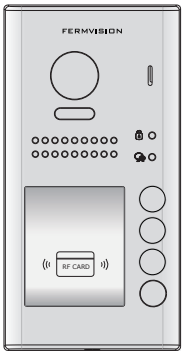
2 WIRE INTERCOM SYSTEM

FVI-7004-V2 KIT

Quick Guide

FVI-7013



FVI-7014-V2

Please read this manual carefully before using the product you purchase, and keep it well for future use.We reserve the right to modify the specification in this manual at any time without notice.

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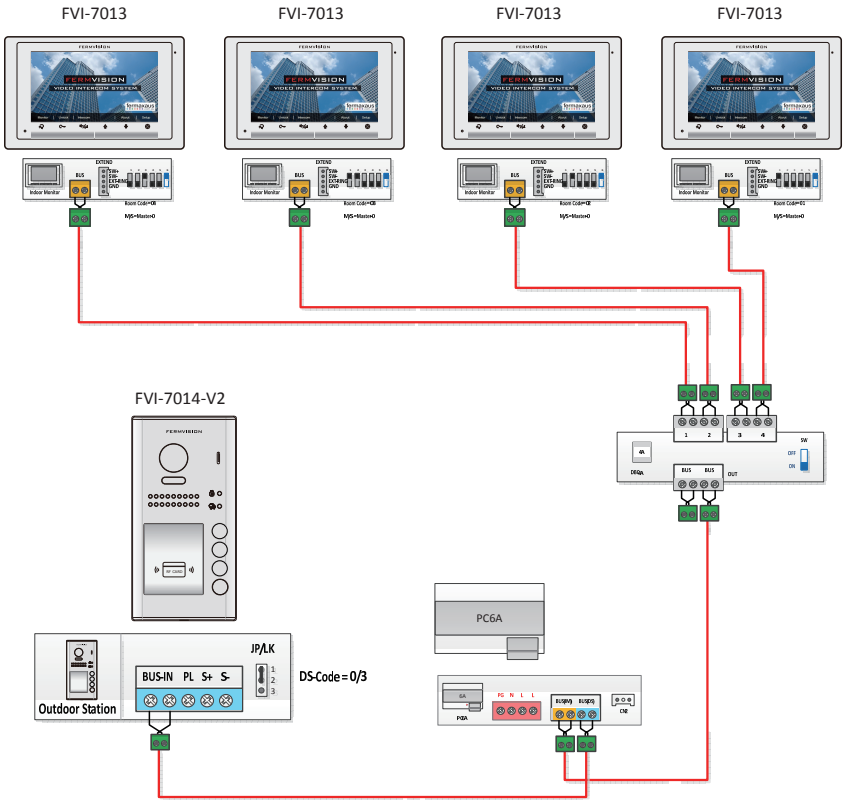
1. Product List and Wiring

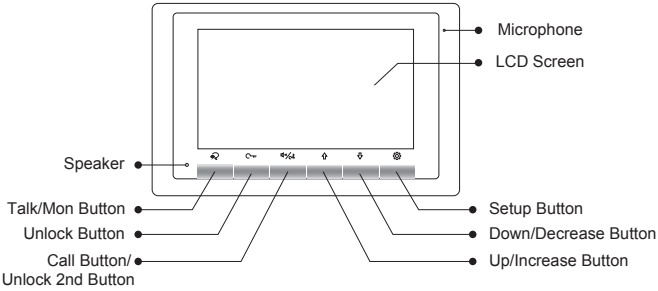
FVI-7004-V2 KIT consists of:

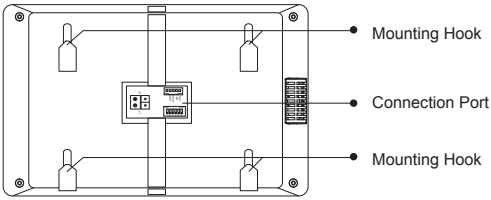
1*Outdoor Station- FVI-7014-V2;
4*Indoor Unit- FVI-7013;
1*4 Branch Controller- FVI-6011DBC4A;
1*Power Supply- FVI-6017PC6
2* Master Cards (Add & Delete)
4* Blue Proximity Cards

1pc FVI-7014-V2 with 4pcs FVI-7013



2. Parts and Functions





Key functions

Microphone	Receive voice from the user.
LCD screen	Display the visitors' image.
Setup button	Press to select the setting item you want.
Down/Decrease button	Press to decrease the value.
Up/Increase button	Press to increase the value.
Speaker	Send out vioce from the visitor.
Talk/Mon button	Press to communicate hands free with visitor; Press to view the outdoor condition in standby mode.
Unlock button	Press to release the door
Call button/Unlock 2nd button	In standby mode, pick up handset, then press Call button to activate the inner call; During calling/talking state, press Unlock 2nd button to release the second door.
Mounting hook	Use to hang up the monitor.
Connection port	Bus terminal.

