2 WIRE INTERCOM SYSTEM

DK43311-41S KIT
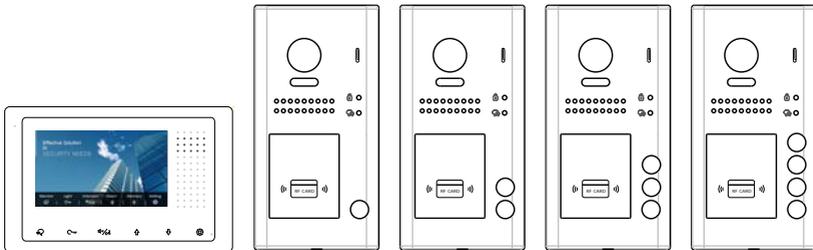
Quick Guide

1. Product Lists Of Kits

Kit DK43311/ID consists of

1* Outdoor Station- DT607C/ID-S1

1* Indoor Unit- DT433

1* Power Supply with UL approved- DR-60-24

1* Power Separator- DT-DPS-DR

1* DIN Rail

1* Relay- DS-ERL

1* AWG18 Power Cable

2* Management Cards- Add Card & Delete Card

5* Proximity Cards

Kit DK43321/ID consists of

1* Outdoor Station- DT607C/ID-S1

2* Indoor Unit- DT433

1* Power Supply with UL approved- DR-60-24

1* Power Separator- DT-DPS-DR

1* DIN Rail

1* Relay- DS-ERL

1* AWG18 Power Cable

2* Management Cards- Add Card & Delete Card

5* Proximity Cards

Kit DK43322/ID consists of

1* Outdoor Station- DT607C/ID-S2

2* Indoor Unit- DT433

1* Power Supply with UL approved- DR-60-24

1* Power Separator- DT-DPS-DR

1* DIN Rail

1* Relay- DS-ERL

1* AWG18 Power Cable

2* Management Cards- Add Card & Delete Card

5* Proximity Cards

Kit DK43331S/ID consists of

1* Outdoor Station- DT607C/ID-S3
3* Indoor Unit- DT433
1* Power Supply with UL approved- DR-60-24
1* Distributor DBC4A1
1* Power Separator- DT-DPS-DR
1* DIN Rail
1* Relay- DS-ERL
1* AWG18 Power Cable
2* Management Cards- Add Card & Delete Card
6* Proximity Cards

Kit DK43341S/ID consists of

1* Outdoor Station- DT607C/ID-S4
4* Indoor Unit- DT433
1* Power Supply with UL approved- DR-60-24
1* Distributor DBC4A1
1* Power Separator- DT-DPS-DR
1* DIN Rail
1* Relay- DS-ERL
1* AWG18 Power Cable
2* Management Cards- Add Card & Delete Card
8* Proximity Cards

2. System Connection

Notes:

[1] DT607C/ID-S1 (One button).

The code address of indoor units start at 0-15 (switch all DOWN).

[2] DT607C/ID-S2 (Two buttons)

[3] DT607C/ID-S3 (Three buttons)

[4] DT607C/ID-S4 (Four buttons)

For the first button (from bottom to top), the code address of indoor units start at 0-15 (switch all DOWN).

For the second button, the code address of indoor units start at 16-31 (switch 5 ON).

[3] When use IN-OUT wiring without any distributor, Switch 6 ON for last monitor on the line.

When use Star wiring with distributor (Home run), Switch 6 ON for every monitor.

One Apartment Connection (IN-OUT wiring)

Two Apartment Connection (IN-OUT wiring)

