

ENGLISH

# **VIDEO DOOR PHONE SYSTEM**

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USER MANUAL

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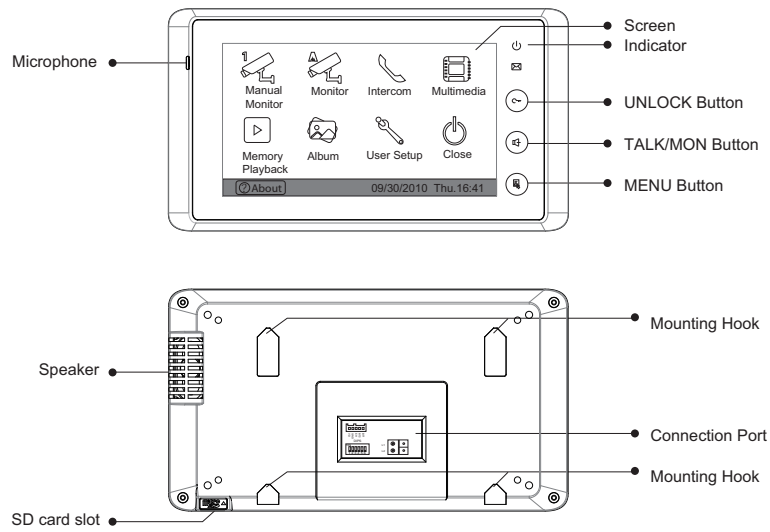
**VERSION 1.0**

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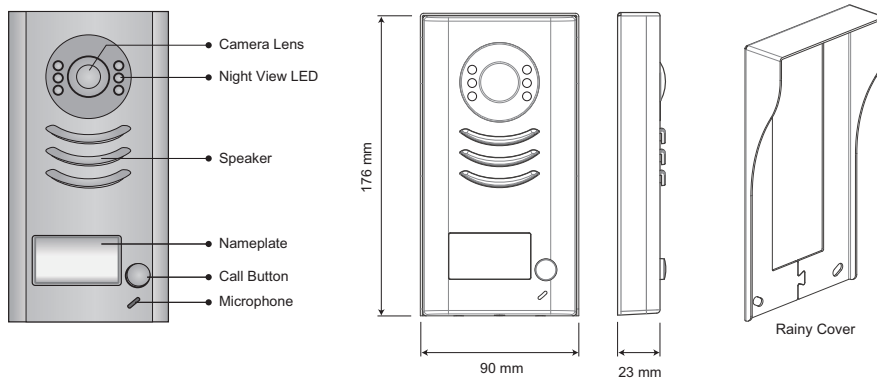
## 1. Indoor Monitor

### Parts and functions(DT27SD)

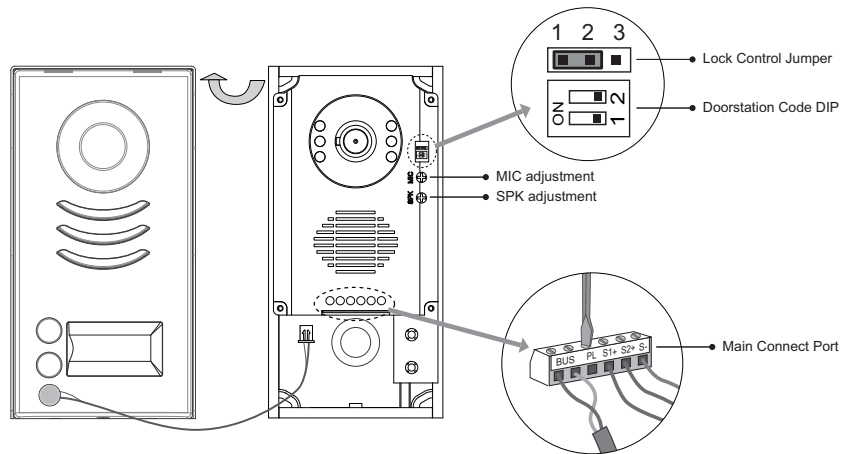


## 2. Outdoor Station

### Parts and functions(DT591)



## Terminal descriptions



**Lock Control Jumper:** To select the lock type: see 5.2.1 , 5.2.2

**Doorstation Code DIP:** Total 4 doorstations can be supported,see 6.1

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

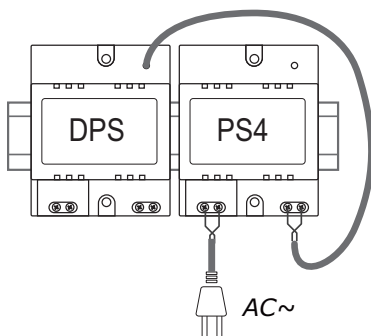
**BUS:** Connect to the bus line, no polarity.

