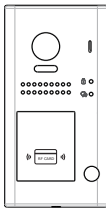


2 WIRE SYSTEM

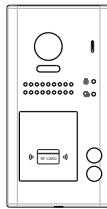
DT607 Series

Fisheye door station with proximity access control

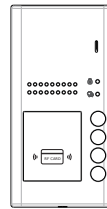
USER MANUAL



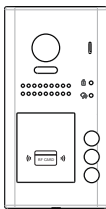
DT607/ID/FE-S1



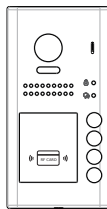
DT607/ID/FE-S2



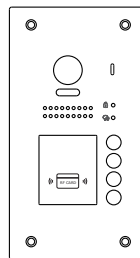
DT607A/ID-S4



DT607/ID/FE-S3



DT607/ID/FE-S4



DT607F/ID/FE-S4

- Please read this manual carefully to ensure safe and correct operation.
- Keep this manual well for future reference.

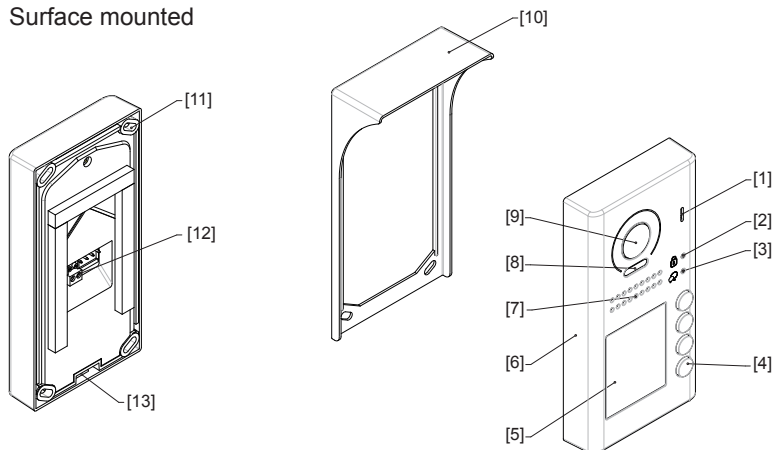
CONTENTS

PARTS AND FUNCTIONS	3
Part Names	3
Mounting	4
BASIC FUNCTIONS	6
Unlock Operations	6
Fisheye Camera	6
External Motion Detection	6
SETUP INSTRUCTIONS	7
Functions Setting Up	7
Setting Door Station Address	8
Setting Door Station Calling Mode	8
Setting Camera Resolution	10
Setting Unlock Mode	10
Setting Unlock Time	11
Setting Nameplate Illumination Mode	11
Setting Night View LED Illumination Mode	12
Setting Ring-back Tone	12
Setting Image Display Mode	13
Registering ID Card	14
WIRING	17
Connecting Electric Lock	17
Connecting Basic One-to-one	18
Connecting Multi Door Stations	18
Connecting Multi Monitors	19
APPENDIX	21
Precautions	21
Specification	21
Cables and Requirments	22

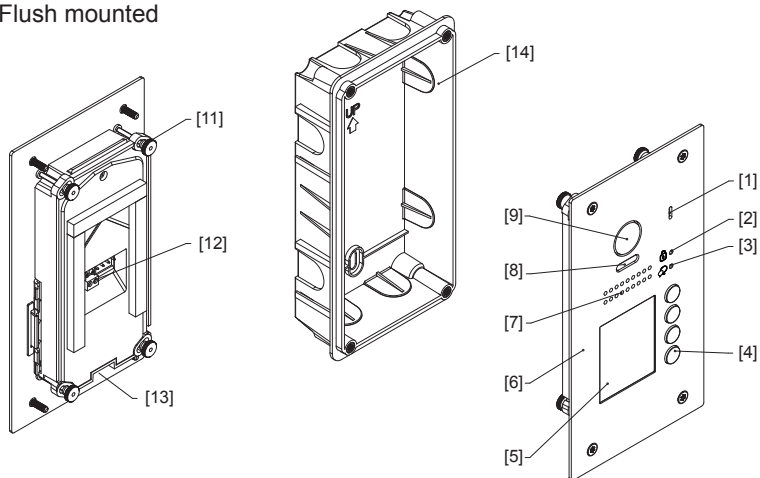
PARTS AND FUNCTIONS

Part Names

Surface mounted



Flush mounted



[1] Microphone

[2] UNLOCK indicator

[3] CALL indicator

[4] Call button

[5] Nameplate

[6] Front panel

[7] Speaker

[8] Night view LED

[9] Camera lens

[10] Rainy cover

[11] Mounting hook

[12] Connection port

[13] Screw hole

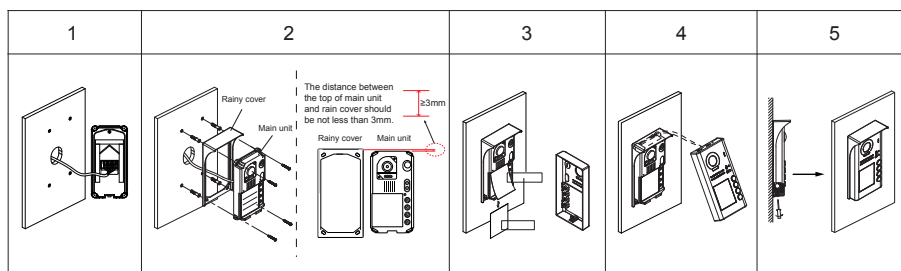
[14] Mounting box

PARTS AND FUNCTIONS

Mounting

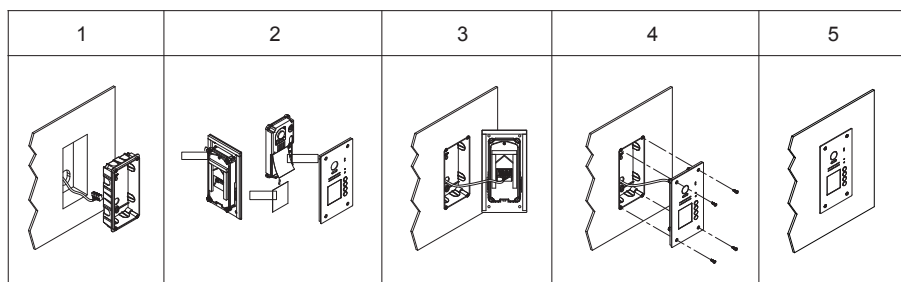
The installation height is suggested to 145~160cm.

