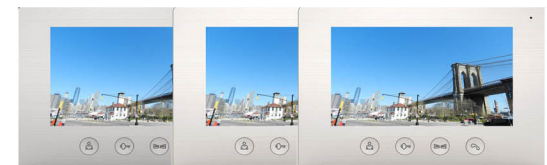


USER MANUAL

TWO-WIRE VIDEO INTERCOM SYSTEM

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Product Description

The OS800 is a video intercom outdoor unit for 2 or 3 households of **rintercom's** two wire building intercom system. It has the basic functions such as call and unlock etc. With high definition built-in camera, it provides high definition video intercom for the users.

Features

1. Call the users directly through outdoor unit.
2. Lock release buttons can be connected to realize the unlocking function.
3. Blue key pad back light.
4. With key pad tone when pressing the buttons.
5. The camera is adjustable, with night vision function.
6. Unlock time can be set as 3 seconds or 5 seconds.
7. Two wire non-polarity twisted pair connection.

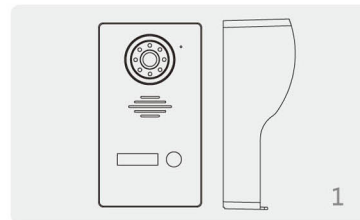
Caution

1. Keep the outdoor unit away from the following environment: under direct sunlight, high temperature, snow and frost, corrosive chemical materials and dusty places.
2. Install the outdoor unit on a place with good visual effect, 1.4m~1.7m height over the ground is advised.
3. If there are abnormal situations when the unit is connected with electricity, cut off the power supply immediately and do not power on until trouble shooting.
4. Please check the system with conventional methods after power off if the system is abnormal. If you cannot find out the reasons, please ask the agent or the manufacture for after-sale service; do not fix the unit yourself.
5. Keep the outdoor unit away from strong interference places; otherwise system working may be interfered.

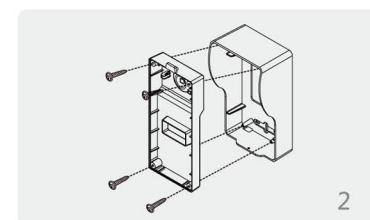
Safety Instruction:

1. To prevent damage, the equipment should be fastened on the iron gate or flush mounted in the wall.
2. Electricity is prohibited when doing the installation.