**PL:** External lock power input, connect to the power positive(power +).

**S1+, S2+:** Lock power(+) output, to connect 2 locks.

**S-:** Lock power(-) output, connect to the power(-) input of locks(only when using the camera to power the locks, if using the external power supply for the locks, the S- will not be connected).

## 3. Power Supply





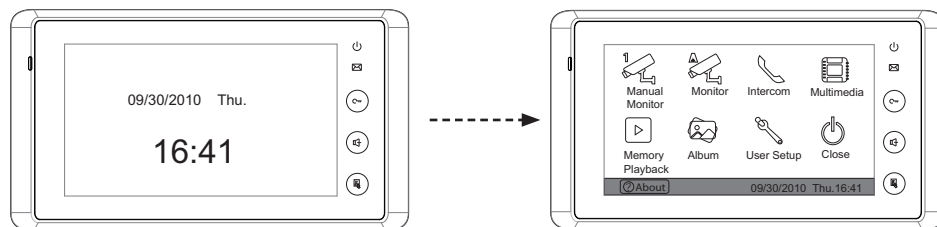
### NOTE:

1.Connecting with multi door stations or multi monitors(up to 2 or above) should use PS5 power supply.





## 4. Operation Instructions

### How to Enter Main Menu



- Touch the screen anywhere (or press  MENU button ) in standby mode, a full screen calendar will be showed.
- Touch the screen again (or press  MENU button again) to enter main menu.








### Answering a Door Call

- Press the CALL button on door station. The monitor rings, and the visitor's image will be seen on screen. If nobody answers the call, the screen will turn off in 30 seconds automatically.
- Press  TALK/MON Button or touch  icon, you can talk with the visitor for 90 seconds. During talking state, press  TALK/MON Button again or press  icon again to end the conversation. If the system connects two or more Monitors, pick up any Monitor, the others will be automatically shut off.







### Door Release

- During the conversation, press UNLOCK Button or touch  icon to unlock the door. (if two locks are connected to door camera, touch  **unlock 2nd** icon to release the second lock )

### Entrance Monitoring




- Press  TALK/MON button on monitor in standby mode, or touch  **Monitor** icon on main menu. the screen will display the view of the Outdoor Station. During monitoring, touch  **Manual Monitor** icon to get into the camera switching mode, (or directly touch  **Manual Monitor** icon on main menu page). if multi Door Stations are installed, you can press the camera 1/2/3/4 to monitor the Door Station or CCTV camera you want. press  **Home** icon to exit .

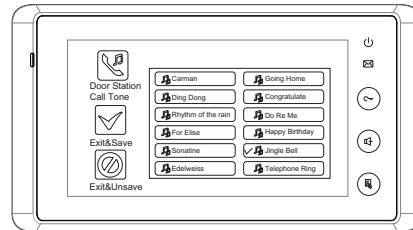
## Intercom Function

- **Intercom Call by namelist:**User in one apartment can call other apartments in the system. Touch  **Intercom** item on main menu page , then touch  **Intercom by Namelist** icon (the namelist will be created automatically by the system). Select a name on the screen then touch  **Dial Number** icon to call.Press   icon to enter last/next name list page. (Touch  **Dial Number** icon again to redial )
- **Inner Call:** If multi Monitors are installed in one user, select and press the Inner Call item, the other Monitors will ring at the same time, whichever Monitor answers the call, conversation is started,and the other monitors will stop ringing at the same time.
- **Direct Dial Guard unit:** A Monitor can be assigned as Guard Unit Monitor; when the Guard Unit Monitor answers the call, conversation with the guard unit is started..

## 5. Basic Setup Instructions







### Ring Tone Setting

- Touch  **User Setup** icon on main menu page to enter call tone setting screen,touch Door station call tone/intercom call tone/door bell call tone,12 pieces ring tones will be displayed , Choose a ring tone which you want, then touch  icon to save and exit, the ring tone will be performed. or touch  icon to unsave and exit.