Code=16, DIP6=on

ID=0

Code=00, DIP6=off

HDR-60-24

DPS

AC~

L1 L2 PL S+ S-
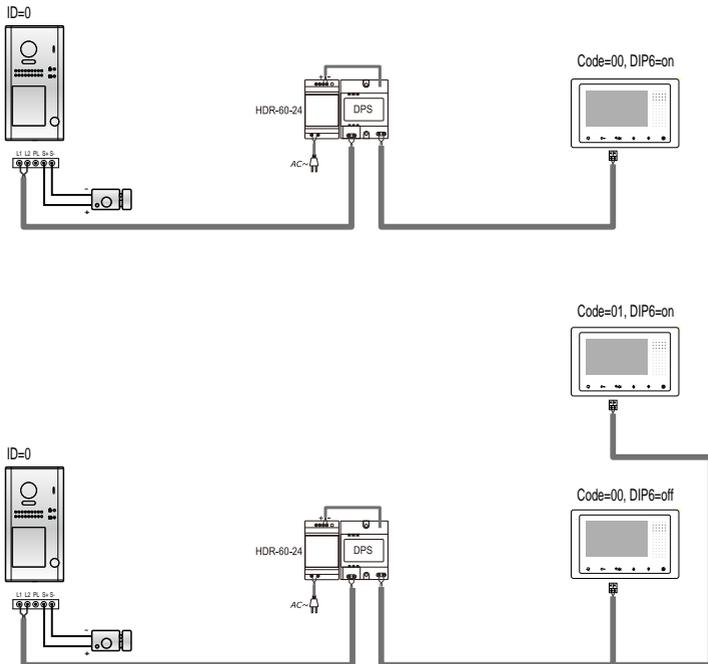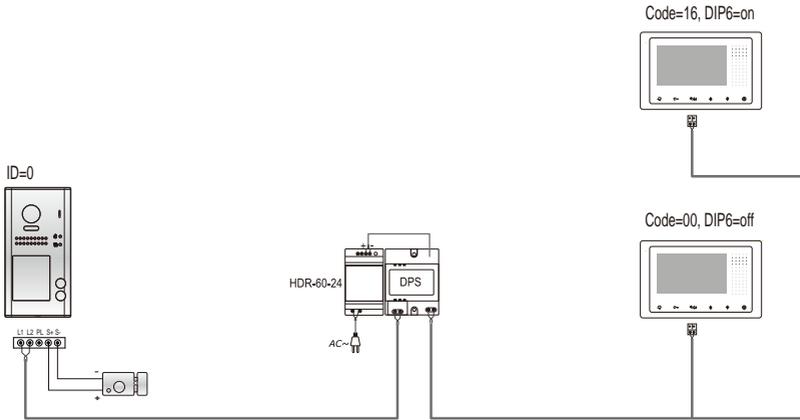
Connecting Multi Indoor Monitors (IN-OUT wiring)

Code=31, DIP6=on   Code=30, DIP6=off   Code=1, DIP6=off   Code=0, DIP6=off

ID=0

HDR-60-24   DPS

AC~

L1 L2 PL S+ S-
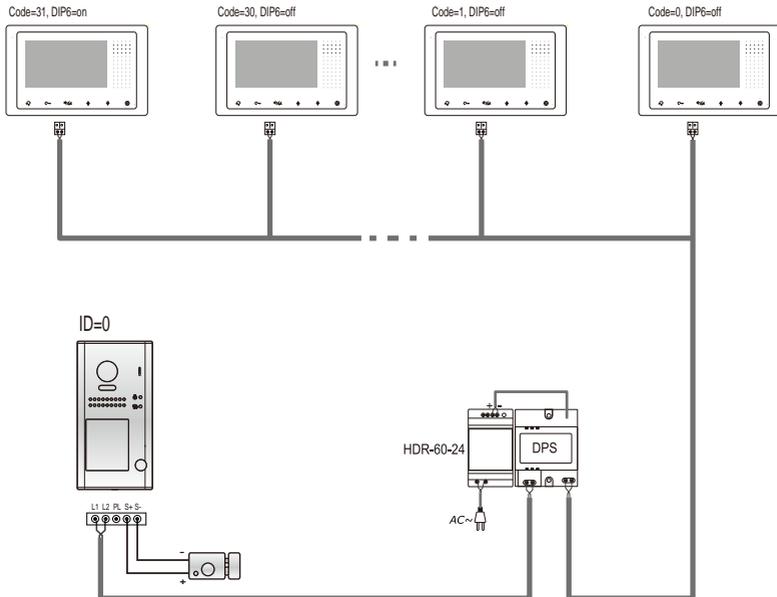
Connecting Multi Indoor Monitors

It can be star wiring (home run with distributor). Please note the distributor DBC4A(1) is not included in the kits.

