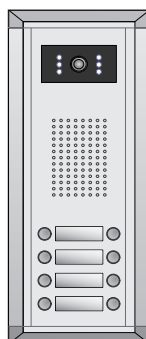


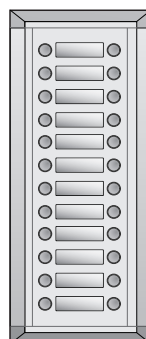
Intelligent Intercom System



MR11/ID/S4



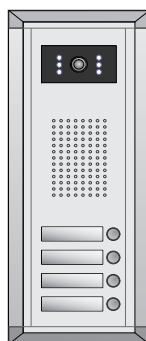
MR11/D8



EP11/D24



MR11/ID/D8

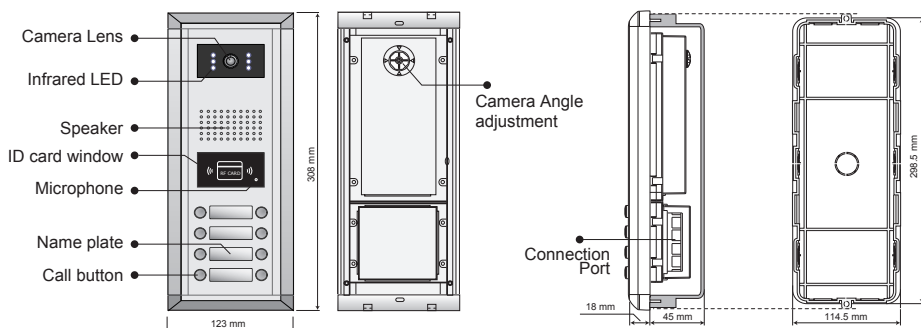


MR11/S4



EP11/S12

1.Parts and Functions



2. Terminal Descriptions

• CN-LK

- » **+12V:** 12VDC power output.
- » **LK-(GND):** power ground.
- » **LK+(COM):** Common contact of the Relay .
- » **NO.:** Normally open with LK+, can be configured to normally close through ST-Config
- » **EB+:** Exit button connection port.
- » **EB-:** Exit button connection port.

• RROG

- » **D1:** Data Receive.
- » **D2:** Data Transmit..
- » **A1:** Audio signal.
- » **VD:** Video signal.
- » **P+:** Power positive(output).
- » **P-:** Power negative(output).

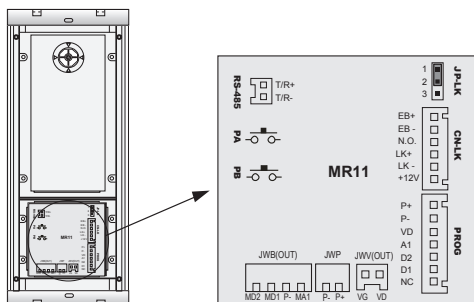
• POWER

- » **P+:** Power positive(input).
- » **P-:** Power negative(input).

• RS485

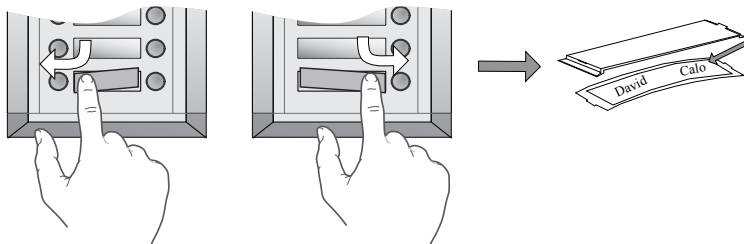
- » **T/R-:** USB-RS485 communication terminal negative.
- » **T/R+:** USB-RS485 communication terminal positive.
- » **PA:** program button A(refer to program section).
- » **PB:** program button B.(refer to program section).

- **JP-LK:**For electronic lock safety type setting(refer to Door Station Lock Connections).