### Ring Volume Setting

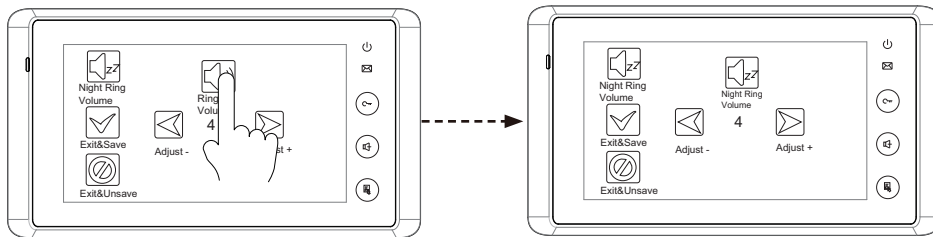
#### Ring Volume

You can set a ring volume for day time,6:00 AM~18:00 PM is the day time by default,enter main menu page.then touch  **User Setup** icon to enter next page,and then touch  **Ring Volume** icon to enter Ring Volume page,Use   icon to decrease/increase the volume. then touch  icon to save and exit,or touch  icon to unsave and exit.




## Night Ring Volume

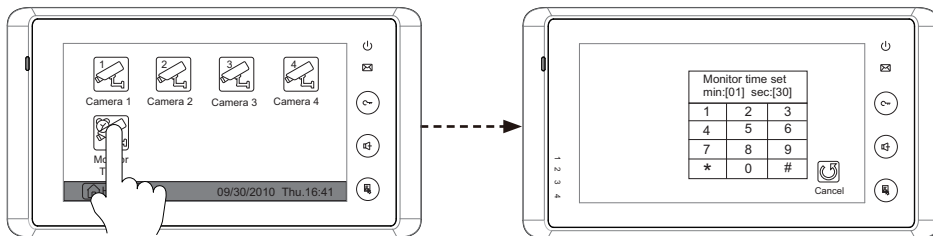
You can active a ring volume for night time,18:00 PM~6:00 AM is the night time by default,if you don't want to be disturbed at night ,you can set the volume to 0.Enter main menu page, touch  **User Setup** icon to enter next page, then touch  **Night Ring Volume** icon to enter Night Ring Volume page,Use   icon to decrease/increase the volume.After setting a value you want,you should touch  **Ring Volume** icon to active the setting, after that the Ring Volume  icon will change to Night Ring Volume  icon. then touch  icon to save and exit,night ring volume will be performed. or touch  icon to unsave and exit.

Note:touch  **Night Ring Volume** icon again,you can cancel the night ring volume setting.




## Monitor Time Setting

- Enter main menu page,thenTouch  **Manual Monitor** icon to enter next page. then press  **Monitor Time** icon to enter monitor time setting page.
- Input digitals by pressing the digital keypad, and press \* icon to change the setting location,and press # icon to save. Settings will be performed immediately, press  icon to return last page .






## Picture Recording










Both Auto-Recording and Manual-Recording are available.and Auto-Recording is default. If receive a Call , after 3s, the monitor will record automatically. or you can touch  **Capture** icon to record the visitor's image manually.

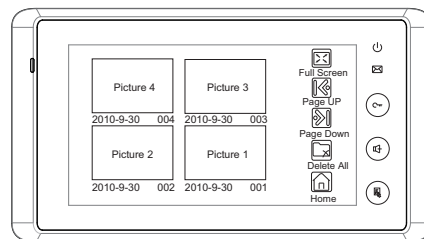
## Record times Setting

You can setup Memo Options to choose 1/4/8 pictures memo. If 4/8 was chosen, you will have 4/8 shots for each recording operation, and every 1.5 seconds catch a picture.


Touch  **Multi Media** icon on main menu, then touch  **Memory Options** icon,a digital keypad will be showed on the screen,you can only set the record times for 1/4/8 by touching the digital keypad.touching other digitals are invalid .Press # icon to save. Settings will be performed immediately, press  icon to return last page .

## Picture Playback




Touch  **Memory Playback** icon on main menu,4 pictures will be displayed in the memo for each page. you can touch  or  to enter last or next picture memo,or touch  icon to delete all pictures. And you can zoom the picture on full screen by touch  icon , on full screen mode, touch   icon to preview last/next picture.or you can touch  icon to delete the picture you are previewing.press  icon to return home screen page.



## Photo Playing

Touch  **Album** icon on main menu to play the photos(must plug in SD card).it can be played both manually and automatically,use your fingers to slide right or left on screen to play last/next photo.

## Playing time setting

Touch  **Multi Media** icon on main menu, then touch  **Album Options** icon,a digital keypad will be showed on the screen. Input playing time by touching the digital keypad.Press \* icon to change the location, press # icon to save. Settings will be performed immediately, press  icon to return last page .