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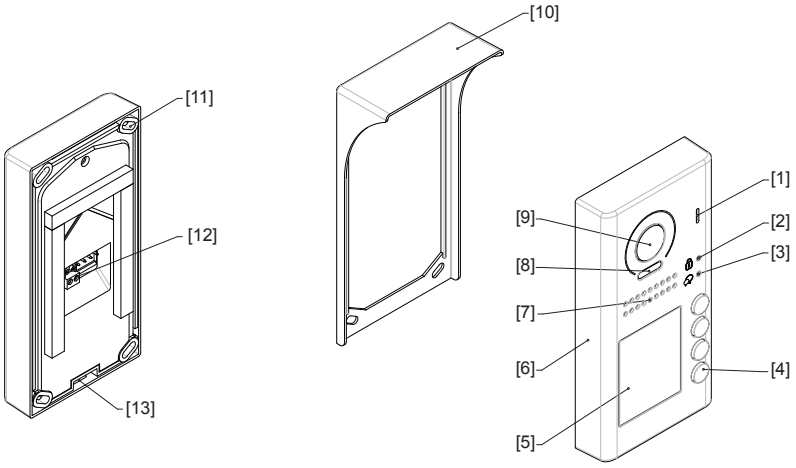
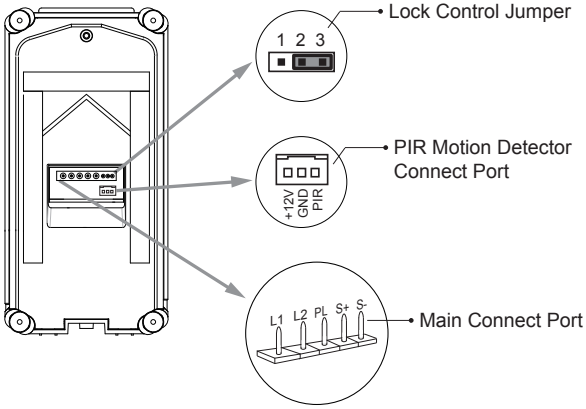
3. Part Names



[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

4. Terminal Description For Outdoor Station



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).

5.Quick Guide

Programming Door Station address (When using more than one door station)

See Figure 1, press KEY_SET button, then press KEY_ X once (where X goes from 1-4), wait 10 seconds or press KEY_SET button four times to save the settings.

E.G.:

For door station 1: KEY-SET, KEY_1, press KEY_SET four times.

For door station 2: KEY-SET, KEY_2, press KEY_SET four times.

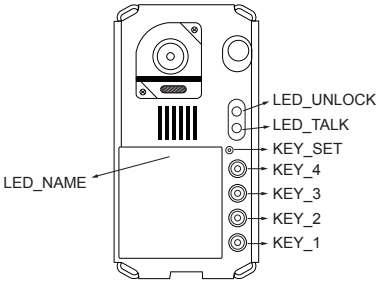


Figure 1

NSW U1, 37-39 Green St, Banksmeadow, NSW. 2019 p. 61 2 9700 1700 f. 61 2 9700 1955 sales@fermaxaus.com.au
QLD U11, 8 Fortitude Cres, Burleigh Heads, QLD. 4220 p. 61 7 5520 2266 f. 61 7 5520 4591 qld@fermaxaus.com.au
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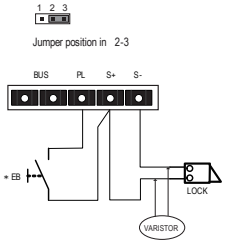
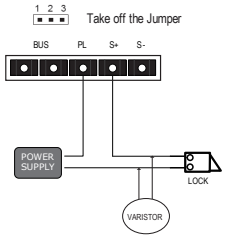
Electric Lock Connection