Code=00, DIP6=on   Code=01, DIP6=on   Code=16, DIP6=on   Code=17, DIP6=on

ID=0

HDR-60-24   DPS   DBC4A

A B C D

Impedance switch OFF ON

L1 L2 PL S+ S-

AC~
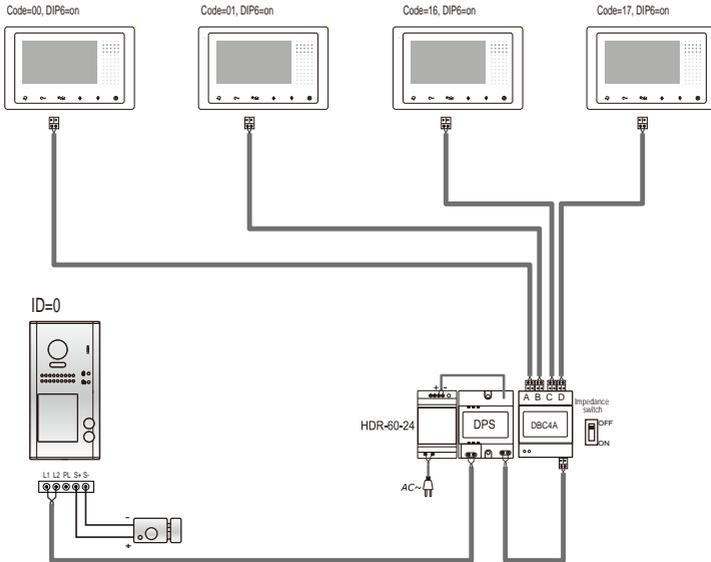
Connecting Multi Door Stations

1st door station ID=0   2nd door station ID=1   3rd door station ID=2   4th door station ID=3

Monitors

L1 L2 PL S+ S-   L1 L2 PL S+ S-   L1 L2 PL S+ S-   L1 L2 PL S+ S-

Impedance switch OFF ON

A B C D

DBC4A1   HDR-60-24   DPS

AC~
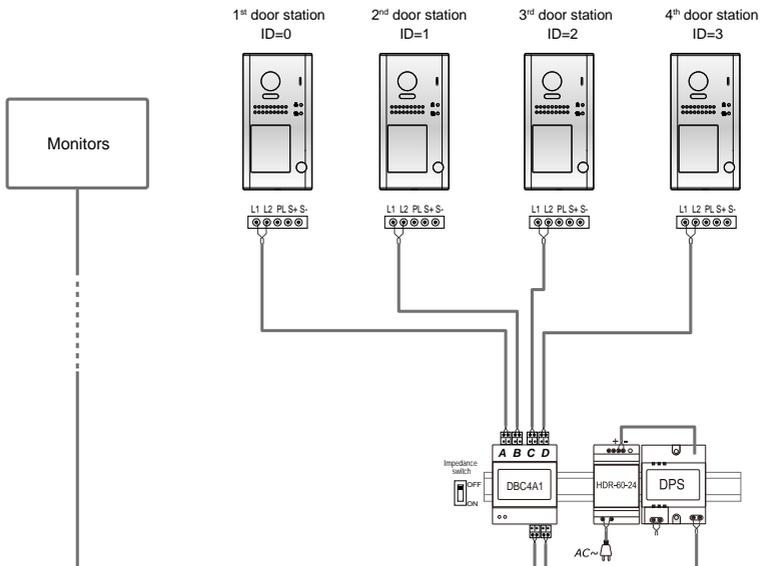
3. Parts and Functions
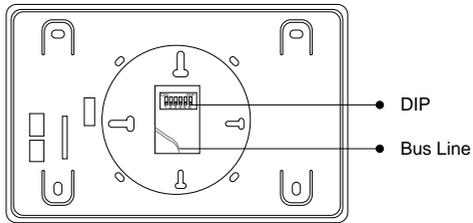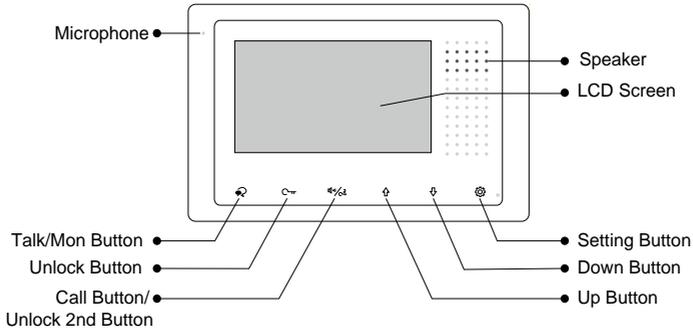
Key functions

Microphone	Receive voice from the user.
Speaker	Send out vioce from the visitor.
LCD screen	Display the visitors' image.
Setting button	Press to select the setting item you want.
Down button	Press to decrease the value.
Up button	Press to increase the value.
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.
DIP	Setting the monitor's address.
Bus line	Connect power supply.