## 6. Mounting Instruction

### Indoor Monitor

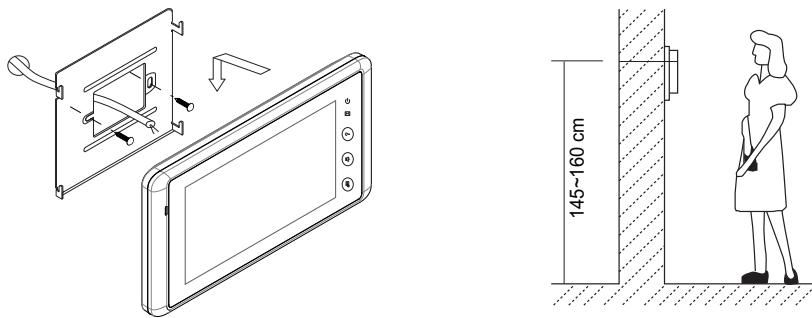
Accessory fittings:

Use the screws to fix the Mounting Bracket on the wall.(accessories include a Bracket, two 4X25 screws (use to fasten the Mounting Bracket), 2 wire cables (use to connect with Monitor)).

Installation steps:

Installation height for indoor monitor usually is 145~160cm(refer to sketch map)

Connect cables with the monitor correctly,then hang the monitor on the mounting bracket firmly.

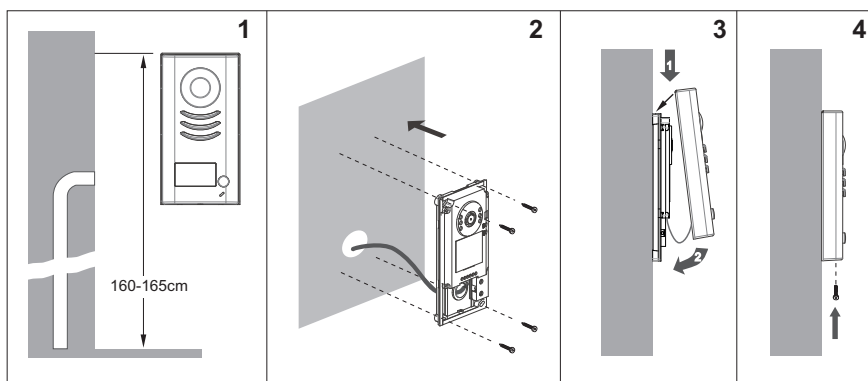


### Outdoor Station

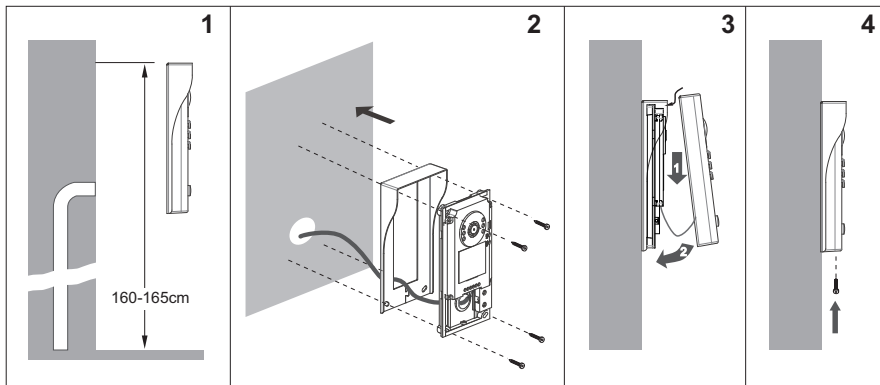
The location of outdoor station should keep away from snow,rain,and intensity light.

The installation height is the same as indoor monitor of 145~160cm.

**Mounting without rainy cover**

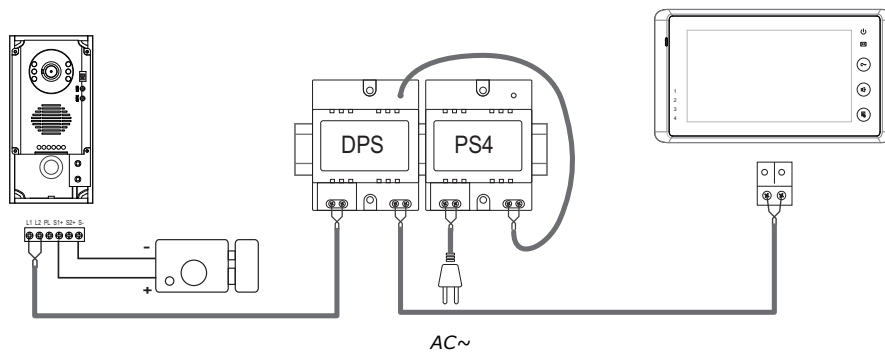


### Mounting with rainy cover



## 7. System Wiring and Connections

### Basic Connection



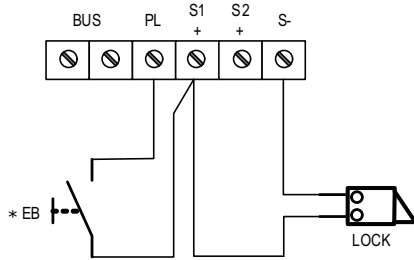
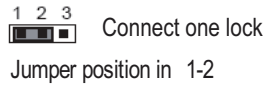
## Electric Lock Connection