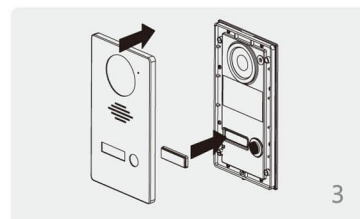
System Installation



1. Fasten the rain shade at 1.4m~1.7m over the ground (according to the camera's effect), avoid direct sunlight.



2. Take off the aluminum alloy panel, and then fasten the outdoor unit with screws.

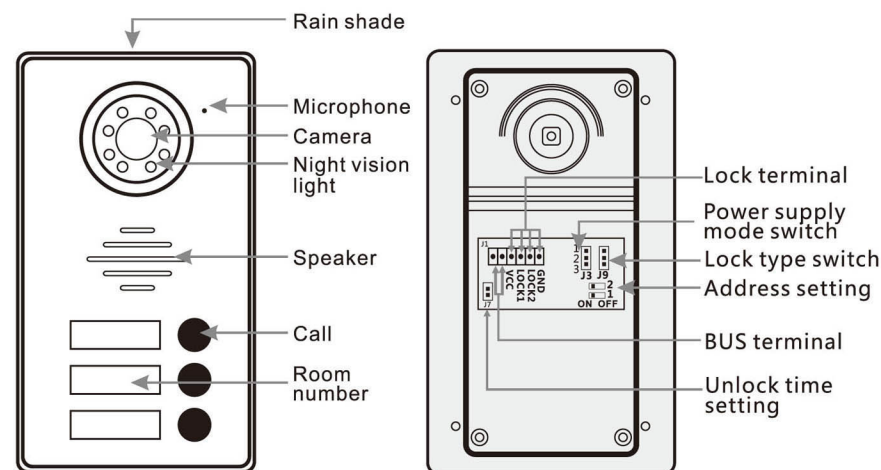


3. Take off the room number plate cover, write down the room number and then cover the plate up.



4. Install the aluminum alloy panel as the picture shows, fasten the panel with screws.

Function Keys and Operation Instruction

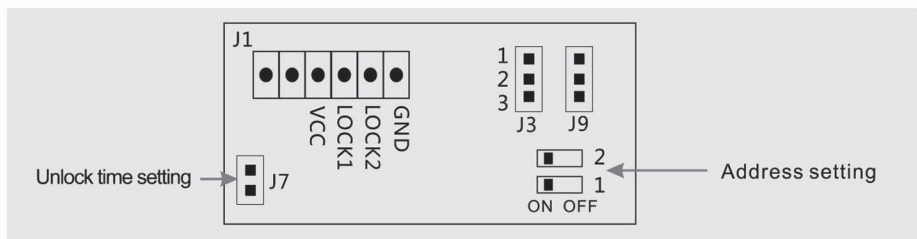


1. Call the indoor unit

Visitors press the CALL button on the outdoor unit, and the indoor unit will ring and display the pictures of the visitors. Press the TALK button to intercom with the visitor. The talking time for OS800 outdoor unit is about 60 seconds.

2. Code setting of the outdoor unit

Maximum 4 outdoor units can be connected to the system at the same time. Each outdoor unit must set a unique address. Use NO.1 and NO. 2 bit of the slide switch on the back of the outdoor unit to set address. See the picture below:



ON	ID=0 , Address of the NO.1 outdoor unit , Bit 1 : OFF , Bit 2 : OFF
ON	ID=1 , Address of the NO.2 outdoor unit , Bit 1 : ON , Bit 2 : OFF
ON	ID=2 , Address of the NO.3 outdoor unit , Bit 1 : OFF , Bit 2 : ON
ON	ID=3 , Address of the NO.4 outdoor unit , Bit 1 : ON , Bit 2 : ON

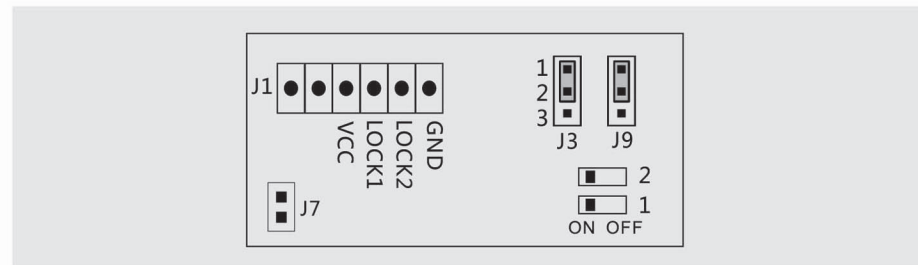
3. Unlock setting

- 3.1 The outdoor unit can connect with the electric lock or magnetic lock.
- 3.2 The unlock voltage is DC 12V, the unlock current is lower than 300mA when unlocked by internal power source.
- 3.3 Two unlock power supply modes: internal and external.

- 3.4 The unlock time is set by the J7 switch. Plug the mini jumper into J7 to set the unlock time as 3 seconds and the unlock time will be set as 5 seconds if users do not plug mini jumper into the J7 switch.

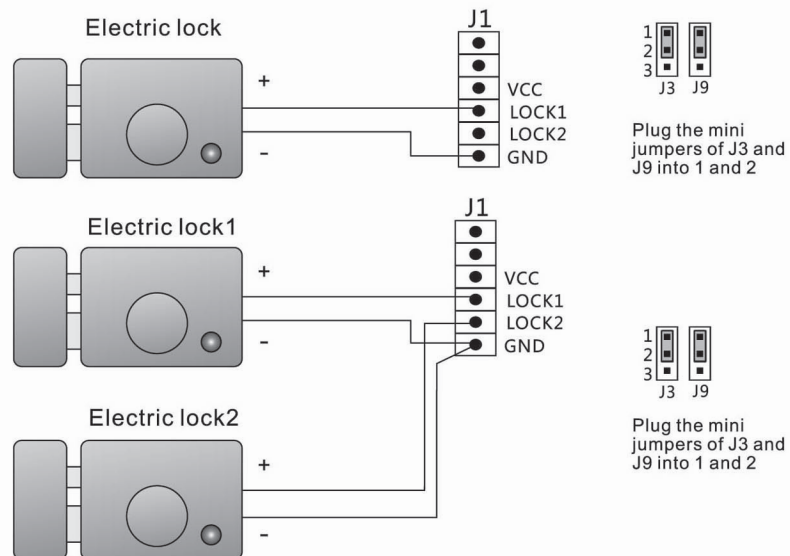
3.5 Steps for: Connect with the electric lock, internal power supply mode