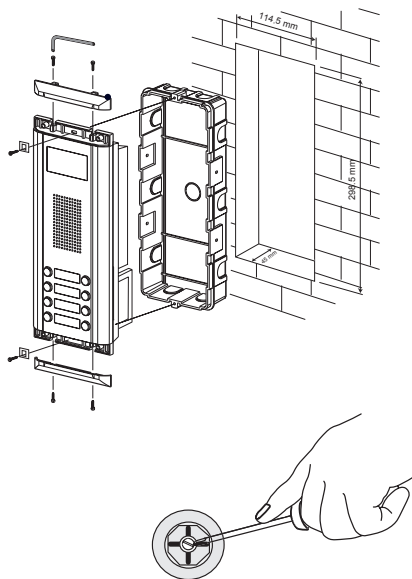
3.Place Name Lable

Press down and shift right/left to open the trasparent nameplate cover, then insert the name paper, then put the plate cover back to the panel. Note thar double button line panel can be opened both direction, single button line Can only be opened at right side



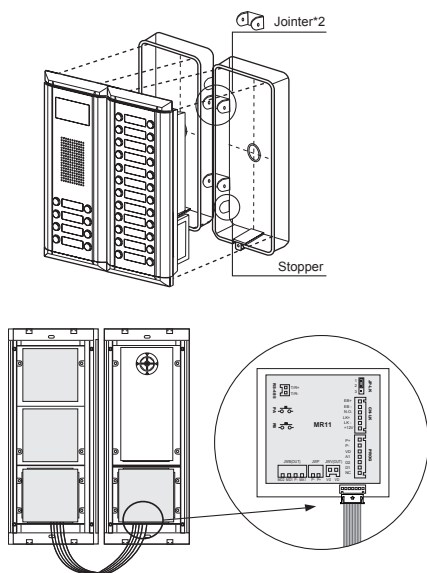
4.Door Station Mounting

Standard Installation



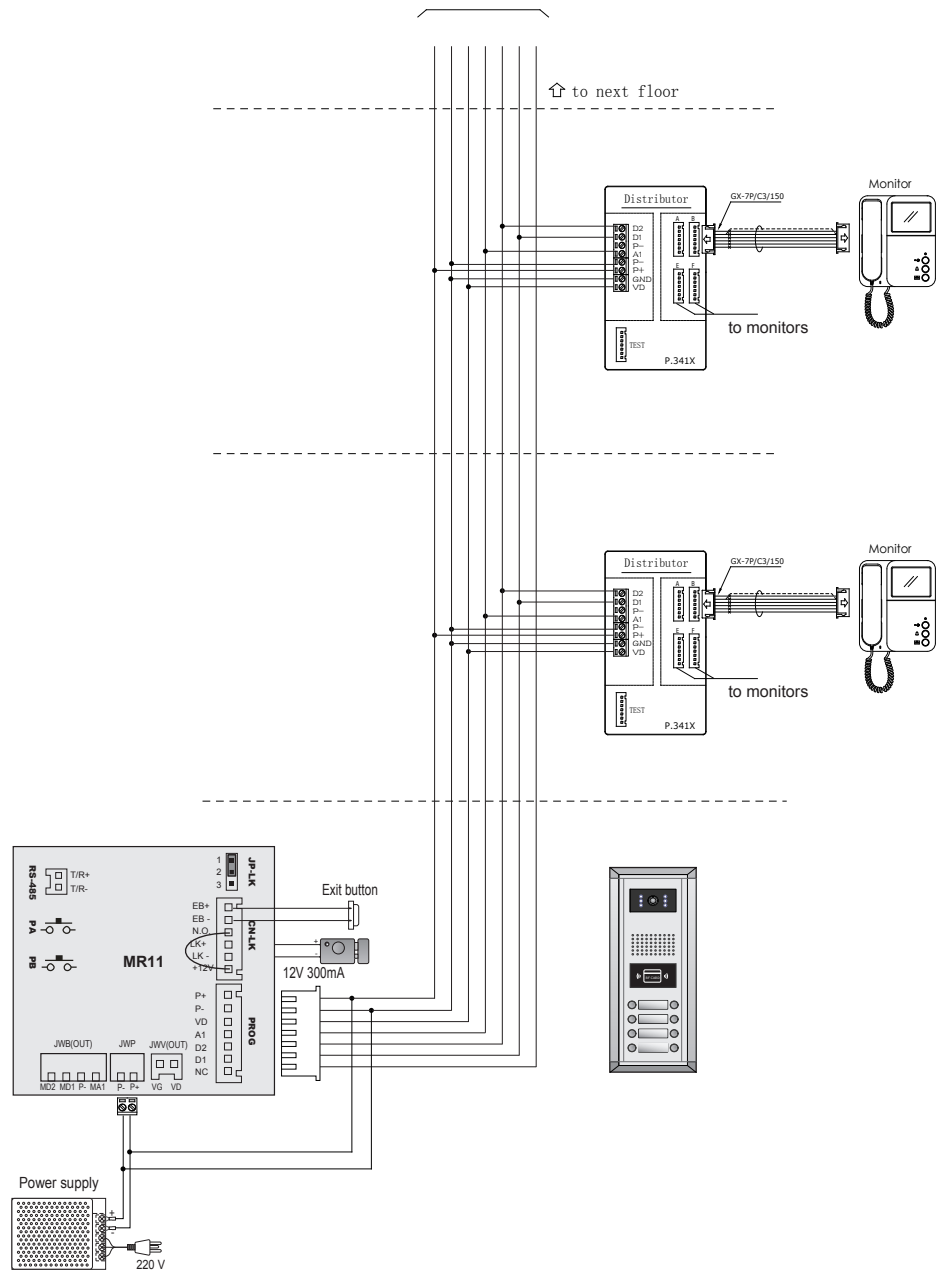
Open the mounting box of the panel, use a cross screw to adjust the view angle of the camera before installation.