### Door Lock Controlled with Internal Power

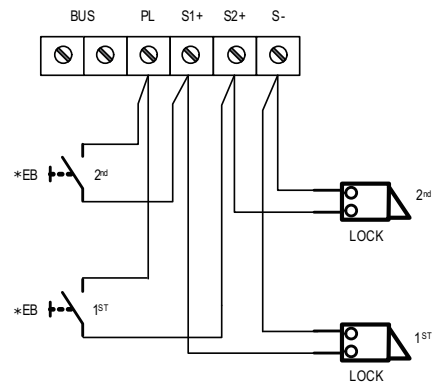
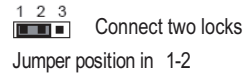
**Note:**

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 door lock control is not timed from Exit Button(EB).
4. The **Unlock Mode** Parameter of Monitor must be set to 0 (by default).

connect one lock



connect two locks

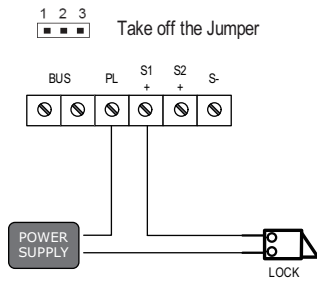


### Door Lock Controlled with Dry Contact

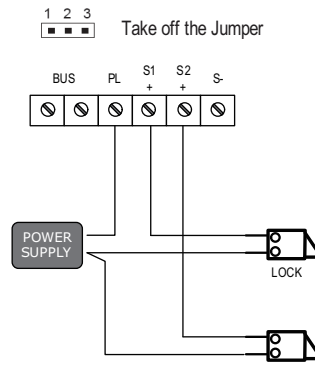
**Note:**

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

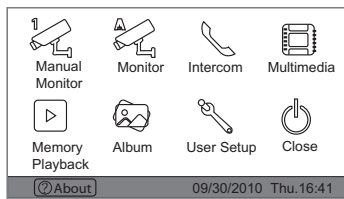
### connect one lock



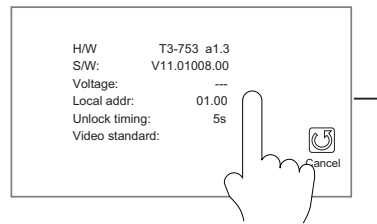
### connect two locks



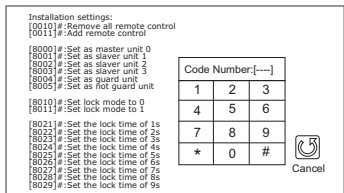
## How to setup the unlock parameter in Monitor



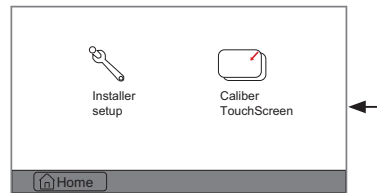
1.Touch **About** icon on main menu page.



2.Touch the screen anywhere and hold for 3s.



4.Input code number by touching the digital keypad.8010 and 8011 are used to set the unlock mode(0 and 1). 8021~8029 are used to set the unlock time (1s~9s) .use \* to cancel input,use # to save.