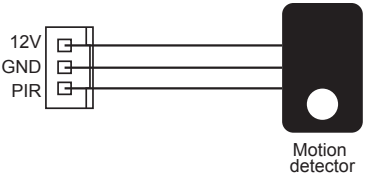
	Door lock controlled with internal power Power on to unlock. (12V output, up to 250mA). EB: Exit button (Door lock control is not timed by the exit button)
	Door lock controlled with dry contact The inside relay contact is restricted to AC or DC 24V/3A. The jumper must be taken off before connecting Note: It is advisable to always use a separate power supply for the electric latch, as well as placing a varistor at both terminals of the electric latch. EB: Exit button (Door lock control is not timed by the exit button)

6.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.



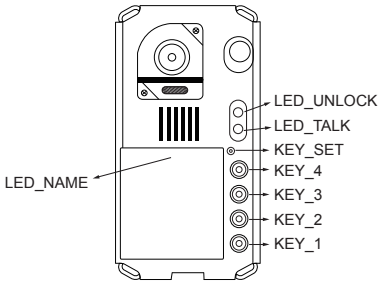
* Please contact with supplier for more details about detector connection.

7.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 the unlock mode	0:opened/1:closed	0:opened
3	Setting the unlock time	01 to 99 seconds	1 seconds
4	Setting the nameplate illumination mode	On/Off/Auto	On
5	Setting night view LED illumination mode	On/Off/Auto	Auto
6	Setting ring-back tone	Ringing one time Ring continuously No ring-back tone	Ringing one time

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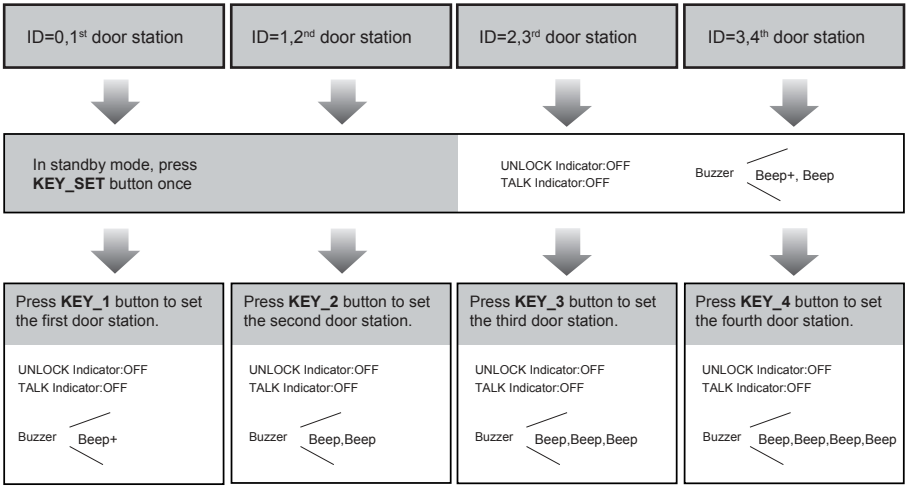
8.Setting Door Station Address

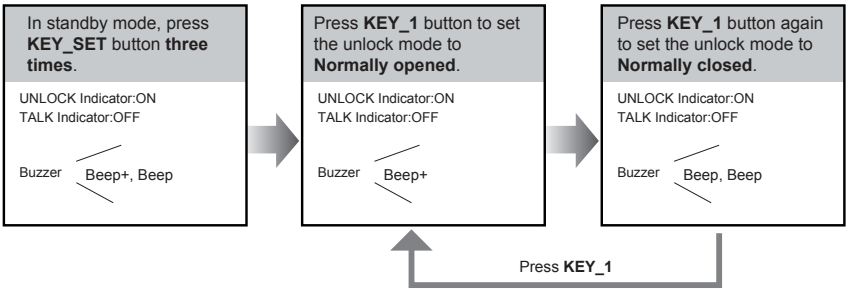
Total 4 addresses can be configured. It can be modified either before or after installation.
0 is default, to change the setting, please follow the steps:



- 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.