Front panel for outdoor station
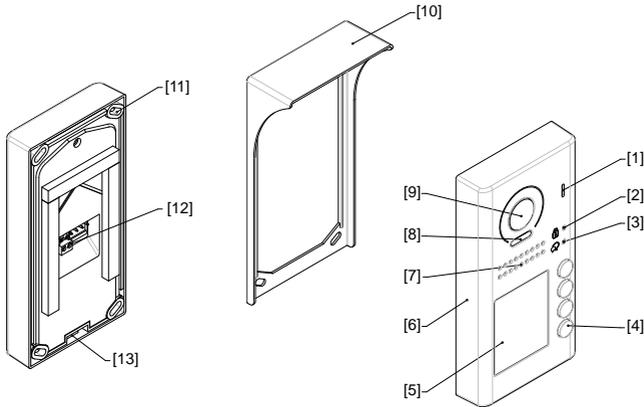
[1] Microphone

[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).
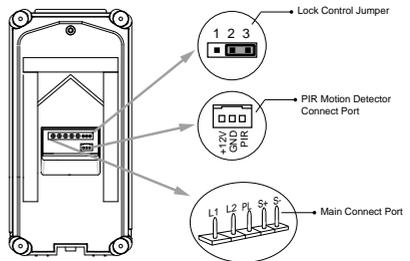
Note: Must be less than 200mA, please always use DS-ERL with all outdoor station. See page 14 for instruction.

5. Functions Setting Up Of Outdoor Station

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.
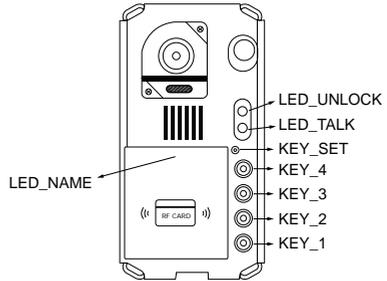

6. Settings Address Of Outdoor Station

Factory default set at 0 1st station.

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:

| ID=0,1st door station	ID=1,2nd door station	ID=2,3rd door station	ID=3,4th door station
In standby mode, press **KEY_SET** button once		UNLOCK Indicator:OFF TALK Indicator:OFF	Buzzer Beep+, Beep
Press **KEY_1** button to set the first door station. UNLOCK Indicator:OFF TALK Indicator:OFF Buzzer Beep+	Press **KEY_2** button to set the second door station. UNLOCK Indicator:OFF TALK Indicator:OFF Buzzer Beep,Beep	Press **KEY_3** button to set the third door station. UNLOCK Indicator:OFF TALK Indicator:OFF Buzzer Beep,Beep,Beep	Press **KEY_4** button to set the fourth door station. UNLOCK Indicator:OFF TALK Indicator:OFF Buzzer Beep,Beep,Beep,Beep

- 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.

7. Setting Unlock Mode For Outdoor Station

There are 2 unlock modes, **Normally opened (Factory default)** and **Normally closed**.

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

| In standby mode, press **KEY_SET** button **three times**.	Press **KEY_1** button to set the unlock mode to **Normally opened**.	Press **KEY_1** button again to set the unlock mode to **Normally closed**.
UNLOCK Indicator:ON	UNLOCK Indicator:ON	UNLOCK Indicator:ON
TALK Indicator:OFF	TALK Indicator:OFF	TALK Indicator:OFF
Buzzer Beep+, Beep	Buzzer Beep+	Buzzer Beep, Beep

Press **KEY_1**
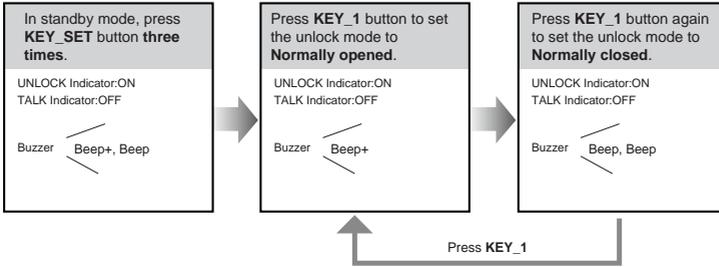
- If setting mode has not been exited, you can change the unlock mode by pressing KEY1 circularly.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step,press **KEY_SET** button twice to exit out the setting mode manually.