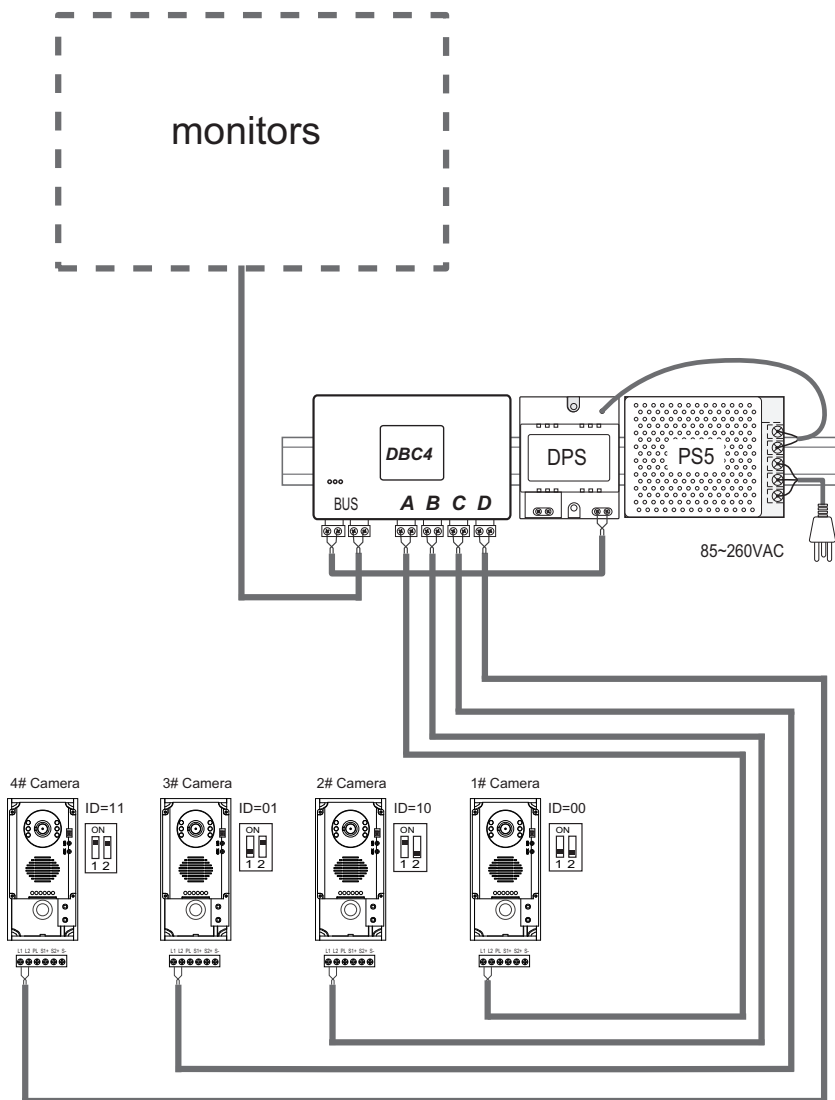


3.Touch **Installer setup** icon,a digital keypad and installation setting will be showed on screen.

### Note:

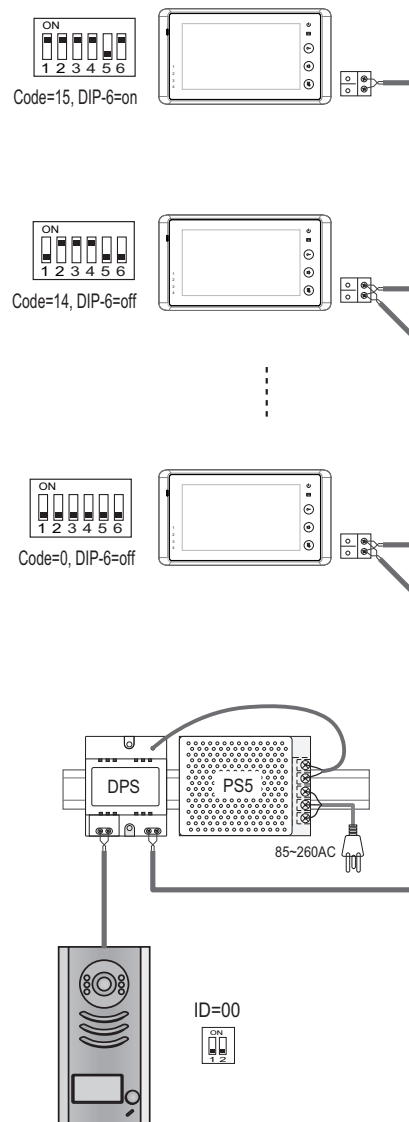
- 1.must connect DT591/592 correctly before setting.
- 2.the parameter will be saved in DT591/592 automatically,so you need only set on one monitor.