9.Setting Unlock Mode

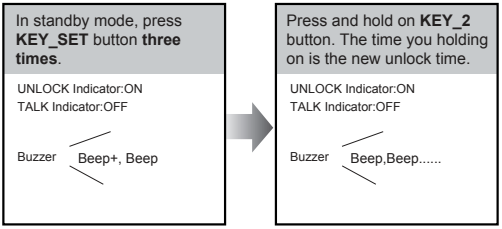
There are 2 unlock modes, Normally opened and Normally closed.
Normally opened is default, to change the setting, please follow the steps:



- 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.

10.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.

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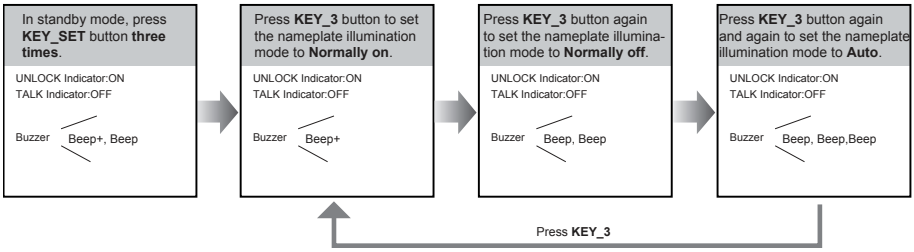
11.Setting Nameplate Illumination Mode

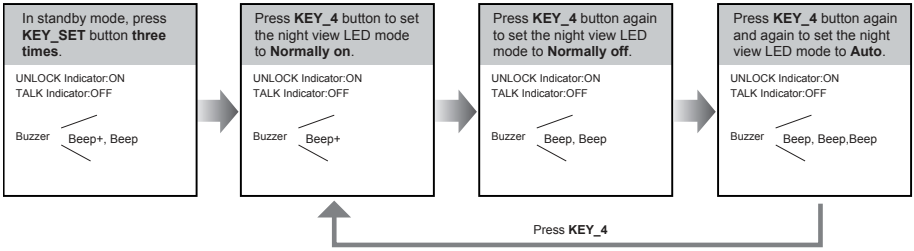
There are 3 illumination modes for nameplate indicator, Normally on,Normally off and Auto. Normally on is default, to change the setting, please follow the steps:



• 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.

12.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:



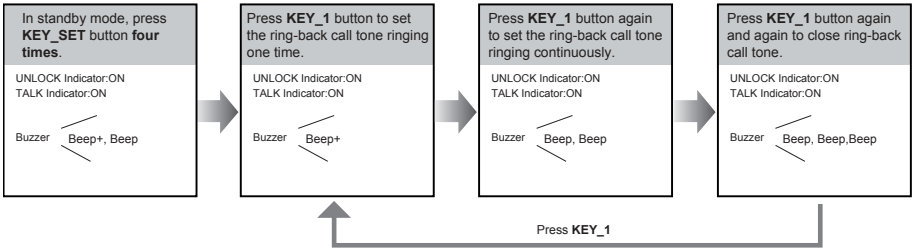
• If setting mode has not been exited, you can change the night view LED illumination mode by pressing KEY4 circularly.
• The LED_NAME indicator will blink all the time until exit out the setting mode.
• If without any operation in 10 seconds, it will exit out setting mode automatically.
• In this step,press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

13.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.

14.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.

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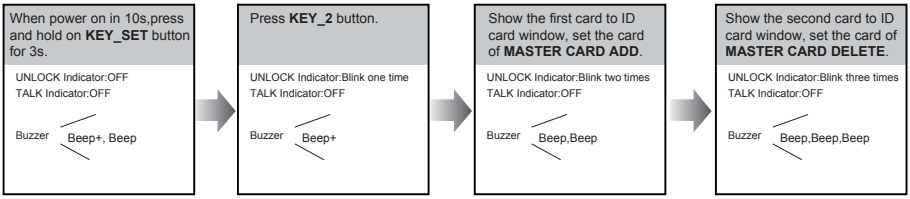
Authorizing master cards:

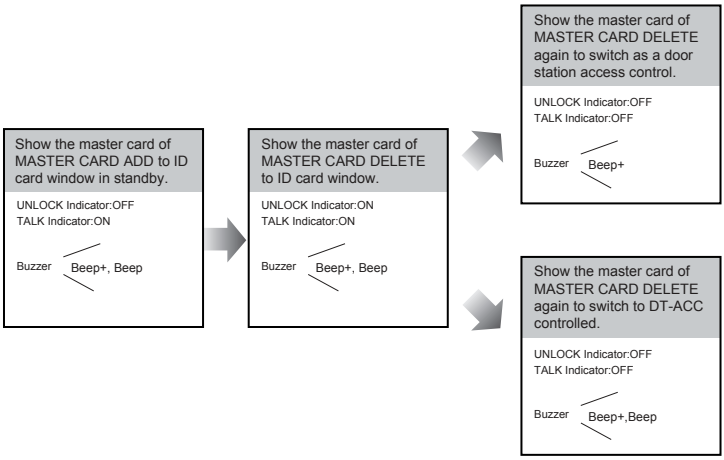
By default,there are two master cards marked **MASTER CARD ADD** and **MASTER CARD DELETE** ,but you should know that the master card can be authorized by users at any time. That means any two user cards can be authorized to master cards,When registered new master cards, the old master cards will be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



- 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.

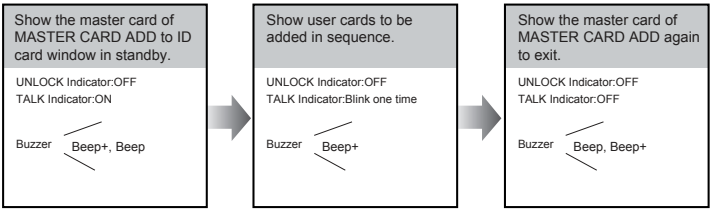
Switching Access Control:

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



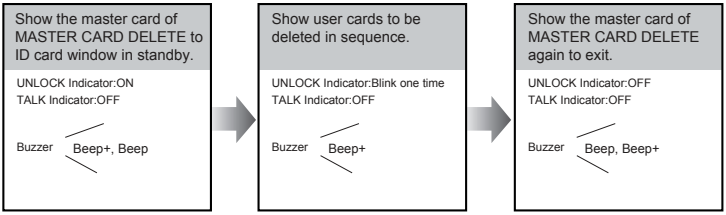
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- If current access is controlled by door station, next access switching setting is controlled by DT-ACC.

Adding User Cards:



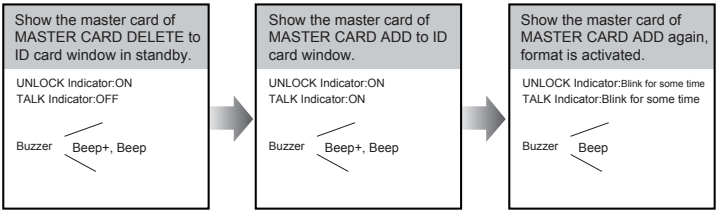
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- To add user card, the access must be controlled by door station.

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.

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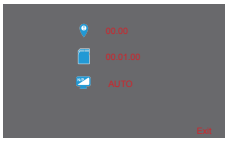
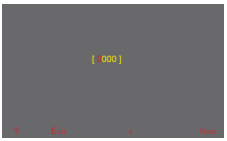
15. Indoor Unit Parameter Setting

How to enter the installation setting page

1.Press **About** button on main menu page.



2.Press and hold UNLOCK button for 3s.

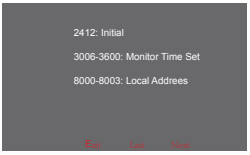


3.Use ⇧ / ⇩ button to increase / decrease the value; use ⚙ button to select next digital.

How to know the machine code

When you want to set the monitor parameter, you must to know the setting code.

Press **?** button on this page.

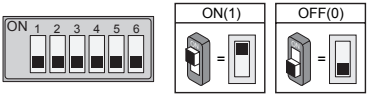


Use ⇧ / ⇩ button to search the code you want.

DIP Switches Settings Of Indoor Unit

In the DT system,every apartment must have a unique identification called User Code. The DIP swiches are used to configure the User Code for each Monitor.

- Bit-1 to Bit-5 are used to User Code setting. The value is from 1 to 32, which have 32 different codes for 32 apartments.
- When multi Monitors are installed in one apartment, these Monitors have to use the same User Code setting, and the Master/Slave mode should be set on the Monitor.
- Bit-6 is line terminal switch, which have to be set to ON if the Monitor is in the end of the line(bus), otherwise set to OFF. The end of the line is terminal that no other section will start from it.



Bit-6 line terminal setting:

Bit state	Setting	Bit state	Setting
	Monitor not at the end of the line.		Monitor at the end of the line.