- 1) Plug the J3 and J9 switch with 1 and 2 to select electric lock (note: the factory default is plug the J3 and J9 with 1 and 2)

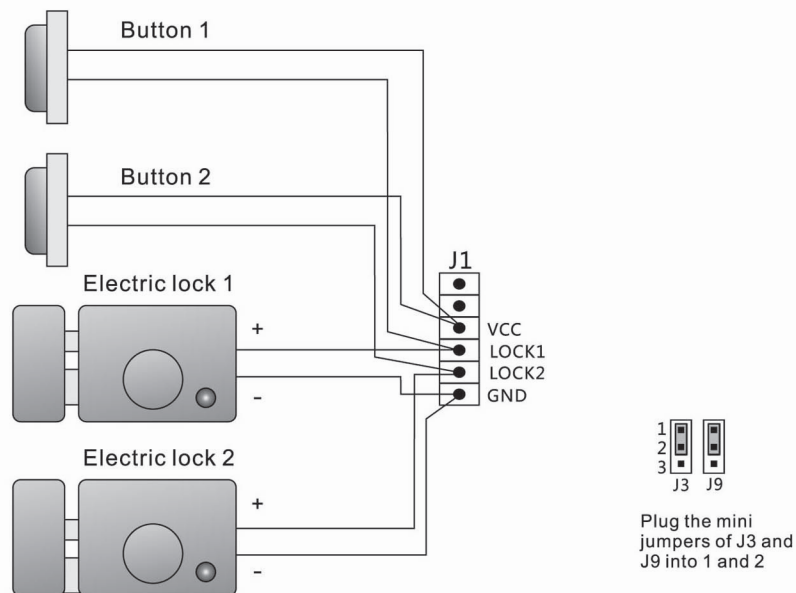
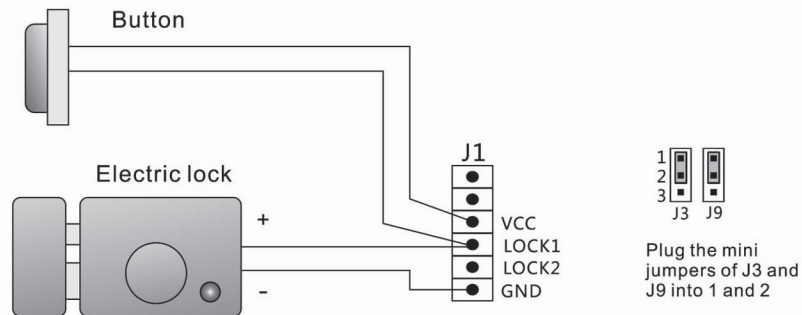


1 2 3 J3 J9	Plug the mini jumpers of J3 and J9 with 1 and 2 to select electric lock, unlocked by internal power supply
1 2 3 J3 J9	Plug the mini jumpers of J3 and J9 with 2 and 3 to select magnetic lock, unlocked by external power supply

- 2) After finish step (1), one or two electric locks can be connected. Under talking or monitoring state, press the unlock button on the indoor unit to release the lock, the unlock current is lower than 300mA. Wiring diagram as below:

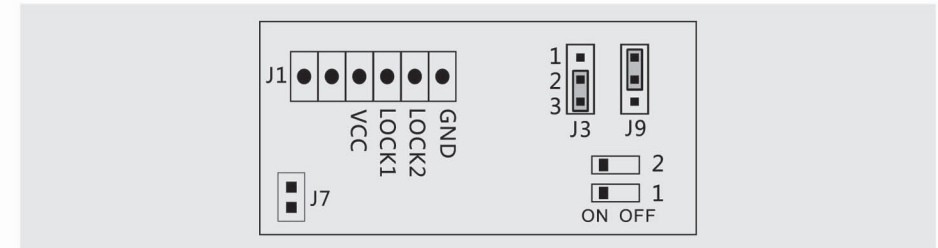


- 3) If users want to unlock by lock release button, normally open button 1 and button 2 can be connected to the unlock terminal to release electric lock 1 and electric lock 2 respectively.

