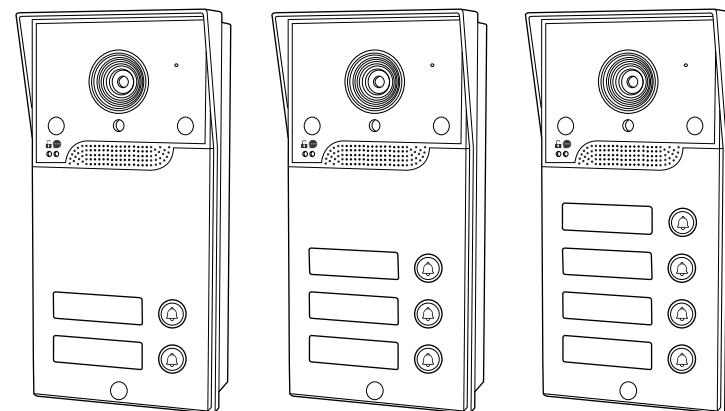


2-4 unit Apartment Video Intercom System



Product parameters	
Project	Parameter
Model	MSA-2/3/4
Resolution	1.0MP
Power supply	Indoor Unit Power Supply (15V 1.2A)
Power	Standby: ≤2W Operating: ≤5W
View Angle	120°
Night vision sensitivity	0.01 Lux
Night vision distance	2M
Night vision	White Light Full Color Night Vision
Operating temperature	-30°C~60°C
Rainproof level	IP65
Installation	Embedded Installation
Material	Aluminum alloy +ABS plastic
Network cable length	100 M
Size	173*85*41mm

Please read this Instructions carefully before use to ensure the correct use of this product

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Matters needing attention

a.Test before installation

Open the package, check whether the accessories are complete, use the original test cable for the outdoor unit and indoor unit, whether it work normally, and then install.

Note: The wiring must be strictly in accordance with the connection diagram of the manual, otherwise the function not be used normally, or even damage the equipment; please refer to the purchased access control power supply manual for the use of the access control power supply, which is not included in the set.

b.Maintenance

- 1.Don't use it with any product not produced by our company;
- 2.Users shall follow the user manual strictly to install and test the product.Please call our company for technical support if you have any question.

V.Wiring requirements

A . Extension cable parameter requirements

1-30 Meter	RVV4*0.30
31-50 Meter	RVV4*0.50
51-100Meter	RVV4*1.0

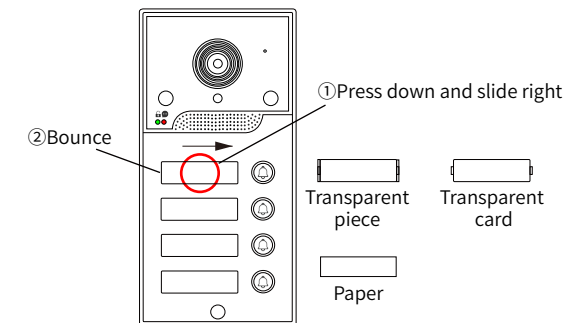
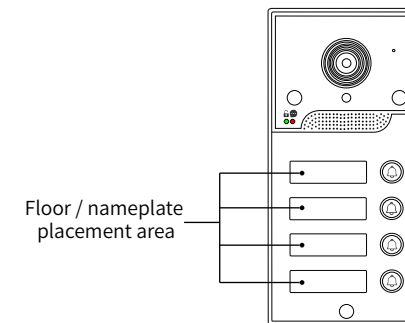
Colors and functions of wiring terminals:

Yellow --- Video Blue --- Audio
Black --- Ground wire Red --- VCC
Green--- Intercom between the screens

B.Separate wiring from AC

1. It's not allowed to arrange power supply wiring and AC or other high frequency wire in the same conduit, and the spacing distance shall be larger than 60cm;
2. The power supply wire for the indoor unit may be laid with intercom wiring in the same conduit;
- 3.Suggestion Rvv wire or Cat5/6 network cable connection (2 cores make 1 core connection).

VI.Floor / nameplate placement instructions



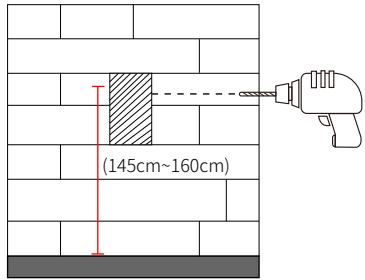
①.You can fill in floor / name plate and other information as you like.

①.Press down the middle area of the transparent part and slide right;

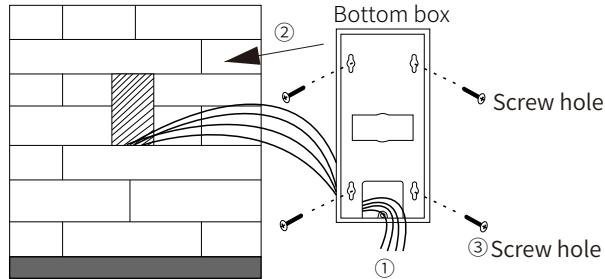
②.The transparent piece bounces, and remove the built-in transparent card and paper;

③.Fill in the information and put it back into the card slot to complete the operation.