Surface mounted



1. Connect the cable correctly.
2. Drill holes in the wall to match the size of screw stoppers, then attach the rainy cover and main unit to the wall, and the distance between the top of main unit and rain cover should be not less than 3mm.
3. Install the name plate.
4. Attach the front panel to the main unit.
5. Use the special screwdriver and the screws to fix the panel.

Flush mounted

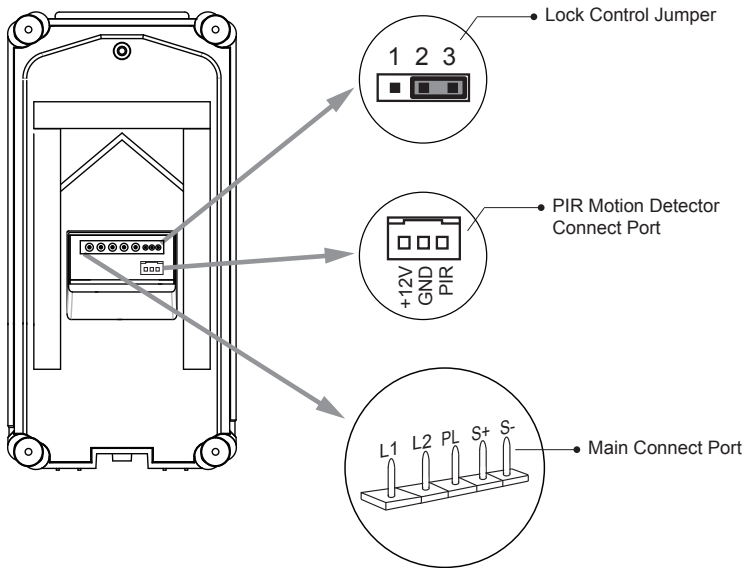


1. Drill a hole in the wall to match the size of mounting box, then attach the mounting box to the wall.
2. Loosen the high screws to install the name plate.
3. Connect the cable correctly.
4. Attach the front panel to the mounting box, then use the special screwdriver and the screws to fix the panel.
5. Finish the installation.

* The camera angle view of surface mount model may be less than 170°.

PARTS AND FUNCTIONS

Terminal description



Lock Control Jumper: To select the lock type.

Motion Detector Connect Port: To connect external PIR motion detector.

Main Connect Port: To connect the bus line and the electronic locks.

- **L1,L2:** Connect to the bus line, no polarity.
- **PL:** External lock power input, connect to the power positive(power +).
- **S+:** Lock power(+) output.
- **S-:** Lock power(-) output, connect to the power(-) input of locks(only when using the door station to power the locks, if using the external power supply for the locks, the S- will not be connected).

BASIC FUNCTIONS

Unlock Operations

Unlocking of ID Card

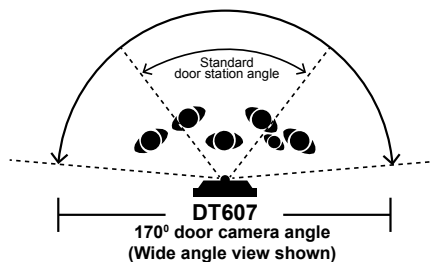
When the registered user card has been shown to ID card window, the UNLOCK indicator lights up, the buzzer sounds, and the electric door strike is unlocked.

- If show the authorized user card, the buzzer will sound of beep+, and the UNLOCK indicator will light up.
- If show the unauthorized user card, the buzzer will sound of beep, beep, beep.

Fisheye Camera

Please note that this function requires the monitor with fisheye function to support.

The angle view is 170°, visitors in this angle view can be seen clearly and can be zoomed to see individuals up close via indoor monitor with fisheye function.



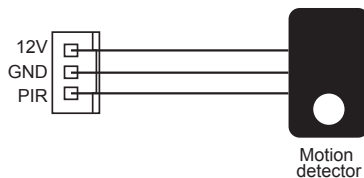
External Motion Detection

The door station is equipped with a terminal to connect external motion detector.

If the external motion detector is connected to the system, following functions will be effective:

If detect someone passing by, the door station can be activated operation to unlock or turn on light.

* Please contact with supplier for more details about detector connection.



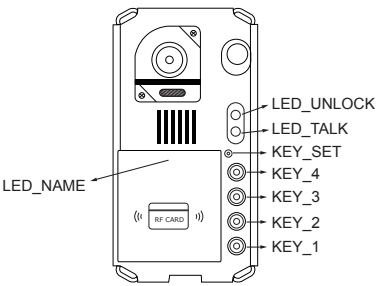
SETUP INSTRUCTIONS

Functions Setting Up

This section explains the settings of each function, please refer to the following table:

To perform the settings for the function you want, you should move away the metal front panel. Please refer to the sketch map.

Each operation is indicated by the lighting up of the **LED** indicator on the unit, and by the sounding of the buzzer.