## Multi Doorstations Connection

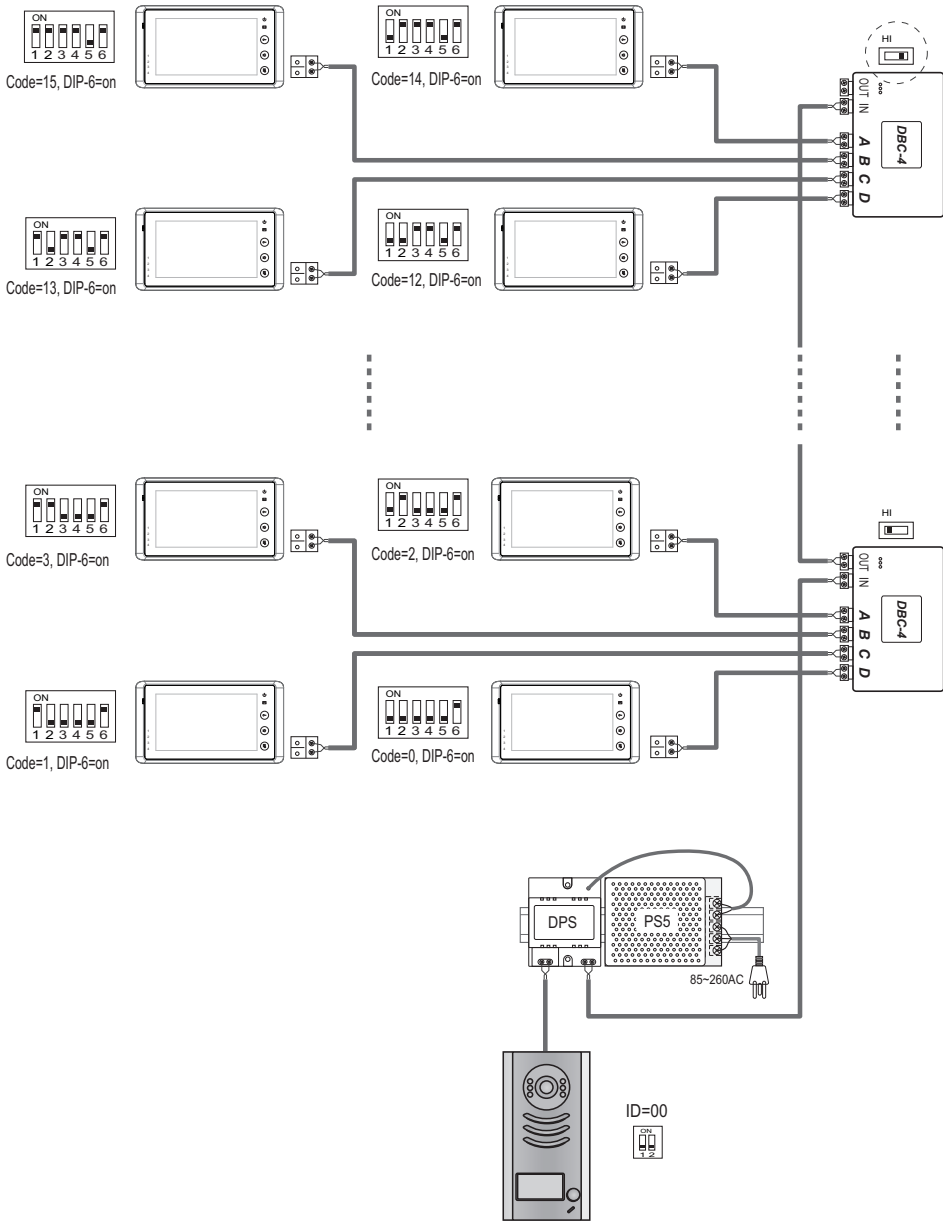


## Multi Monitors Connection

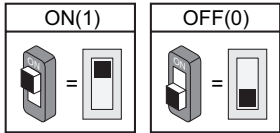
### Basic IN-OUT Wiring Mode



**With DBC-4 Wiring Mode**







## 8. DIP Switchs Setting



### DIP Switches Settings for Doorstation



Total 2 bits on the DIP switches can be configured. The switches can be modified either before or after installation.

Bit state	Descriptions
	Default setting, ID = 0(00), set to the first Door Station.
	ID = 1(10), set to the second Door Station.
	ID = 2(01), set to the third Door Station.
	ID = 3(11), set to the fourth Door Station.

































### DIP Switches Settings for Monitor

There are 6 bit switches in total. The DIP switches are used to configure the User Code for each 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.

