit

Click "Webkit" icon to enter into the following interface:



Advertising: Checking the box, when there's advertisement pushed from management software, it will display when the indoor monitor is in standby state.

Browser: input the linking address in the box. As there is a "BROWSER" icon on the indoor monitor, when the user clicks the icon, it will switch to the linking web page.

Click"Submit" icon to save the settings.

6. License

It is reserved.

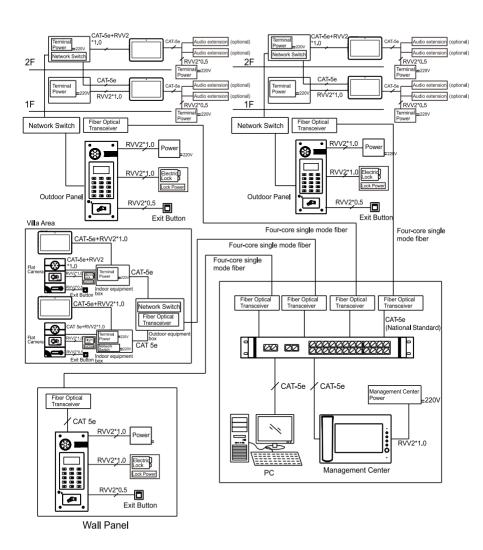
7. Logout

Click "Logout"icon to enter into the following interface:

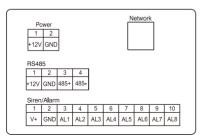


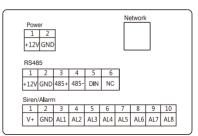
Clicking "Submit" icon, it will log out from the system.

System Configuration



System Diagram



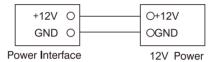


Standard

S21(1.25T Interface)

1 Power

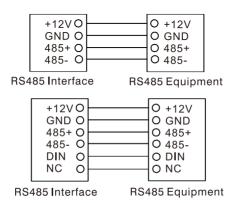
Power input interface: Connect with 12V power adapter.



2 RS485 Interface

Connect with BS485 interface device:

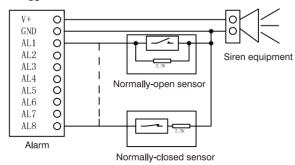
RS485 interface can output 12V/100mA power supply. If RS485 equipment to be connected doesn't require the power supply, no need to connect +12V.



3. Alarm interface

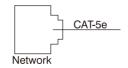
Each interface of 8 alarm zones with 3 states can be connected with normallyopen or normally-closed switch.

Connect the alarm equipment and output 12V/100mA power supply when the alarm scenario is triggered.



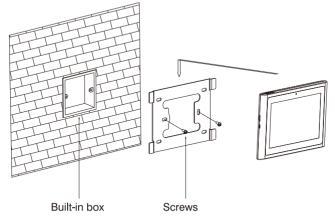
4. Network

Connect with outdoor panel, management center, indoor monitor or other network equipment by network switch.



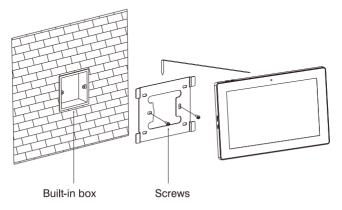
Installation

Model: S2

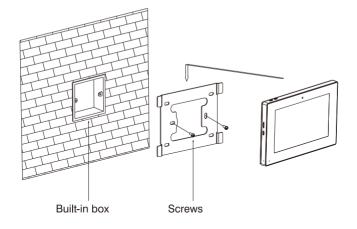


Size: 205*126*18mm

Model: S3

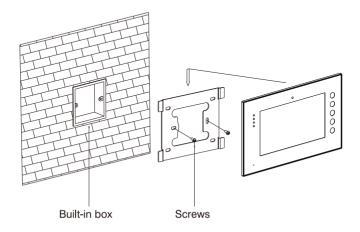


Size: 270*168*15mm

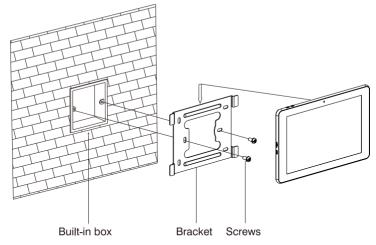


Size: 205*129*18mm

Model: S6

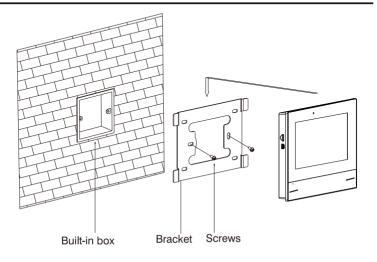


Size: 235*145*19.5mm

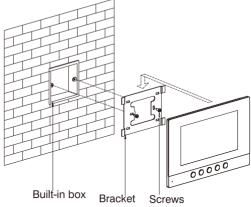


Size: 270*176*16.5mm

Model: S0

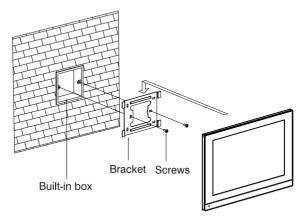


Size: 220*166.5*16.5mm

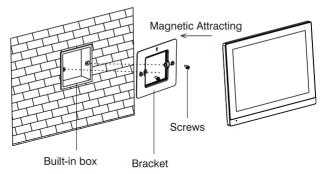


Size: 221.4*151.4*16.5mm

Model: S9

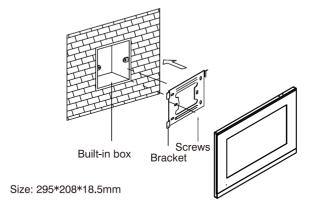


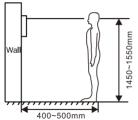
Size: 270*189*16.5mm



Size: 234.4*144.4*13mm

Model: S11





[Suggestion]: During the installation, the camera should be $1450\sim1550$ mm above the ground. The camera angle for photographing human face should be the top priority.

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.

• Checkwhethertheindoormonitorissetasmutemode, orthevolumeis setto the lowest

The indoor monitor cannot monitor the outdoor panel.

•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 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 twice.

Touchscreen responses slowly or cannot make calibnation.

- 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-termuse leads to high emperature. It's normal and will not affect the device's use life and performance.

Safety Precaution

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 sunshine or near the heat source. This 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 hands or unplug the power cord by pulling.
- Do not bend or damage the power cord.
- Do not touch the device with wet hands.
- 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, insectresist 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 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.

Other notes

In order to prevent paintcoat or outer skin from damage, don't make the device contact with chemicals, such as diluent, gasoline, alcohol, insect-resist agents, opacifier, insecticide, etc.

- Don't knock or beat the device with hard materials.
- Don't put pressure on display screen. Pressing too hard may lead to frame stoppage or damage for the device.
- If you are sitting under the device, please pay more attention when standing up.
- Don't disassemble, configure or fix the device by yourself. The manufacturer will not guarantee for such change or configuration of device. To repair, please contact customer service center.
- If the device makes strange sound, taste or smoke, please unplug the power supply immediately and contact customer service center in time.
- If the device isn't used for a long time, we suggest to unplug the power adapter and SD card, and place it on the dry environment.
- Please hand over the instruction to new owner for proper usage of the device.