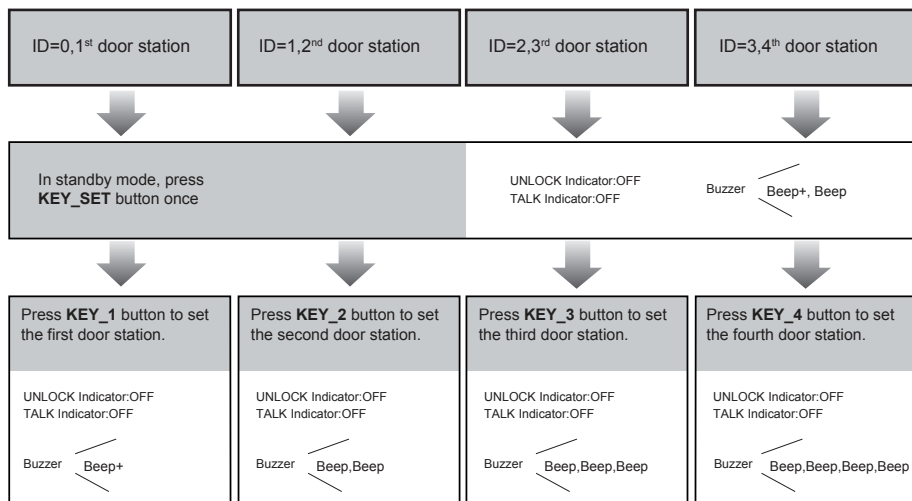
Order	Setting items	Setting range	Default value
1	Setting door station address	0~3	0
2	Setting door station calling mode	Standard/Group calling mode	Standard calling mode
3	Setting camera resolution	High/Low	High
4	Setting the unlock mode	0:opened/1:closed	0:opened
5	Setting the unlock time	01 to 99 seconds	1 seconds
6	Setting the nameplate illumination mode	On/Off/Auto	On
7	Setting night view LED illumination mode	On/Off/Auto	Auto
8	Setting ring-back tone	Ringing one time Ring continuously No ring-back tone	Ringing one time
9	Setting image display mode	Alternate switching mode Zoom mode Full screen mode	Alternate switching mode

SETUP INSTRUCTIONS

Setting Door Station Address

Total 4 addresses can be configured. It can be modified either before or after installation.

0 is default, to change the setting, please follow the steps:



- If setting mode has not been exited, you can change the address of door station by pressing KEY1~4 freely.
- The **LED_NAME** indicator will always blink until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button four times to exit out the setting mode manually.

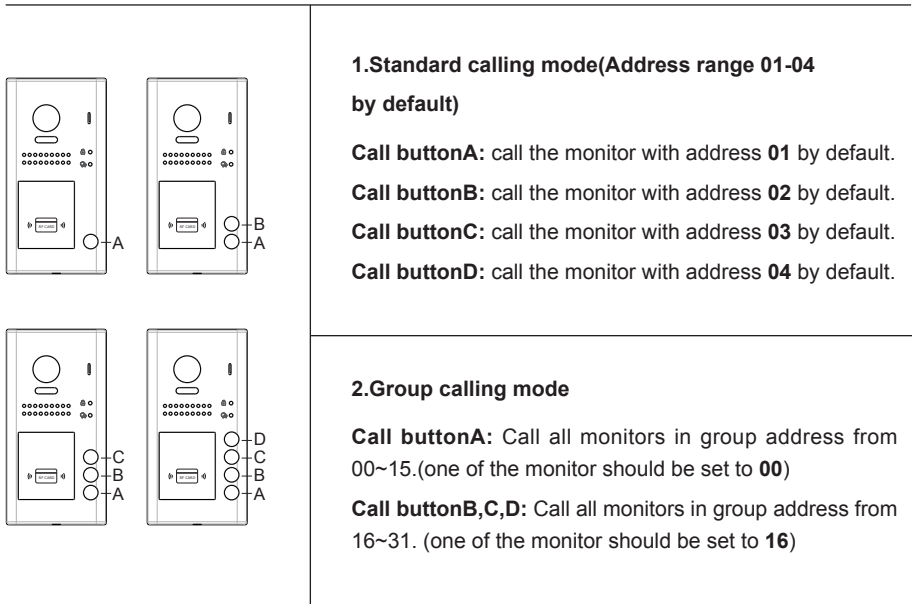
Setting Door Station Calling Mode

There are two calling modes for door station, **Standard calling** mode and **Group calling** mode.

Please know that the door station work in Standard calling mode by default.

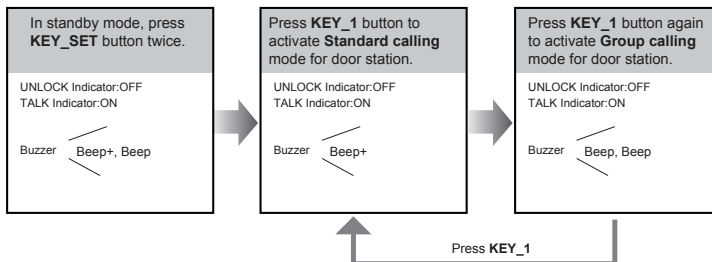
SETUP INSTRUCTIONS

Each call button will respond different addresses when set in different calling mode. Refer to the followings for more informations.



* More details about code setting for monitor, please refer to corresponding user manual .

To change this setting, please follow the steps:



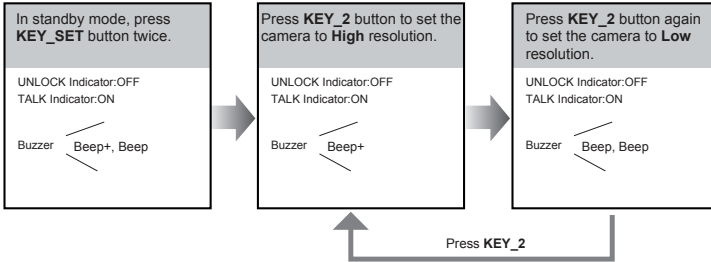
- If setting mode has not been exited, you can change the calling mode by pressing KEY1 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step,press **KEY_SET** button three times to exit out the setting mode manually.

SETUP INSTRUCTIONS

Setting Camera Resolution

The resolution of the camera can be adjusted at any time, that means the quality of image on screen can be set to high or low.