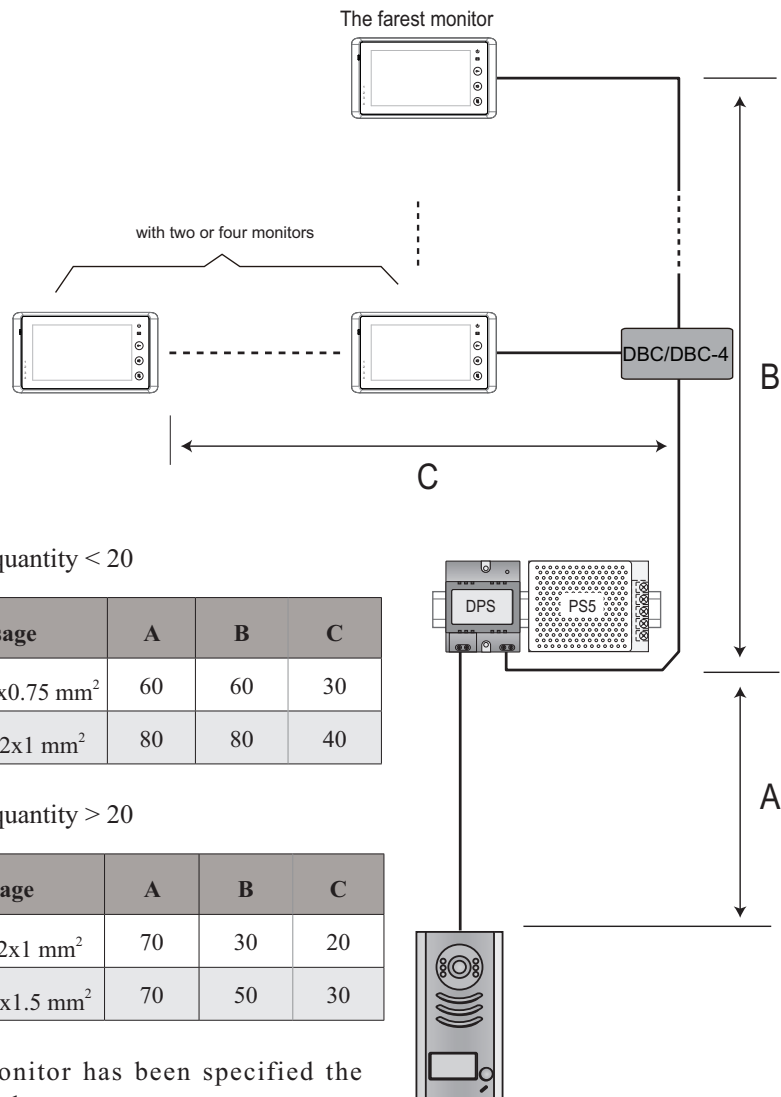
Bit state	Setting	Bit state	Setting
	The monitor is not at the end of the bus.		The monitor is at the end of the bus.

Bit-1 to Bit-5 are used to User Code setting. The value is from 0 to 31, which have 32 different codes .

Bit state	User Code	Bit state	User Code	Bit state	User Code
	Code=0		Code=11		Code=22
	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		

## 9. Cables Requirements

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.



When Monitor quantity < 20

Cable Usage	A	B	C
Twisted cable 2x0.75 mm <sup>2</sup>	60	60	30
Twisted cable 2x1 mm <sup>2</sup>	80	80	40

When Monitor quantity > 20

Cable Usage	A	B	C
Twisted cable 2x1 mm <sup>2</sup>	70	30	20
Twisted cable 2x1.5 mm <sup>2</sup>	70	50	30

Note: If the monitor has been specified the distance, refer to the parameter.

## 10. Technical Parameter

- 1) Power supply for indoor monitor: DC 24V (supplied by Adaptor)  
power supply for outdoor station: 12Vdc, 300mA(Internal Power)
- 2) Power consumption: Standby 0.5W,Working status 15W(for kits)
- 3) Indoor monitor screen: 7 Inch color TFT-LCD
- 4) Camera: 3.6mm,76 degree,Pin hold camera
- 5) Display Resolution: 800\*3(RGB)\*480 pixels
- 6) Video signal: 1Vp-p,75Ω,CCIR standard
- 7) Built-in memory for monitor: 120M
- 8) Picture memo for monitor: 800pcs(inner memory),>30000pcs(2G SD card)
- 9) Unlock time: 1 to 9 seconds, set by Monitor
- 10) Working temperature for door station: -10°C ~ 45°C
- 11) Dimension for monitor: 125(H)×225(W)×23(D)mm  
Dimension for door station: 178(H)×90(W)×30(D)mm

## 11. Precautions

- 1) All components should be protected from violence vibration. And not allow to be impacted, knocked and dropped.
- 2) To clean the Lens& Screen by using hands or wet cloth is forbidden.
- 3) Please do the cleanness with soft cotton cloth, please do not use the organic impregnant or chemical clean agent. If necessary, please use a little pure water or dilute soap water to clean the dust.
- 4) Image distortion may occur if the video door phone is mounted too close to magnetic field e. g. Microwaves, TV, computer etc.
- 5) Please keep away the video door monitor from wet, high temperature, dust, caustic and oxidation gas in order to avoid any unpredictable damage.
- 6) You must use the right adaptor which is supplied by the manufacture or approved by the manufacture.
- 7) Pay attention to the high voltage inside the products, please refer service only to a trained and qualified professional.



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