Installation with expanding panel



Note:The double button line extended panel should match double button line door station; the single button line extended panel should match single button line door station. For example, the EP11/Dx should be connected to MR11/Dx .

5.Basic Connection



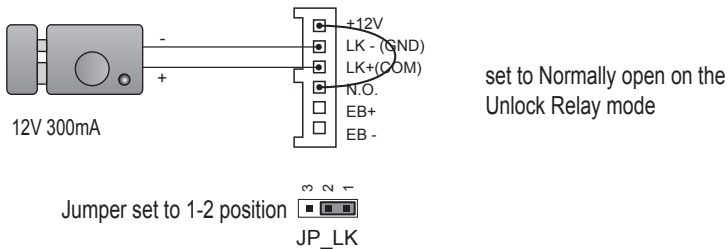
6.Door Lock Connections

1. Internal Power Supply Mode

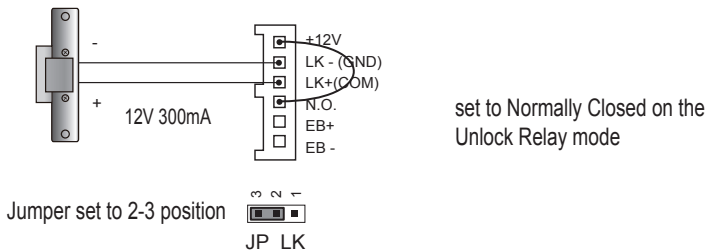
Use the power of the system to supply for the electronic lock, so that the lock can be connected to the door station directly, without an additional power supply for the electronic lock. Note that the door station can only output 12Vdc power, therefore the kind of lock is limited.

- The rated power of the lock must be less than 12Vdc 300mA when using internal power supply mode
- The GND must connect to the negative of the lock, and the COM connect to the positive .
- Jumper set to 2-3 position for Power-off-to-Unlock safety type(Normally closed mode); set to 1-2 position for Power-on-to -Unlock type(Normally open mode).
- If different unlocking time is needed to be configured, the ST-CONFIG software can be used to change the Unlock Timing on the Parameter tab(for more detail information ,please refer to ST-CONFIG software user manual).

A. Connection for Power-on-to-Unlock type:



B. Connection for Power--off-to-Unlock type:

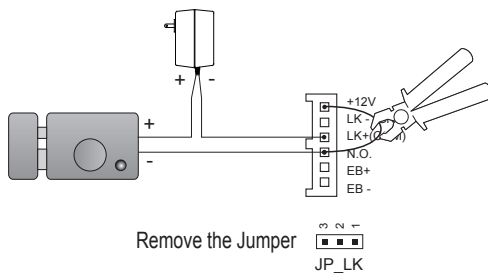


2. External Power Supply Mode

When the electronic lock is over 12 Vdc, additional power supply for the lock is needed.

- The power supply for the lock must be less than 48Vdc 1.5A.
- The Jumper must be removed when using external power supply. The default setting is Power-on-to-Unlock type(Normally open mode), if use Power-off-to-Unlock type, change the Unlock Relay mode to Normally closed mode.
- If different unlocking time is needed to be configured, the ST-CONFIG software can be used to change the Unlock Timing on the Parameter tab(for more detail information ,please refer to ST-CONFIG software user manual).