High resolution is default, to change the setting, please follow the steps:

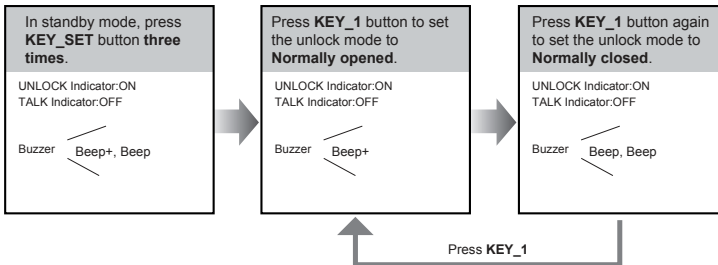


- If setting mode has not been exited, you can change the camera resolution by pressing KEY2 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button three times to exit out the setting mode manually.

Setting Unlock Mode

There are 2 unlock modes, **Normally opened** and **Normally closed**.

Normally opened is default, to change the setting, please follow the steps:



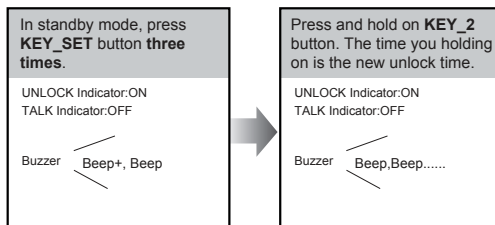
- If setting mode has not been exited, you can change the unlock mode by pressing KEY1 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button twice to exit out the setting mode manually.

SETUP INSTRUCTIONS

Setting Unlock Time

By default, the unlock time is 1s, but it can be changed, the setting range is 1s~99s.

Follow the steps:

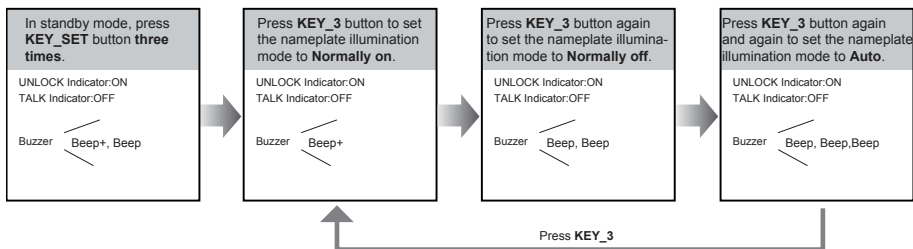


- When entering time delayed setting, the buzzer sound one time every second.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button twice to exit out the setting mode manually.

Setting Nameplate Illumination Mode

There are 3 illumination modes for nameplate indicator, **Normally on**, **Normally off** and **Auto**.

Normally on is default, to change the setting, please follow the steps:



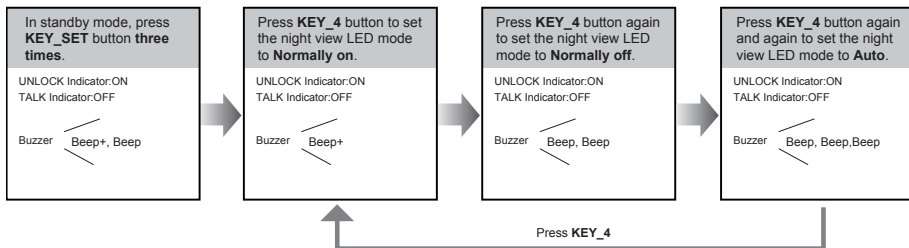
- If setting mode has not been exited, you can change the nameplate illumination mode by pressing KEY3 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button twice to exit out the setting mode manually.

SETUP INSTRUCTIONS

Setting Night View LED Illumination Mode

There are 3 working modes for night view LED indicator, **Normally on**, **Normally off** and **Auto**.

Auto is default, to change the setting, please follow the steps:



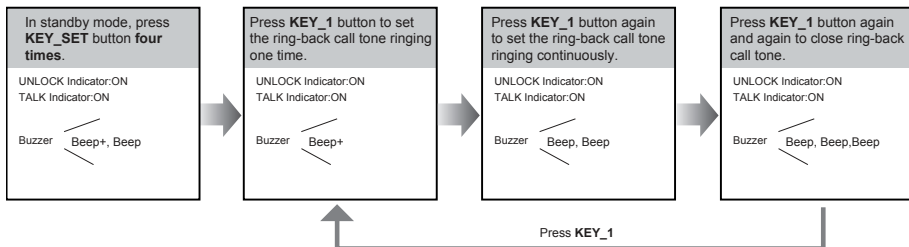
- If setting mode has not been exited, you can change the night view LED illumination mode by pressing KEY4 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button twice to exit out the setting mode manually.

Setting Ring-back Tone

If allow ring-back tone, press the call button to call monitor, a ring-back call tone can be heard from door station.

There are 3 ring-back call tones, **Ringing one time**, **Ringing continuously** and **No ring-back tone**.

Ringing one time is default, to change the setting, please follow the steps:



- If setting mode has not been exited, you can change the ring-back tone by pressing KEY1 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button once to exit out the setting mode manually.

SETUP INSTRUCTIONS

Setting Image Display Mode

Please know that this setting is only effective for monitors which does not support manual operation for pan-tilt.

When the monitor being called

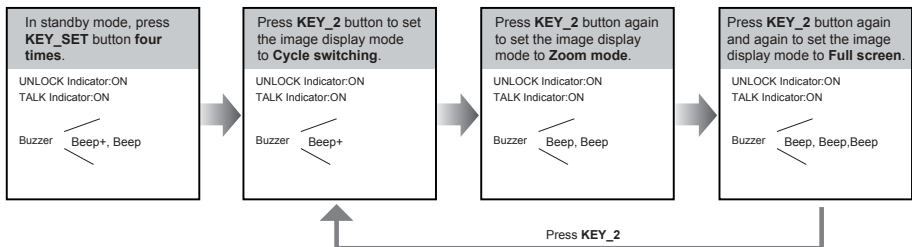
When door station calls monitor, the image will be displayed on screen, there are 3 modes for image displayed, **Alternate switching mode**, **Zoom mode** and **Full screen mode**.