8. Setting Unlock Time For Outdoor Station

By default, the unlock time is 5 seconds, but it can be changed,the setting range is 1s~99s.

Follow the steps:

| In standby mode, press **KEY_SET** button **three times**.	Press and hold on **KEY_2** button. The time you holding on is the new unlock time.
UNLOCK Indicator:ON	UNLOCK Indicator:ON
TALK Indicator:OFF	TALK Indicator:OFF
Buzzer Beep+, Beep	Buzzer Beep,Beep......
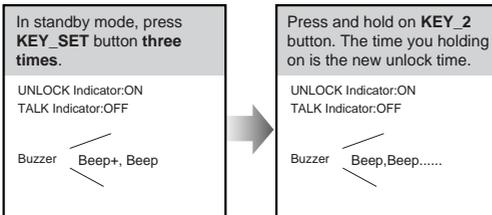
- When entering time delayed setting, the buzzer sound one time every second.
- The **LED_NAME** indicator will blink all the time until exit out the setting mode.
- If without any operation in 10 seconds, it will exit out setting mode automatically.
- In this step,press **KEY_SET** button twice to exit out the setting mode manually.

Check the Monitor Manual or Quick Guide for more information regarding Unlock Time settings.

9. 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.
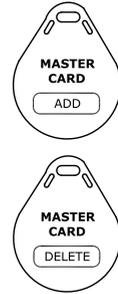
Authorizing master cards:

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.

| When power on in 10s,press and hold on KEY_SET button for 3s.

UNLOCK Indicator:OFF
TALK Indicator:OFF

Buzzer   Beep+, Beep | Press KEY_2 button.

UNLOCK Indicator:Blink one time
TALK Indicator:OFF

Buzzer   Beep+ | Show the first card to ID card window, set the card of MASTER CARD ADD.

UNLOCK Indicator:Blink two times
TALK Indicator:OFF

Buzzer   Beep,Beep | Show the second card to ID card window, set the card of MASTER CARD DELETE.

UNLOCK Indicator:Blink three times
TALK Indicator:OFF

Buzzer   Beep,Beep,Beep |

· 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.

Show the master card of MASTER CARD ADD to ID card window in standby. UNLOCK Indicator:OFF TALK Indicator:ON Buzzer Beep+, Beep	Show the master card of MASTER CARD DELETE to ID card window. UNLOCK Indicator:ON TALK Indicator:ON Buzzer Beep+, Beep

Show the master card of MASTER CARD DELETE again to switch as a door station access control.

UNLOCK Indicator:OFF
TALK Indicator:OFF

Buzzer   Beep+

Show the master card of MASTER CARD DELETE again to switch to DT-ACC controlled.

UNLOCK Indicator:OFF
TALK Indicator:OFF

Buzzer   Beep+,Beep

• 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:
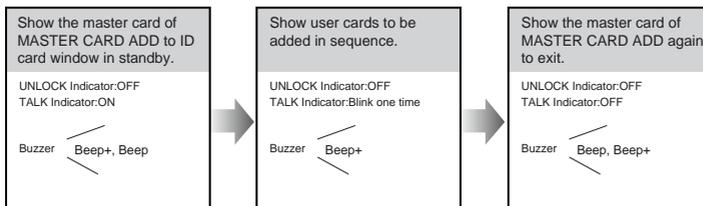
|		
Show the master card of MASTER CARD ADD to ID card window in standby. UNLOCK Indicator:OFF TALK Indicator:ON Buzzer Beep+, Beep	Show user cards to be added in sequence. UNLOCK Indicator:OFF TALK Indicator:Blink one time Buzzer Beep+	Show the master card of MASTER CARD ADD again to exit. UNLOCK Indicator:OFF TALK Indicator:OFF Buzzer Beep, Beep+

• 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:
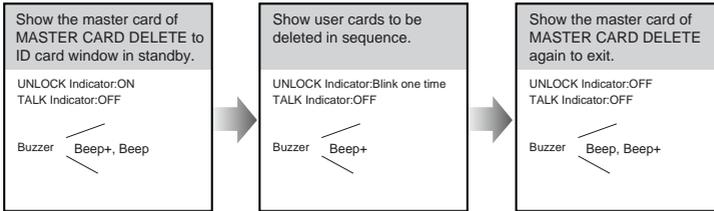
Show the master card of MASTER CARD DELETE to ID card window in standby.	Show user cards to be deleted in sequence.	Show the master card of MASTER CARD DELETE again to exit.
UNLOCK Indicator:ON TALK Indicator:OFF	UNLOCK Indicator:Blink one time TALK Indicator:OFF	UNLOCK Indicator:OFF TALK Indicator:OFF
Buzzer Beep+, Beep	Buzzer Beep+	Buzzer Beep, Beep+