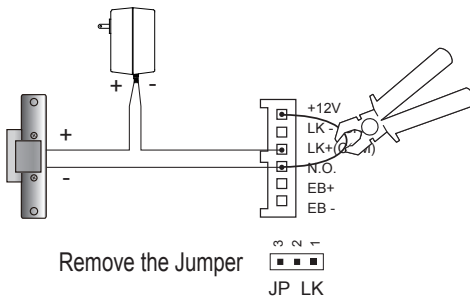
C. Connection for Power-to-Unlock type:



set to Normally Open on the Unlock Relay mode (default)

Note: Cut off this line when using external power supply

D. Connection for Power--off-to-Unlock type:



set to Normally Closed on the Unlock Relay mode

Note: Cut off this line when using external power supply

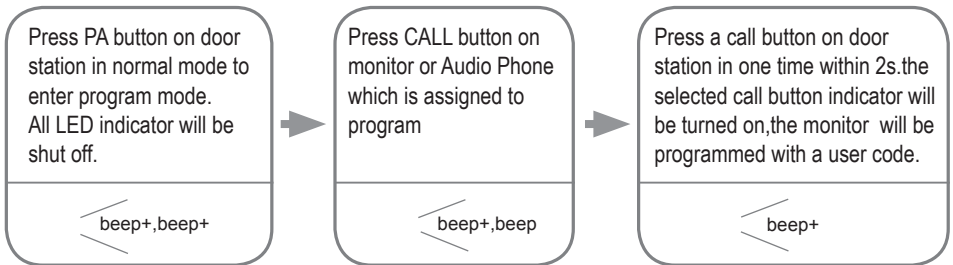
6.Door Station Configurations

1. About room code(address):

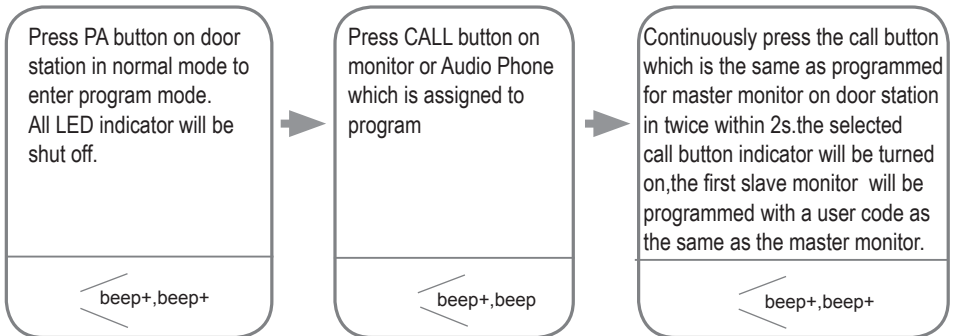
Room code(also called room address) is a code assigned to each monitor, to identify different monitors; each monitor have a unique room code in one buidling.The room code is stored in each Monitor's inner EEPROM memory, and it won't be lost even the monitor is power off.

2. User Code Programming:

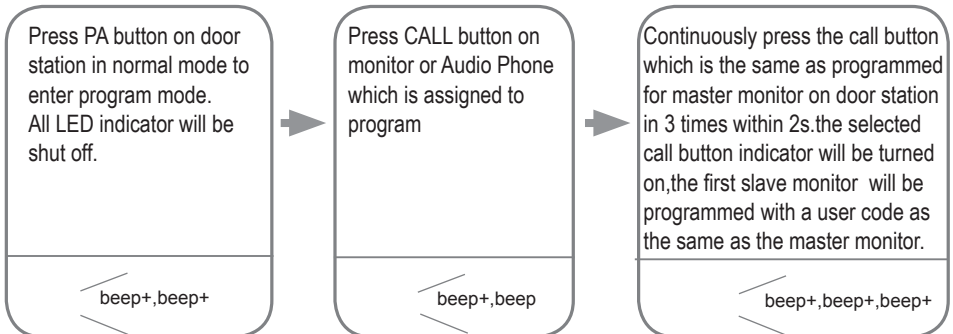
Program user code for master monitor:



Program user code for the first slave monitor:



Program user code for the second slave monitor:



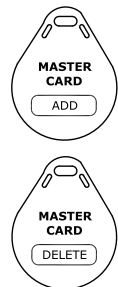
Note:

- The door station will exit out the program mode wether the programming is success or not.all LED indicators will be recovered to turn on.
- Please repeat the operation from step 1 to step 3 to program the next monitor or next Audio Phone(or the slave monitors)
- During programming,if there isn't any operation within 60s when the CALL button has not been pressed on monitor or there isn't any operation within 10s when the CALL button has been pressed on monitor.The door station will exit out the program mode automatically."beep,beep,beep" will be sent out from door station,and all LED indicators will be recovered to turn on.