Alternate switching mode: when the monitor being called, switch at regular time(5s) between **Full screen** and **Zoom** image.

Zoom mode: when the monitor being called, the image will be displayed on full screen for 5 seconds, then switch to **Zoom** image.

Full screen mode: when the monitor being called, the image will be always displayed on **Full screen**.

Alternate switching mode is default, to change the setting, please follow the steps:



- If setting mode has not been exited, you can change the image display mode by pressing KEY2 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button once to exit out the setting mode manually.

When answering the call

When answering the call, the image switching reminder can be activated or forbidden.

If set to activated mode, the image switching reminder will be different for different image display mode.

Alternate switching mode: When answering the call, image switching reminder is not effective.

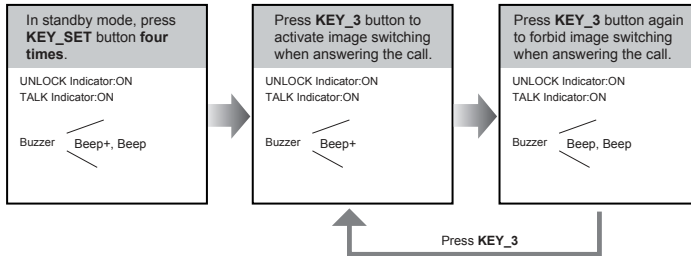
Zoom mode: When answering the call, the image will be displayed on **full screen** for 5 seconds, then switch to **Zoom** image to remind to enter talking status.

SETUP INSTRUCTIONS

Full screen mode: When answering the call, the image will be displayed on **Zoom** mode for 5 seconds, then switch to **Full screen** to remind to enter talking status.

If set to forbidden mode, there is no image switching reminder at any image display mode.

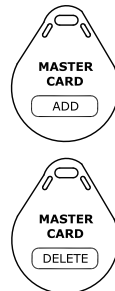
Activated is default, to change the setting, please follow the steps:



- If setting mode has not been exited, you can change the image display mode by pressing KEY3 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step, press **KEY_SET** button once to exit out the setting mode manually.

Registering ID Card

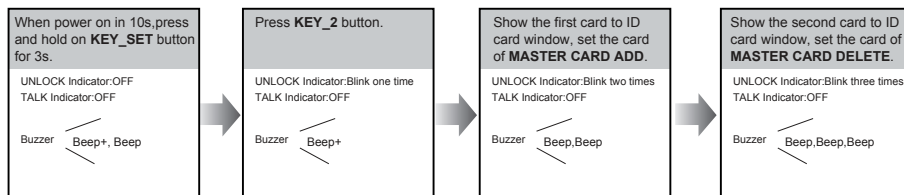
- Up to 320 user cards can be registered by the door station.
- Easy management with LED status and sound hints.
- There are two master cards, one **MASTER CARD ADD** card and one **MASTER CARD DELETE** card, When registered new master cards, the old master cards are invalid automatically.
- Card reading distance is less than 3cm.
- The master cards are necessary when you add or delete user cards. Please keep it well for future use.
- EM card, 125kHz.



Authorizing 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 will be invalid automatically.

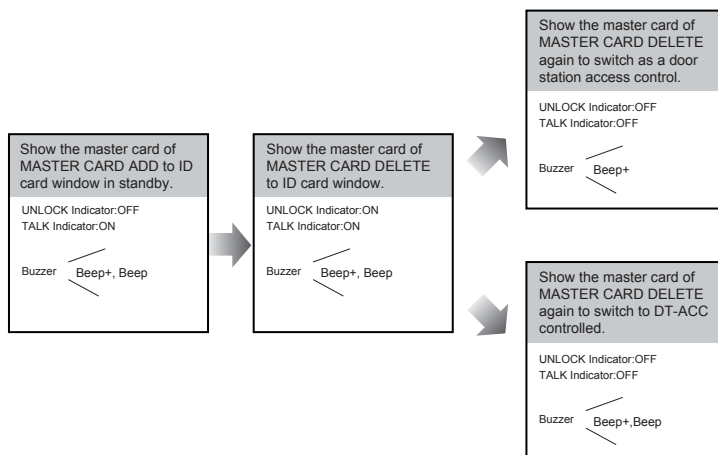
SETUP INSTRUCTIONS



- The **LED_NAME** indicator will always blink until exit out the master card authorized mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- It will exit out setting mode automatically after showing these two cards,the UNLOCK&TALK indicator will be turned off.

Switching Access Control:

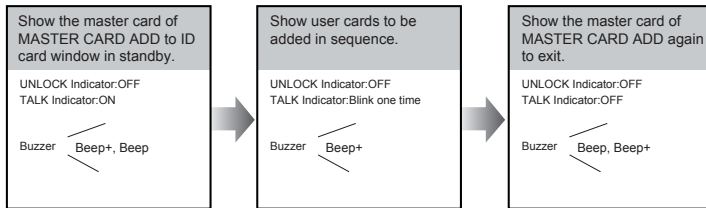
The access can be controlled by door station or DT-ACC,so it's available to switch the access function.



- If without any operation in 10 seconds, it will exit out setting mode automatically.
- If current access is controlled by door station, next access switching setting is controlled by DT-ACC.