Bit state	User Code	Bit state	User Code	Bit state	User Code
	Code=1		Code=12		Code=23
	Code=2		Code=13		Code=24
	Code=3		Code=14		Code=25
	Code=4		Code=15		Code=26
	Code=5		Code=16		Code=27
	Code=6		Code=17		Code=28
	Code=7		Code=18		Code=29
	Code=8		Code=19		Code=30
	Code=9		Code=20		Code=31
	Code=10		Code=21		Code=32
	Code=11		Code=22		

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16. Basic Door Release Operation

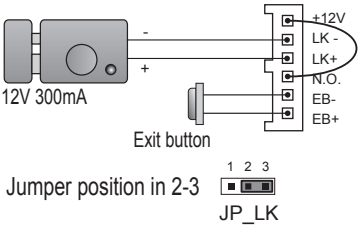
1. Press **CALL** button on outdoor station, the Monitor rings, at the same time, the screen displays the visitors' image.
2. Press **TALK/MON** Button on monitor, you can communicate hands free with the visitor for 90 seconds. After finishing communication, press **TALK/MON** button again to end the communication. If nobody answers the phone, the screen will be turned off automatically after 40 seconds.
3. During talking state, Press **UNLOCK** Button to open the door for the visitor.(if two locks are connected to door camera, press **unlock 2nd** Button to release the second lock)
4. When the monitor is in standby mode, press **TALK/MON** Button, or press **Monitor** button on main menu, the screen can display the view of outside. At this time, if multi door stations are installed, you can use ⇧ / ⇩ Button to switch the door station or CCTV camera you want.

17. Electric Lock Connection

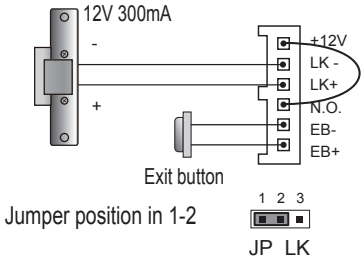
1) Door Lock Controlled with Internal Power

1. The door lock is limited to 12Vdc, and holding current must be less than 250mA when using internal power supply mode.
2. The **Unlock Mode Parameter** must be set to 0 (by default).
3. Jumper set to 1-2 position for power-off-to-unlock safety type(*Normally closed mode*); set to 2-3 position for power-on-to -unlock type(*Normally open mode*).
4. If different unlocking time is needed,change the unlock time on door station,detail information refer to DT system technical guide .

Power-on-to-Unlock type:



Power-off-to-Unlock type:



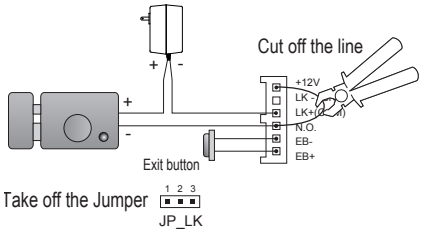
2) Door Lock Controlled with External Power

1. The external power supply must be used according to the lock.
2. The jumper must be taken off before connecting.
3. Setup the **Unlock Mode Parameter** for different lock types

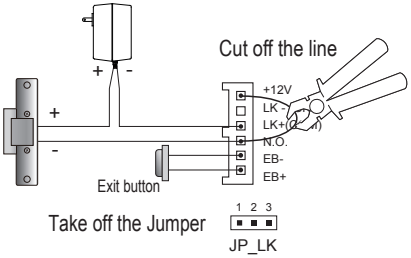
- Power-on-to-unlock type:Unlock Mode=0(by default)
- Power-off-to-unlock type:Unlock Mode=1

4. If different unlocking time is needed, change the unlock time on door station,detail information refer to DT system technical guide .

Power-on-to-Unlock type:



Power-off-to-Unlock type:



10. Specification

Power supply: 26Vdc

Power Consumption Of Outdoor Station:
0.8W in standby;
3W in working.

Power Consumption Of Indoor Unit:
0.2W in standby;
6.2W in working.

Unlock Power output: 12Vdc,250mA

Unlock timing: 1~99s

Working temperature: - 20ºC ~ +55ºC

Wiring: 2 wire, non-polarity

Dimension:
140(H)×220(W)×17.5(D)mm(Indoor Unit)
176(H)×90(W)×27(D)mm(Door Station)

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