• .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):
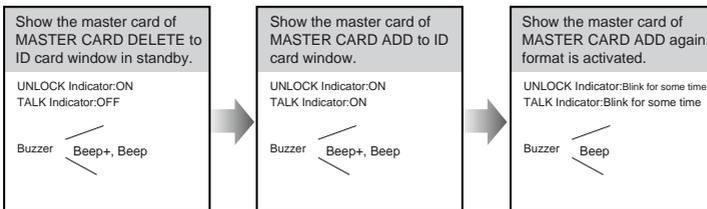
Show the master card of MASTER CARD DELETE to ID card window in standby.	Show the master card of MASTER CARD ADD to ID card window.	Show the master card of MASTER CARD ADD again, format is activated.
UNLOCK Indicator:ON TALK Indicator:OFF	UNLOCK Indicator:ON TALK Indicator:ON	UNLOCK Indicator:Blink for some time TALK Indicator:Blink for some time
Buzzer Beep+, Beep	Buzzer Beep+, Beep	Buzzer Beep

• 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.

10. Indoor Unit Parameter Setting

How to enter the installation setting page
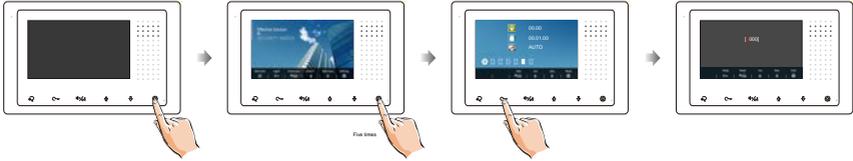
1.Press ⚙ **Setting** button in standby mode.

2.Press ⚙ **Setting** button five times.

3.Press and hold ◠ **Unlock** button for 3s.

4.Use ⬆/⬇ button to increase / decrease the value; use 🔊 button to select next digital.

*Note: Press and hold ⚙ **Setting** button for 3s on panel in standby mode to enter the installation setting page in shortcut.

How to know the machine code

When you want to set the monitor parameter, you must to know the setting code.
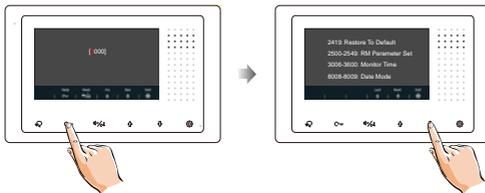
1.Press ◠ **Unlock(Help)** button in installation setting page.

4.Use ⬆/⬇ button to search the code you want.

DIP Switches Settings Of Indoor Unit

The DIP switches are used to set the user code for each monitor.Total 6 bits can be config-ured.

- Bit-1 to Bit-5 are used for user code setting. The value range is from 0 to 31, which have 32 different codes for 32 apartments.

- When multi monitors need to be installed in one apartment, these monitors should use the same user code, and the master/slave mode should be set on the monitor.

- Bit-6 is bus line terminal switch, which should be set to "ON" if the monitor is at the end of bus line, otherwise be set to "OFF".
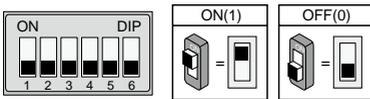
Bit-6 switch setting

Bit state	Setting	Bit state	Setting
	When monitor is not at the end of bus line.		When monitor is at the end of bus line.