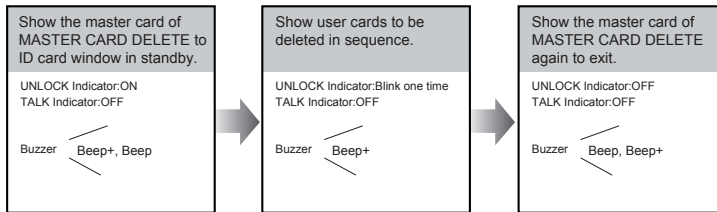
SETUP INSTRUCTIONS

Adding User Cards:



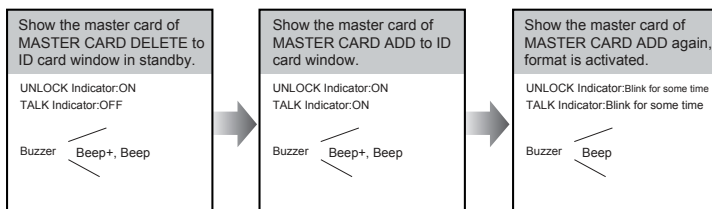
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- To add user card, the access must be controlled by door station.

Deleting User Cards:



- .If without any operation in 10 seconds, it will exit out setting mode automatically.
- To add user card, the access must be controlled by door station.

Initializing Access (delete all user cards):

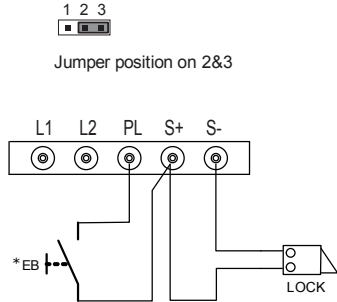


- If without any operation in 10 seconds, it will exit out setting mode automatically.
- To add user card, the access must be controlled by door station.
- At step3, the UNLOCK & TALK indicator will blink all time until formatting is finished.
- When formatting is finished, UNLOCK & TALK indicator will be turned off and sound " Beep+ ", and exit out setting mode automatically.

Connecting Electric Lock

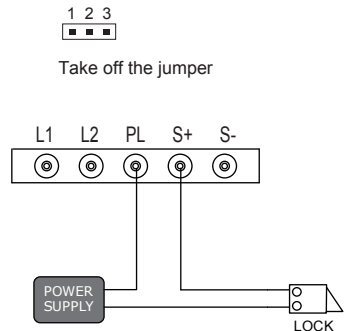
Door Lock Controlled with Internal Power

1. Electronic lock of Power-on-to-unlock type should be used.
2. The door lock is limited to 12V, and holding current must be less than 250mA.
3. The jumper should be placed on position 2 and 3 before connecting.
4. The door lock control is not timed from Exit Button(EB).
5. The **Unlock Mode** must be set to 0 (by default).



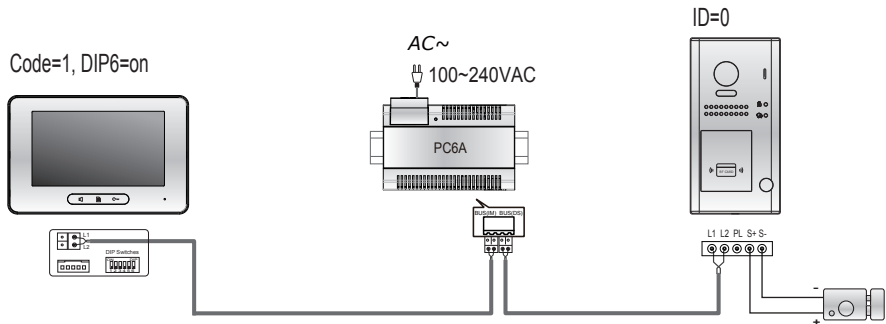
Door Lock Controlled with Dry Contact

1. The external power supply must be used according to the lock.
2. The inside relay contact is restricted to 230Vac 1A or 24Vdc 1A.
3. The jumper must be taken off before connecting.
4. Setup the **Unlock Mode** according to different lock types.
 - Power-on-to-unlock type: Unlock Mode=0 (by default)
 - Power-off-to-unlock type: Unlock Mode=1



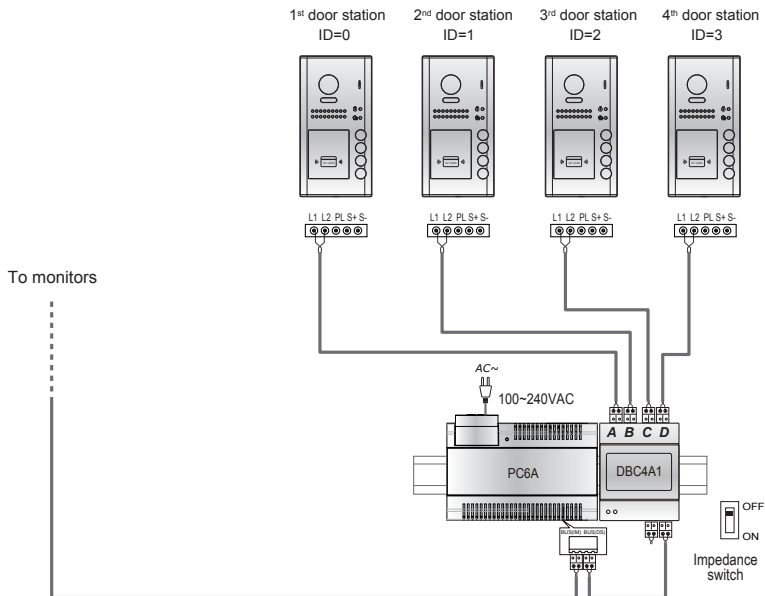
* DT-RLC relay actuator is needed for 2nd lock connection.

Connecting Basic One-to-one



- The door station work in **Standard** mode in this situation. Refer to Page 9 in detail.
- The door station is also compatible with other monitors which are provided by our company.