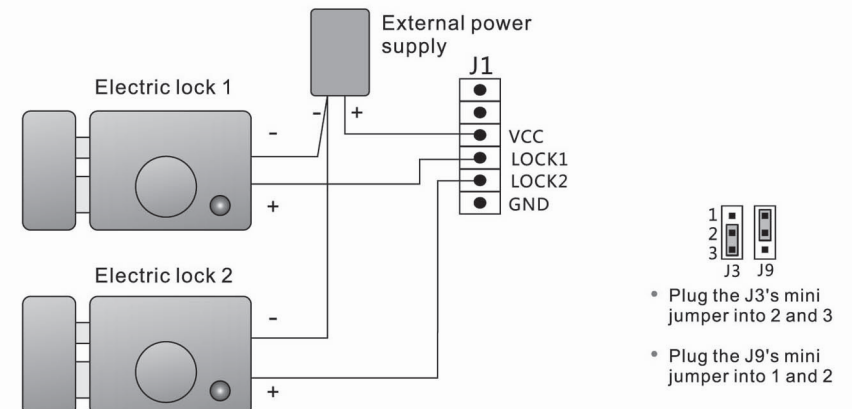
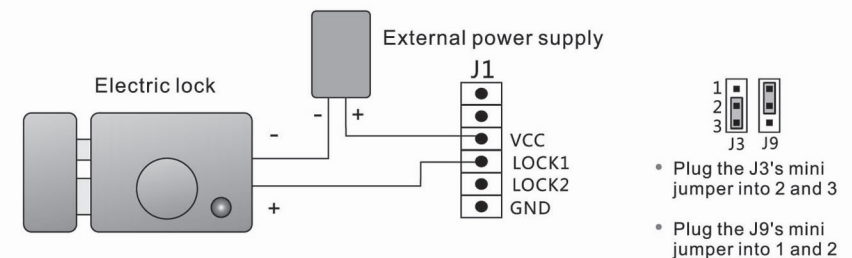


3.6 Steps for: Connect with electric lock, unlocked by external power supply

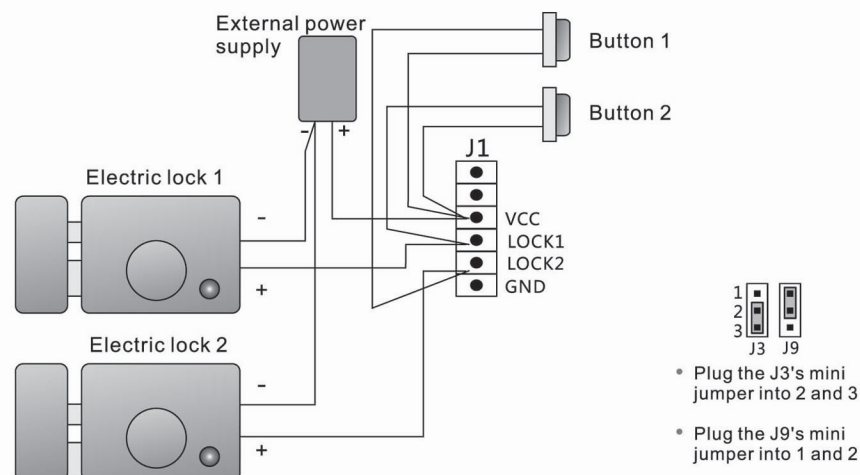
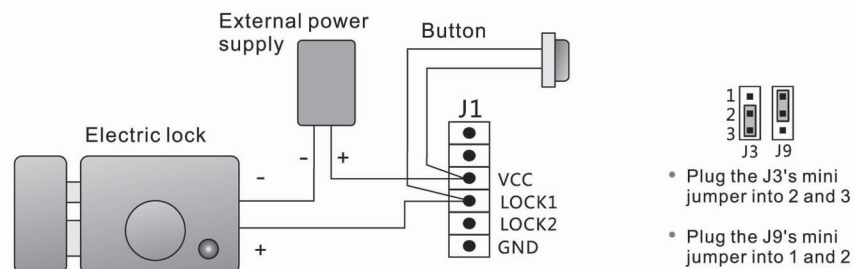
- 1) Plug the J3 terminal into 2/3 and J9 terminal into 1/2 to select external power supply mode. See the picture below:



- 2) After finish step (1), one or two electric locks can be connected. Under talking or monitoring state, press the unlock button on the indoor unit to release the lock. Wiring diagram as below:

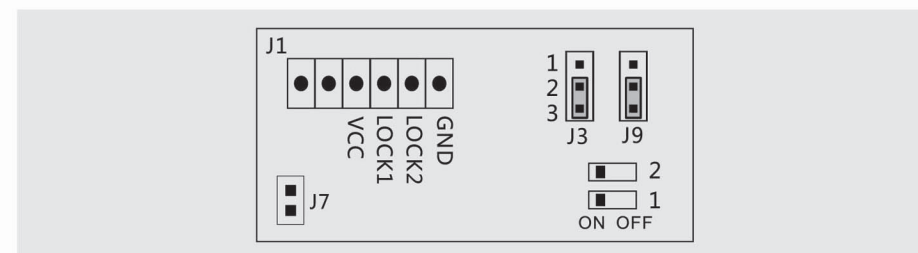


- 3) If users want to unlock by lock release button, normally open button 1 and button 2 can be connected to the unlock terminal to release electric lock 1 and electric lock 2 respectively.

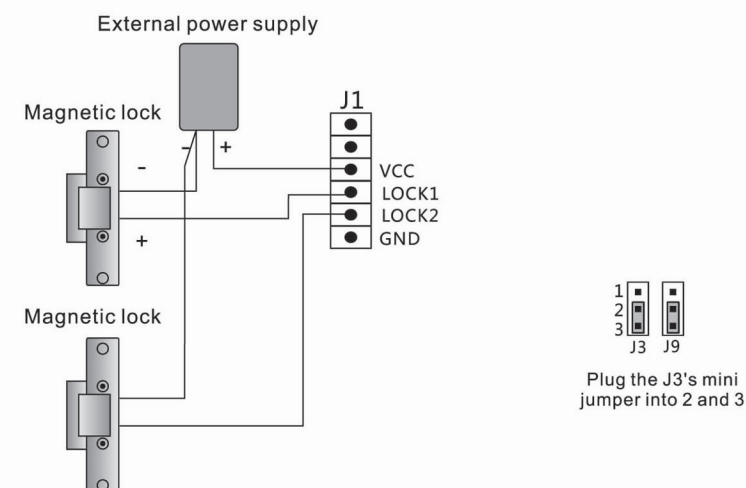
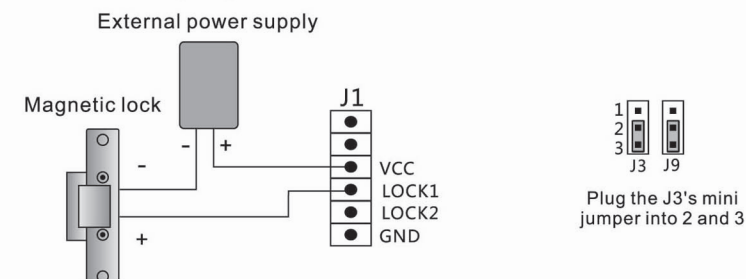


3.7 Steps for: Connect with magnetic lock, unlocked by external power supply

- 1) Plug the mini jumpers of J3 and J9 into 2 and 3 to select external power supply, see the picture below:

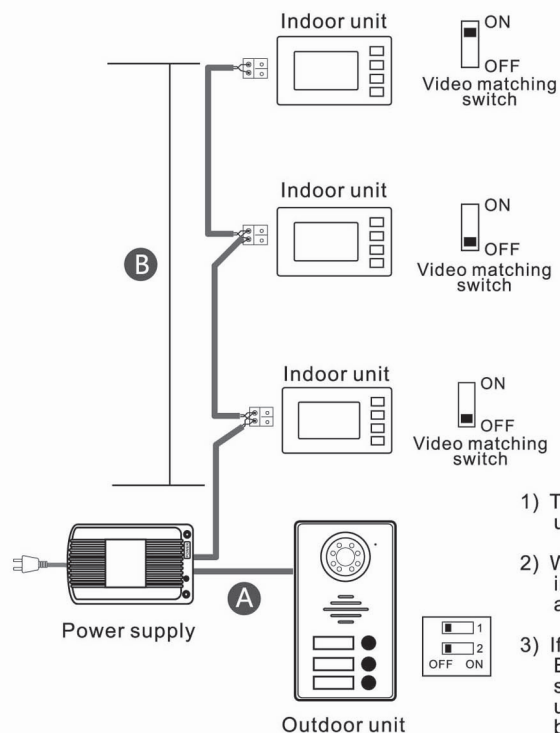


- 2) After finish step 1, one or two magnetic locks can be connected. Under monitoring or talking state, press the UNLOCK button on the indoor unit to release the lock. Wiring diagram as below:



Building Type System Connection

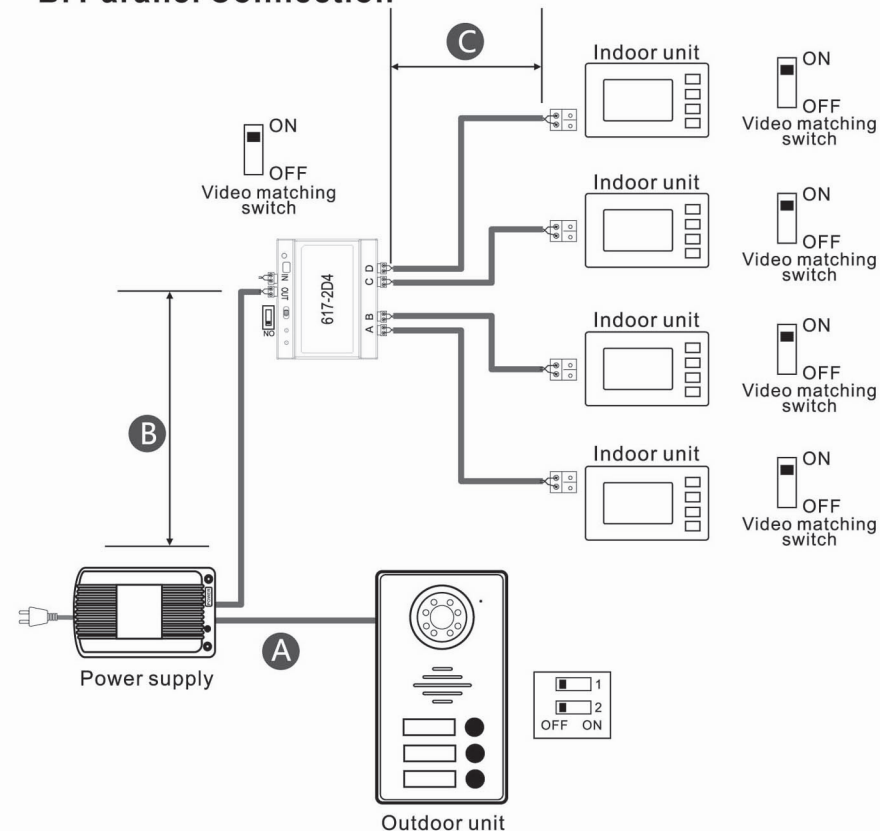
A. Serial Connection



- 1) The DIP bit-1 and bit-2 of the outdoor unit should be set as 00.
- 2) When multi indoor units are connected in a family, only one of them shall be set as main unit and others are sub units.
- 3) If the indoor unit is connected with the BUS terminal, its video matching switch should be turned to ON, other indoor units' video matching switches should be turned to OFF.
- 4) Max 1 outdoor unit and 4 indoor units can be connected to this power supply.
- 5) The W2 outdoor unit could support 2 indoor units and the W3 outdoor unit could support 3 indoor units.

Wiring diameter and length		
Copper core twisted pair inner diameter	A	B
0.5mm ²	30 meters	40 meters
1.0mm ²	30 meters	50 meters
1.5 mm ²	30 meters	70 meters