ON   DIP
1 2 3 4 5 6

ON(1)   =

OFF(0) =

ID0=ID32 ID1 ID2 ID3 ID4 ID5 ID6 ID7

ID8 ID9 ID10 ID11 ID12 ID13 ID14 ID15

ID16 ID17 ID18 ID19 ID20 ID21 ID22 ID23

ID24 ID25 ID26 ID27 ID28 ID29 ID30 ID31
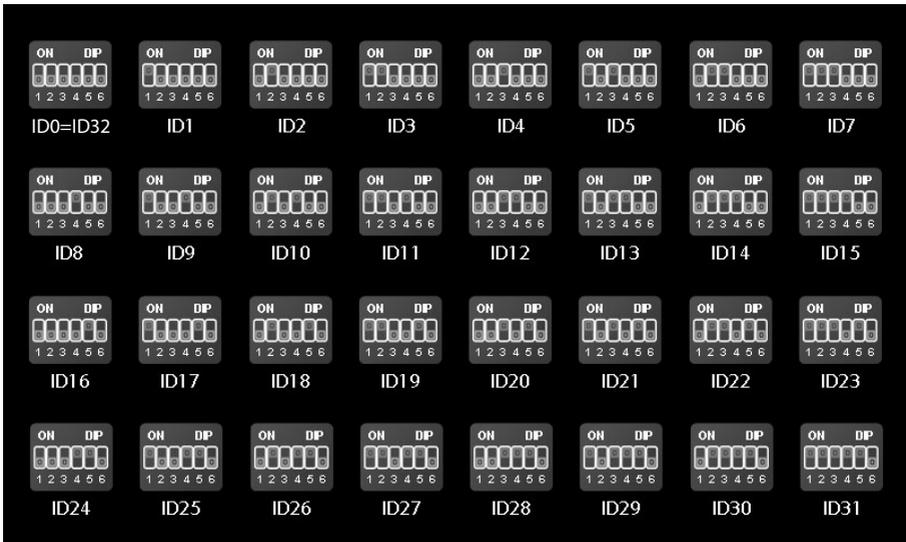
11. Answering a Call
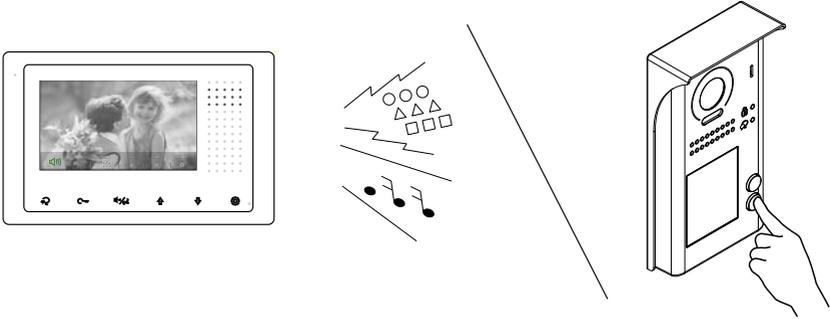
When there is a call from a video door station.The call tone sounds, an image will be displayed on the screen.

Press ✐ **TALK/MON** button on the panel, begin communicating hands free with the visitor for 90 seconds.

While communicating with the visitor, unlock the door, adjust volume / brightness / contrast are available. More details, please refer to the user manual of indoor monitor.

Note: If nobody answers the phone, the screen will be turned off automatically after 40 seconds.

12. Electric Lock Connection (NOT RECOMMENDED). See Page 14.

Note: NOT RECOMMENDED unless the door lock is less than 250mA. Please see Part 13 on Page 14 for HOOKING UP A DOOR RELEASE.

1) 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).

1 2 3

Jumper position on 2&3

L1   L2   PL   S+   S-

* EB
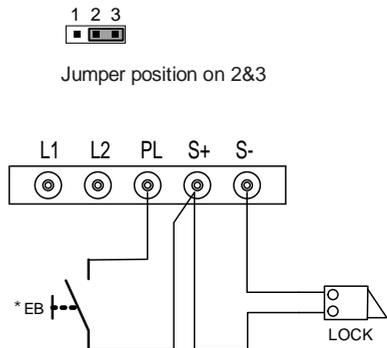
LOCK

2) Door Lock Controlled with External Power

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.

```
1 2 3
■ ■ ■
```
Take off the jumper

```
L1   L2   PL   S+   S-
◎    ◎    ◎    ◎    ◎
```