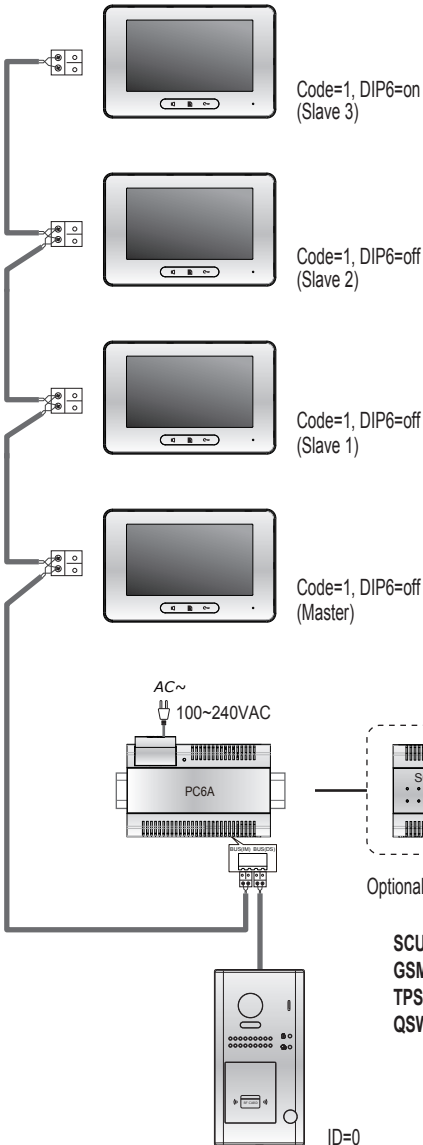
Connecting Multi Door Stations



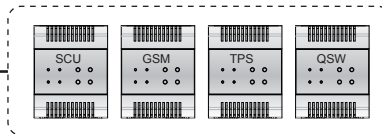
- Max.4 door stations can be connected to the system.
- Ensure to set the correct address for each door station, Refer to Page 8 for more details about the address setting of door stations.

Connecting Multi Monitors

Basic IN-OUT Wiring in Standard Mode

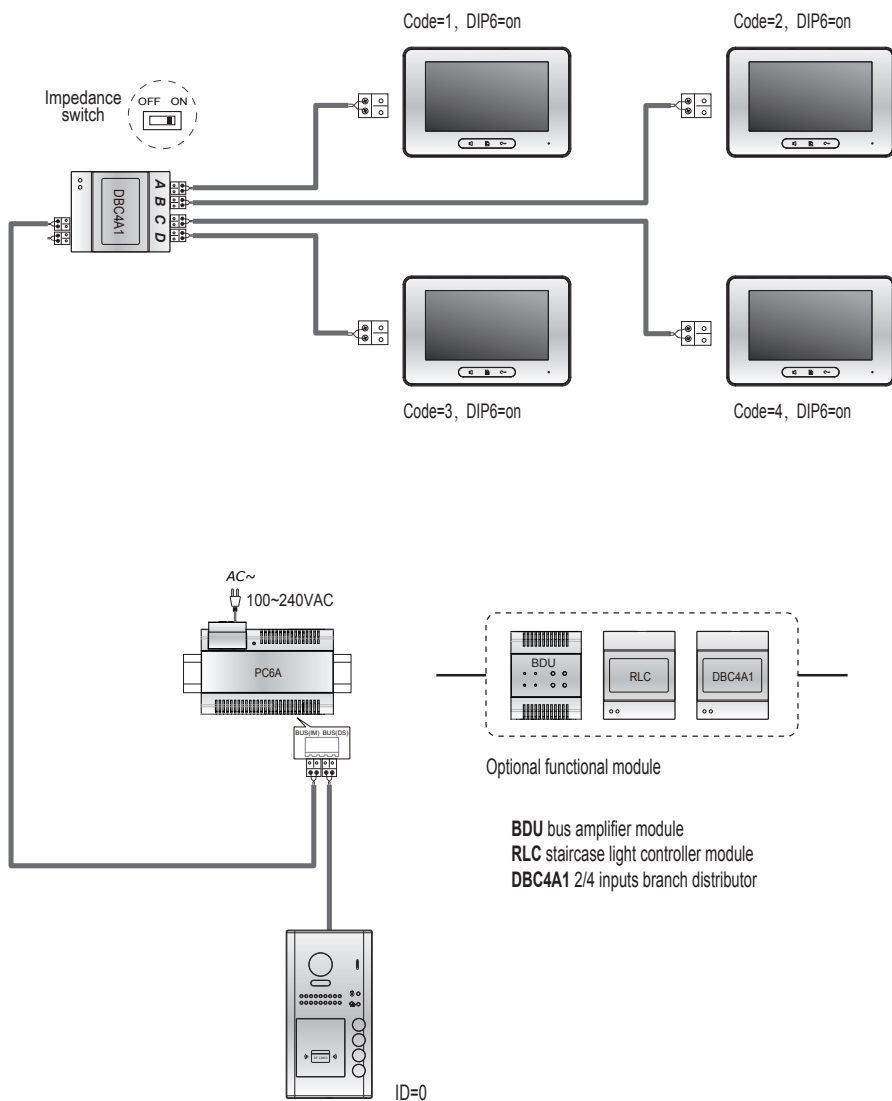


- The door station is also compatible with other monitors which are provided by our company.
- Please set door station into group calling mode if there is more than 4 monitors in villa(Refer to Page 9)
- Distributor is unnecessary in full audio system, and IN-OUT mode is recommended.
- For the last monitor connected to the system, DIP6 should set to **ON**.



SCU camera module(max.4)
GSM module(mobile phone transfer)
TPS module(PBX transfer)
QSW image quad splitter module

Star Topology Wiring With DBC4A1 in Standard Mode



- The door station is also compatible with other monitors which are provided by our company.
- It can be extended 3 slave monitors for each monitor.(Better use with extra distributor for the extension)

APPENDIX

Precautions

- Please clean the unit with soft cotton cloth, don't use the organic impregnant or chemical clean agent. If necessary, please use a little pure water or dilute soap water to clean the dust.
- The unit is weather resistant. However do not spray high pressure water on access control keypad directly. Excessive moisture may cause problems with the unit.
- You must use the right adaptor which is supplied by the manufacture or approved by the manufacture.
- Pay attention to the high voltage inside the products, please refer service only to a trained and qualified professional.