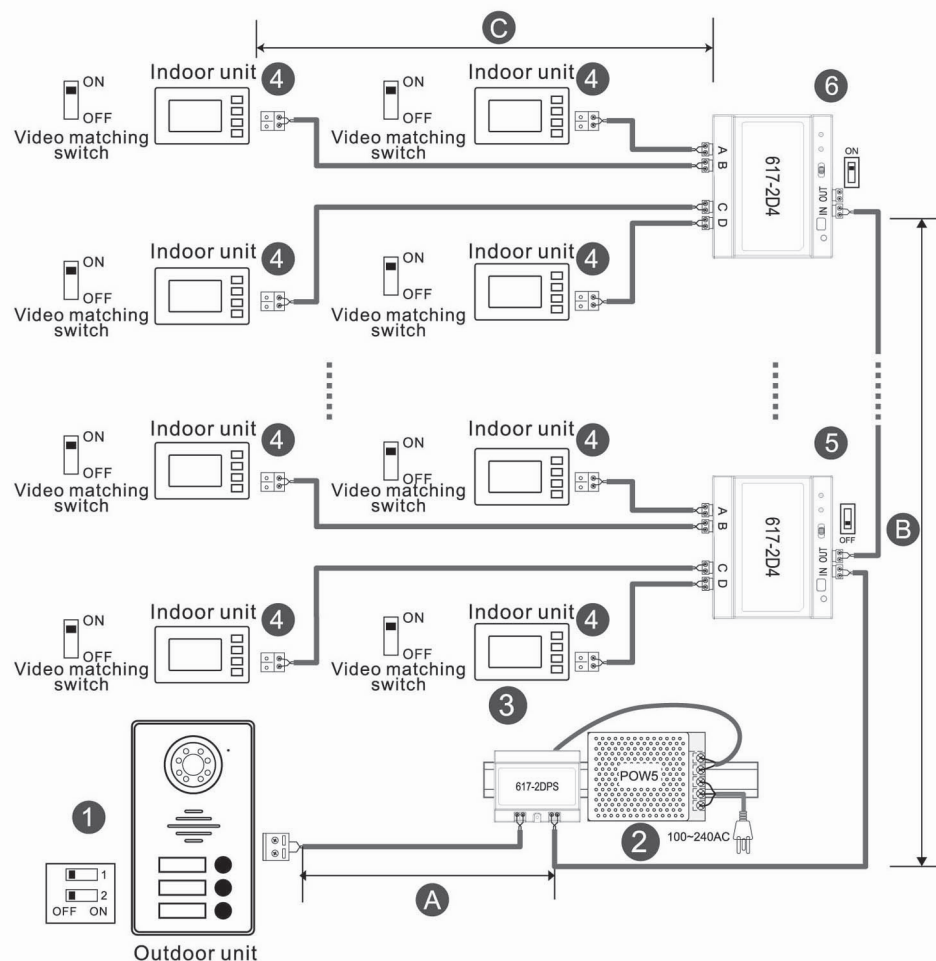
B. Parallel Connection



- 1) The DIP bit-1 and bit-2 of the outdoor unit should be set as 00.
- 2) When multi indoor units are connected, only one of them shall be set as main unit and others are sub units.
- 3) Turn the video matching switches of the indoor units to ON.
- 4) Max 1 outdoor unit and 4 indoor units can be connected to this power supply.
- 5) The W2 outdoor unit could support 2 indoor units and the W3 outdoor unit could support 3 indoor units.

Wiring diameter and length			
Copper core twisted pair inner diameter	A	B	C
0.5mm ²	30 meters	20 meters	15 meters
1.0mm ²	30 meters	30 meters	15 meters
1.5 mm ²	30 meters	40 meters	15meters