POWER SUPPLY

LOCK
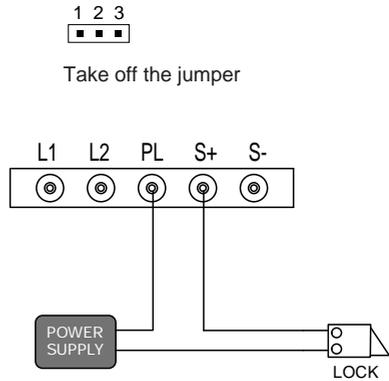
13. Specification

|	
Power supply:	26Vdc
Power Consumption Of Outdoor Station:	0.85W in standby;
	3.25W in working.
Power Consumption Of Indoor Unit:	0.17W in standby;
	6.2W in working.
Camera lens:	Color CMOS, 2.0 Mega pixel
	1/2.7'' fisheye camera,1700 wide angle
Unlock Power output:	12Vdc,250mA
Unlock timing:	1~99s
Working temperature:	- 20ºC ~ +55ºC
Wiring:	2 wire, non-polarity
Dimension:	4.13(H)×6.57(W)×0.67(D)inch(Indoor Unit)
	6.93(H)×3.54(W)×1.06(D)inch(surface)
	8.66(H)×4.68(W)×2.05(D)inch(flush)

14. Hooking Up a Door Release

Door Station

DT607

| L1 | L2 | PL | S+ | S- |

A/C or D/C

Power Supply

+   -

x   x   x   x
IN   OUT
Model: DS-ERL

Note: Relay is NOT SENSITIVE to POLARITY.
For Magnetic Locks you will need a ELK-1 Relay.

S T R I K E
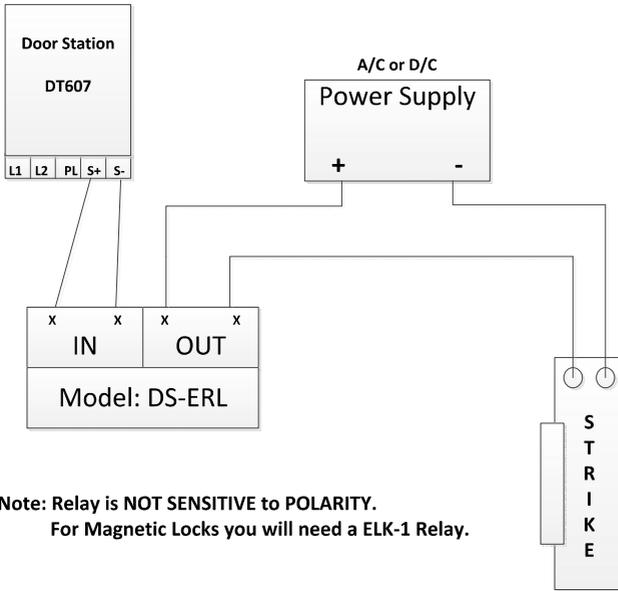
For A/C or D/C door
releases HINTS.
Match the door release
Input Voltage to power
source.

Power   Door
Release
A/C   = A/C
D/C   = D/C
12vDC   = 12vDC
24vDC   = 24vDC
∞16vA/C = ∞16vA/C

Door Station

DT607

| L1 | L2 | PL | S+ | S- |

Power Supply

+   -

-
+

-   +   N/O   COM   N/C
ELK1 Relay
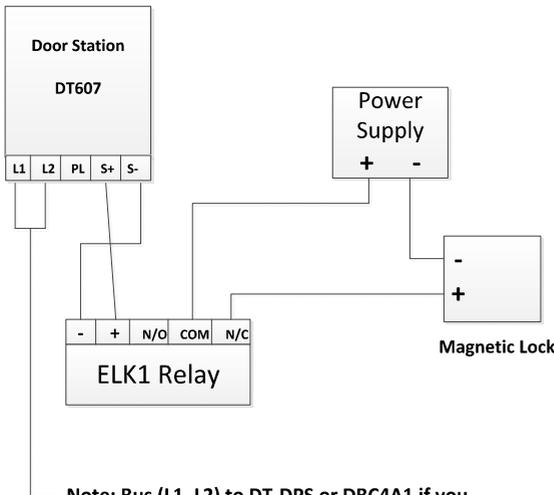
Magnetic Lock

Power Supply can be A/C or
D/C as long as it matches the
needs of the magnetic lock.

By hooking up the ELK1 to the
door release this saves the
outdoor station from being
damaged which is NOT
covered by the warranty!

The reason for this is that all
Magnetic Locks have more
than 200mA and the panel
relay Max is 200mA.

Note: Bus (L1, L2) to DT-DPS or DBC4A1 if you
have more than 1 door station.

FOR TECHNICAL SUPPORT CALL
1516-387-6606 FROM 9AM TILL 4PM
MONDAY THRU FRIDAY
OUR WEBSITE WWW.NYWINT.COM

DK43311-41S KIT