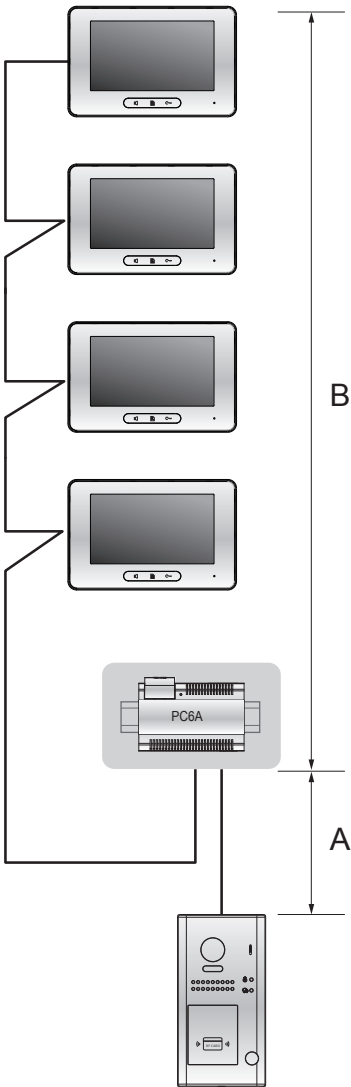
Specification

Power supply:	DC 24V
Power consumption:	Standby 0.8W; Working 3W
Camera lens:	Color CMOS, 2.0 Mega pixel 1/2.7" fisheye camera, 170° wide angle
Lock Power supply:	12Vdc, 280mA(Internal Power);
Number of relay circuits:	2(the second lock need external device to support)
Mounting:	Surface wall-mount / flush mount
Working temperature:	-20°C ~ +55°C
Protection:	IP54
Material:	Zinc alloy panel(surface mounted) Stainless steel panel(flush mounted)
Wiring:	2 wires, non-polarity
Dimension:	176(H)×90(W)×27(D)mm(surface mounted) 220(H)×119(W)×52(D)mm(flush mounted)

Cables and Requirments

The maximum distance of the wiring is limited in the DT system. Using different cables may also affect the maximum distance which the system can reach.

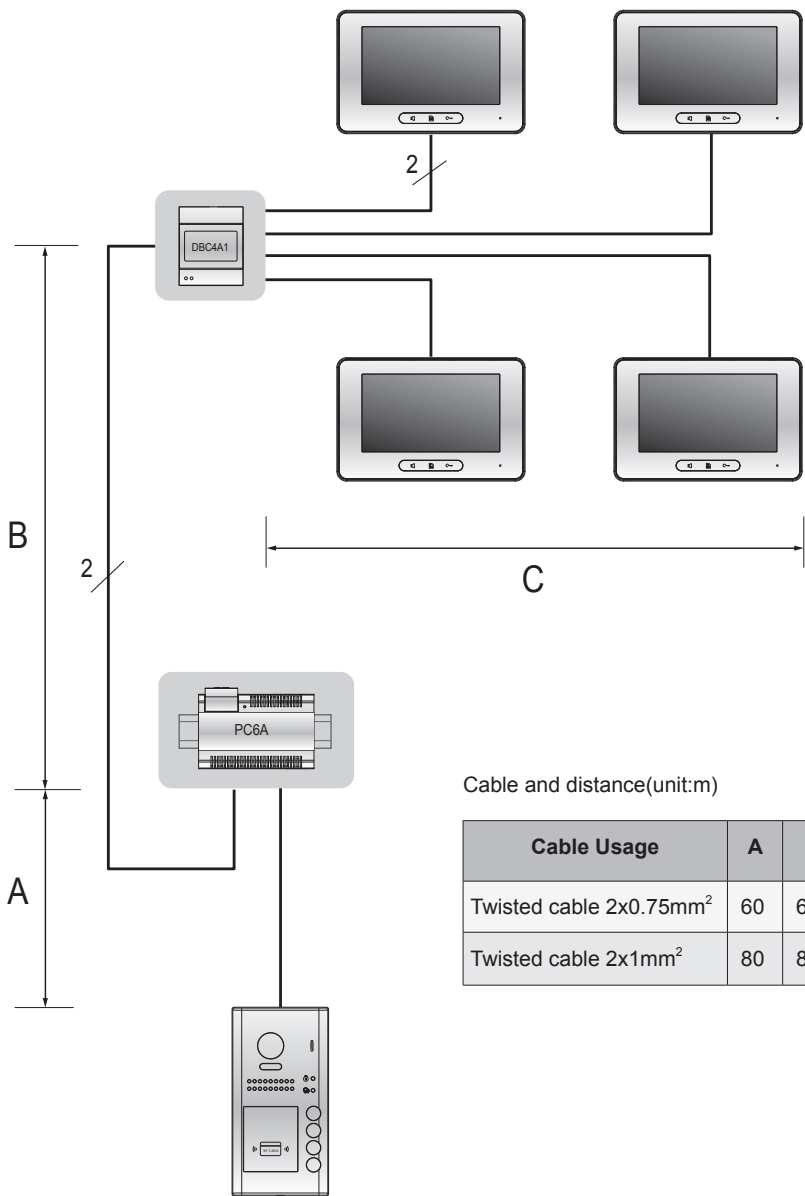
Basic IN-OUT Wiring Mode



Cable and distance(unit:m)

Cable Usage	A	B	B
		≤2 IM	≤16 IM
Twisted cable 2x0.75mm ²	60	100	40
Twisted cable 2x1mm ²	80	120	60

Star Topology Wiring Mode With DBC4A1



Cable and distance(unit:m)

Cable Usage	A	B	C
Twisted cable 2x0.75mm ²	60	60	30
Twisted cable 2x1mm ²	80	80	40