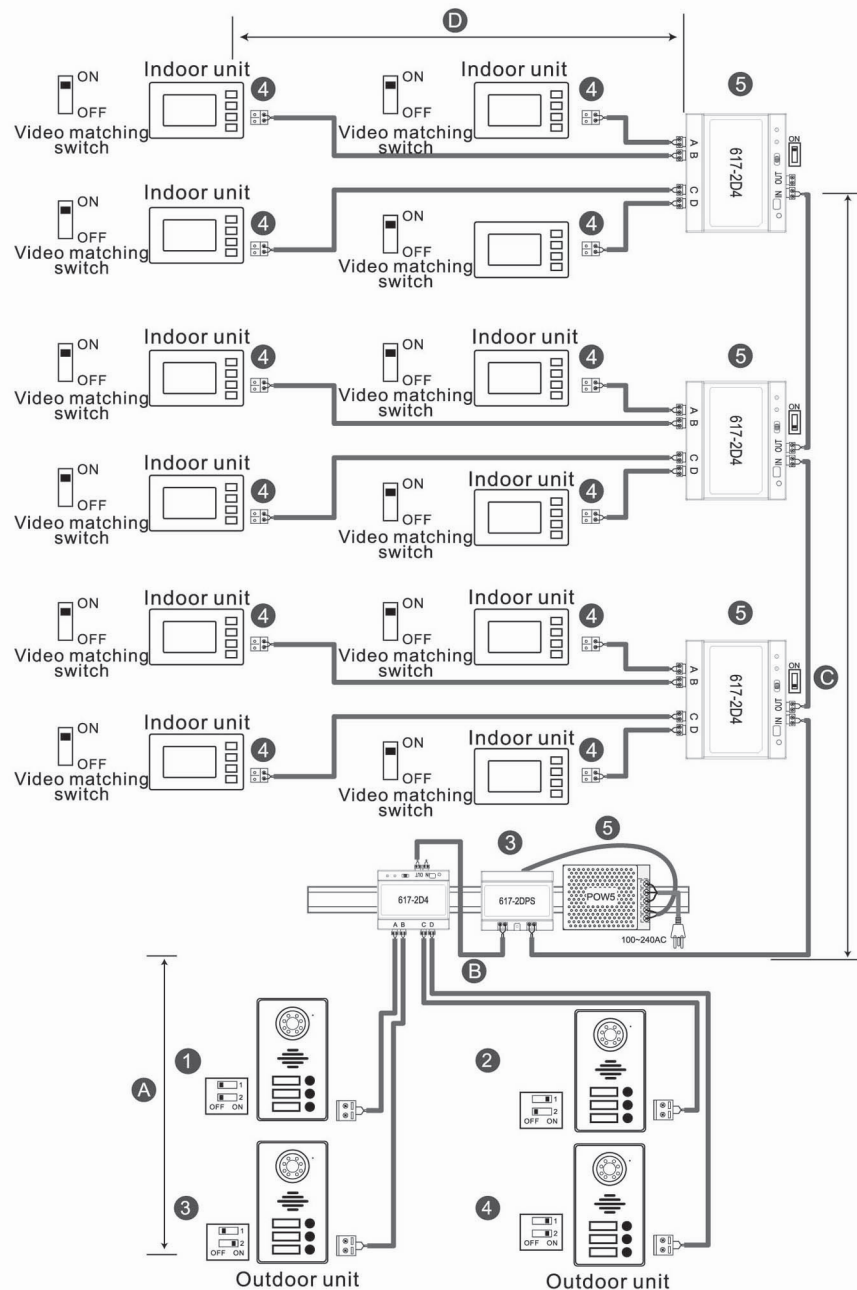
C. Building One Outdoor Unit Wiring



- 1) The DIP bit-1 and bit-2 of the outdoor unit should be set as 00.
- 2) When multi indoor units are connected in a family, only one of them shall be set as main unit and others are sub units.
- 3) Turn all the video matching switches of the indoor units to ON.
- 4) By this wiring method, the **OS800** outdoor unit could support 8 indoor units and the **OS800** outdoor unit could support 12 indoor units.

Wiring diameter and length			
Copper core twisted pair inner diameter	A	B	C
0.5mm ²	30 meters	20 meters	15 meters
1.0mm ²	30 meters	30 meters	15 meters
1.5 mm ²	30 meters	40 meters	15meters

D. Building Multi Outdoor Units Wiring



- 1) For 1st outdoor unit, DIP bit-1 and bit-2 should be set as 00.
- 2) For 2nd outdoor unit, DIP bit-1 and bit-2 should be set as 10.
- 3) For 3rd outdoor unit, DIP bit-1 and bit-2 should be set as 01.
- 4) For 4th outdoor unit, DIP bit-1 and bit-2 should be set as 11.
- 5) Power (POW5) should be installed parallel with power isolator 617-2DPS
- 6) Power isolator 617-2DPS should be installed parallel with power (POW5).
- 7) Splitter 617-2DPS could max connect 4 outdoor units.
- 8) Every indoor unit has its unique user address. Attentions. In such a case, all video matching switches should be set as ON, 617-2DPS outdoor unit could support 8 indoor units, 617-2DPS outdoor unit could support 12 indoor units.
- 9) For Splitter 617-2DPS, BUS terminal splitter impedance switch should be set as ON, other splitter impedance switch should be set as OFF.

Wiring diameter and length				
Copper core twisted pair inner diameter	A	B	C	D
0.5mm ²	30 meters	5 meters	20 meters	15 meters
1.0mm ²	30 meters	10 meters	30 meters	15 meters
1.5 mm ²	30 meters	10 meters	40meters	15meters

Technical Specification

Main unit capacity	2 households/ 3 households	Talking time	60 seconds
Working voltage	DC 24V	Min Illumination	0.1LUX
Working current	<200mA	Viewing angle	Adjustable
Static current	<100mA	Working temperature	-20°C ~ +40°C
Video FM output	10MHz-15MHz 2Vpp	Installation	Wall flushed mounted or Iron gate fasten mounted
Camera	Reinforced CMOS	Resolution	500 TV line
Installation Size			
Outline dimension (Iron gate fastened)		200(H) × 112(W) × 43.6(D) mm	
Pre embedded size (Flush mounted)		184(H) × 94(W) × 40(D) mm	
Rain shade size		208.07(H) × 121.36(W) × 78.79(D) mm	