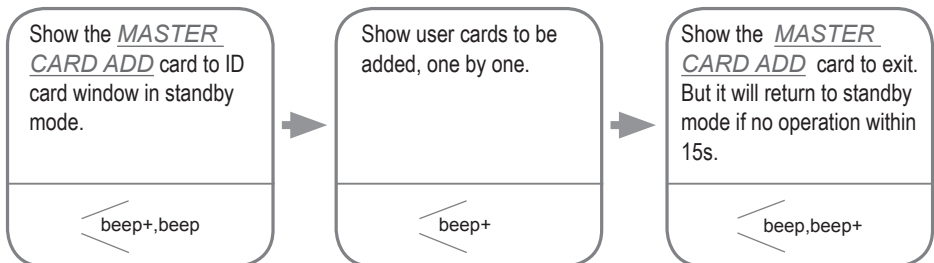
3. ID Card Registration(just for the model with ID function):

Introduction:

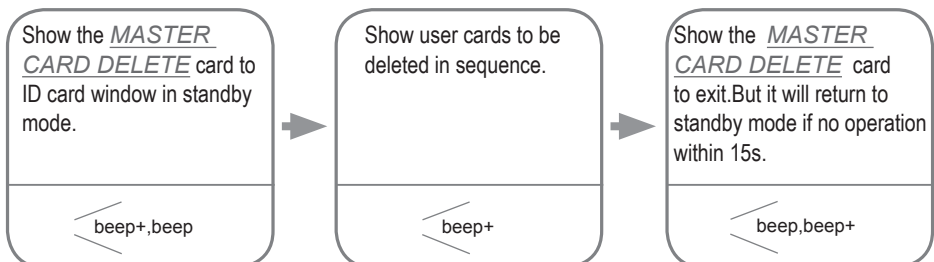
- Up to 1000 user cards can be registered by the door station.
- Easy management with LED status and sound hints.
- There are two master cards, one MASTER CARD ADD card and one MASTER CARD DELETE card, When registered new master cards, the old master cards are invalid automatically.
- Card reading distance is from 3 to 5 cm.
- The master cards are necessary when you add or delete user cards.
Please keep it well for future use.



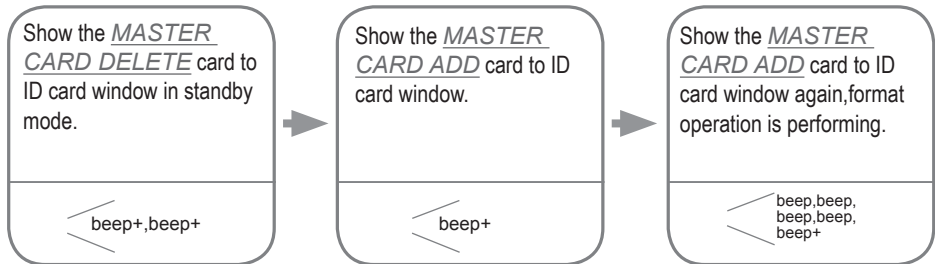
Add User Cards:



Delete User Cards:

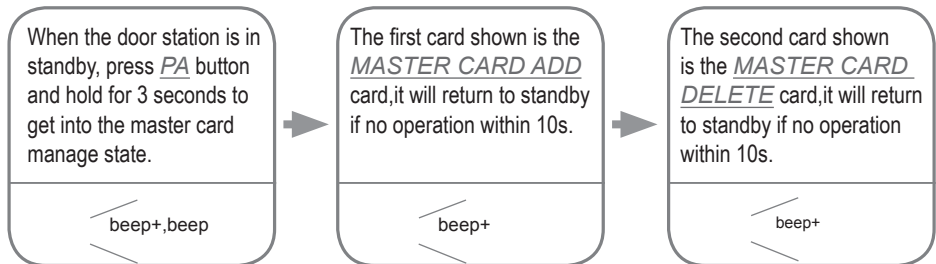


Access Initialization (delete all user cards):

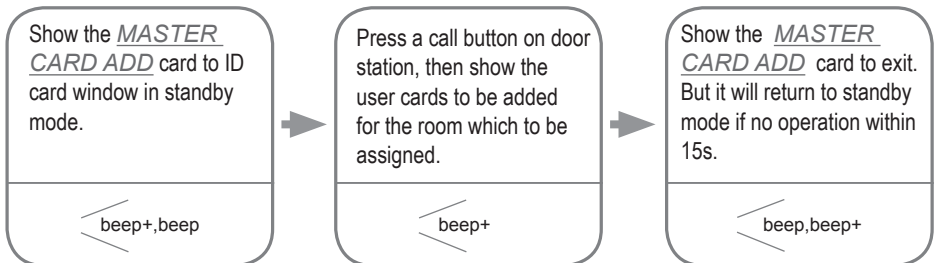


Authorize master cards:

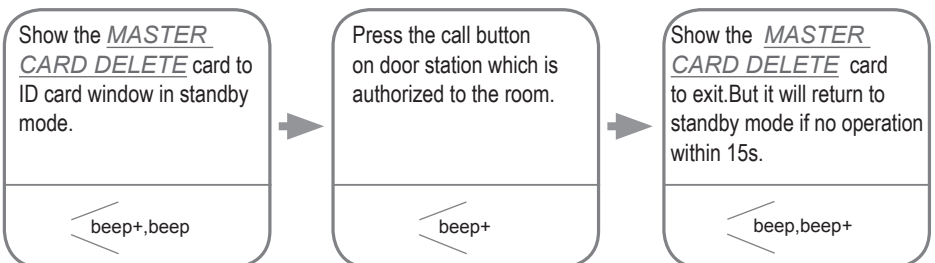
By default, there are two master cards marked MASTER CARD ADD and MASTER CARD DELETE, but you should know that the master card can be authorized by users at any time. That means any two user cards can be authorized to master cards. When registered new master cards, the old master cards are invalid automatically.



Add User Cards by Room:



Delete User Cards by Room:



Card management soud hints

| State | Operation | Sound hint |
|-----------------------|--|------------------------------|
| standby state | show user card(registered) | a long 'beep+' (door open) |
| | show user card(not-registered) | beep, beep ,beep |
| Card management state | Enter the card management state | beep+, beep |
| | Exit out the card management state | beep ,beep |
| | Add card/Delete card/Format successful | beep+ |
| | Add a already existed card | beep+, beep+ |
| | Add card/Delete card/Format unsuccessful | beep, beep, beep |
| | Add a debug card(16666666) | beep, beep ,beep, beep |
| | Add card failure (1000 cards registered) | beep, beep ,beep, beep, beep |

Card management LED hints

| State | LED-A | LED-B | LED-C | LED-D |
|-----------------------|-------|-------|-------|-------|
| Standby | ON | ON | ON | ON |
| Authorize ADD-Card | ON | OFF | OFF | ON |
| Authorize DELETE-Card | OFF | ON | OFF | ON |
| Add user card | ON | OFF | OFF | OFF |
| Delete user card | OFF | ON | OFF | OFF |
| Format | ON | ON | OFF | OFF |



MR11/ID/D8

7. Monitor Online Search

Search the monitors controlled by the right row buttons

Press PB button on door station in normal mode to activate searching monitors controlled by the right row buttons. All LED indicator will blink twice, then turn off. Monitor online search is starting.

-If the monitor is online, the indicator of the corresponding button will light up and send out sound of "beep".

-If the monitor is not online, the indicator will not light up and send out sound of "beep, beep, beep".

Search the monitors controlled by the left row buttons

Press PB button and hold for 3s on door station in normal mode to activate searching monitors controlled by the left row buttons. All LED indicator will blink twice, then turn off. Monitor online search is starting.

-If the monitor is online, the indicator of the corresponding button will blink twice, then light up. and send out sound of "beep".

-If the monitor is not online, the indicator will not light up and send out sound of "beep, beep, beep".

Note:

- After all monitors had been searched, the indicators of the corresponding buttons for all online monitors will blink twice, then light up. and send out sound of "beep". then the door station will exit out the search mode automatically.
- During searching, press the PB button on door station to exit manually.

8. Specification

- | | |
|-------------------------------------|----------------------------------|
| ● Power supply: | DC 18~24V |
| ● Camera Lens | 1/3 inch color CCD |
| ● Power consumption: | Standby 0.5W; Working status 15W |
| ● Video signal: | 1Vp-p, 75Ω, CCIR standard |
| ● Unlock Power output: | 12Vdc 300mA |
| ● NO, COM exchange contact: | Max. 48V dc 1.5A |
| ● Monostable relay activation time: | 1 second to 10 minutes $\pm 5\%$ |
| ● Working temperature: | -5°C +45°C |
| ● Wiring: | 6 wires, polarity |
| ● Dimension: | 313(H)x128(W)x63(D)mm |

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