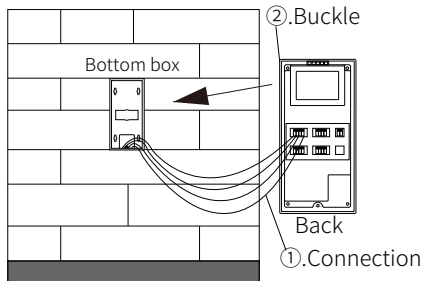
IV. Installation Instructions



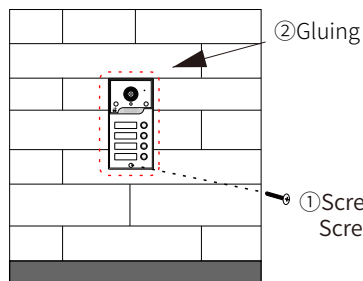
1. Determine the location and height for installing; the reference height is 145-160cm from the Camera center to ground;
2. It's required to avoid installing the outdoor unit at any place with strong direct sunlight;
3. Locate the position and groove the wall with a percussion drill, with a depth of about 3 cm;
4. Embed the required power cord.



1. Route the power cable through the built-in bottom box of outdoor unit;
2. Arrange and finish power cord and fix the bottom box on the wall slot position;
3. Attach the box to the wall with expansion screws.



1. Correctly connect power cable to wiring terminals on the back of outdoor unit;
2. Buckle outdoor unit into the bottom box that has been fixed on the wall.



1. Fix outdoor unit and bottom box with screws;
2. Seal the periphery of outdoor unit with sealant to ensure waterproof edges;
3. The installation is completed.

I. Product structure

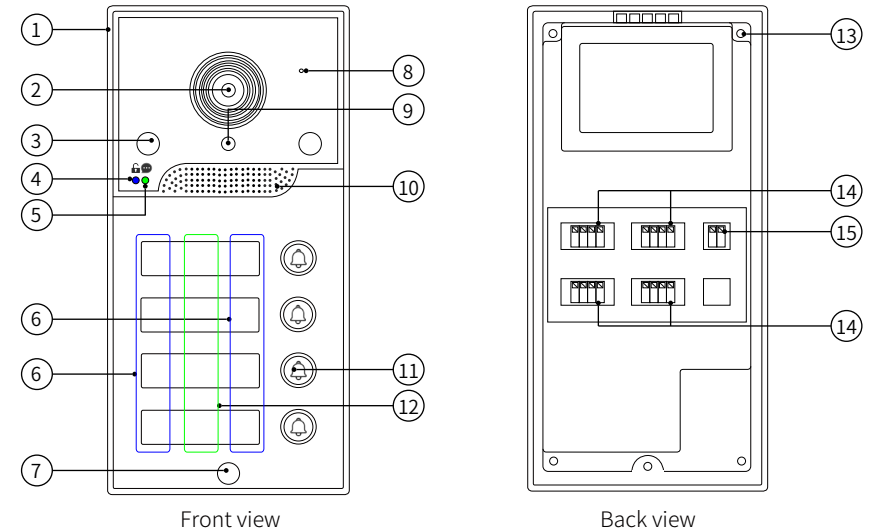


Figure 1

- | | | |
|--|---|--|
| ①. Rain cover | ⑥. Blue indicator standby status/ indicator unlock status | ⑪. Call button |
| ②. Camera | ⑦. Screw cap | ⑫. Green indicator Call / Monitor status |
| ③. White light full color night vision | ⑧. Microphone | ⑬. Screw hole |
| ④. Blue indicator unlock status | ⑨. Photoresistance | ⑭. 4P connector socket |
| ⑤. Green indicator Call / Monitor status | ⑩. Loudspeaker | ⑮. 2P port (Output 12V voltage signal) |

II. Functions of indoor unit

1. The power supply on indoor unit of this product is DC15 V 1.2 A, and its outdoor unit doesn't need separate power source;
2. Outdoor unit cable connection → The wiring sequence is from left to right: Red (Power) → Black (GND) → Blue (Audio) → Yellow (Video) (Figure 2, Figure 3);
3. The product runs normally and blue standby indicator on the front of the outdoor unit remains on after power supply is connected (Figure 1 ⑥);
4. Press any call button, so the red and green call/monitoring status indicator is lit up (Figure 1 ⑤, Figure 1 ⑫), and the display is also lit up meanwhile, hang up after talkback, and then call/monitoring indicator is off;
5. Press unlocking key of indoor unit, “” so green unlocking status indicator of outdoor device flashes for one time (Figure 1 ④);
6. No more than 4 screens can be connected to indoor unit in series. Indoor units in series can talk to each other. The cable length of two cores merging to one core can reach 200 m if the network cable of Unshielded Twisted Pair is used.

III. Wiring schematics

A. Push type wiring diagram

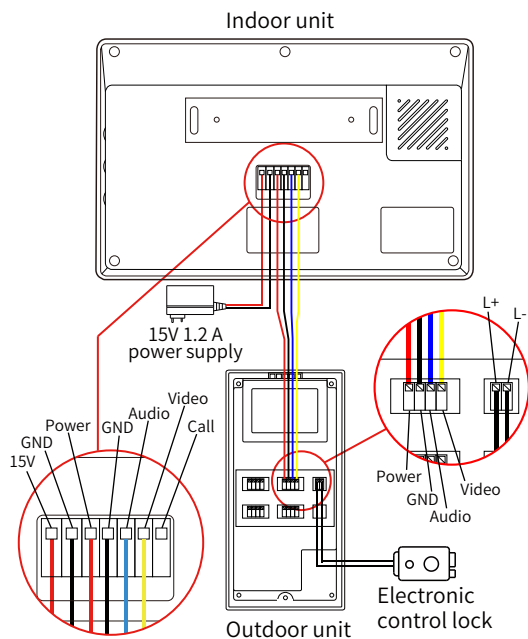


Figure 2

C. Wiring Diagram of Entry Electronic control lock

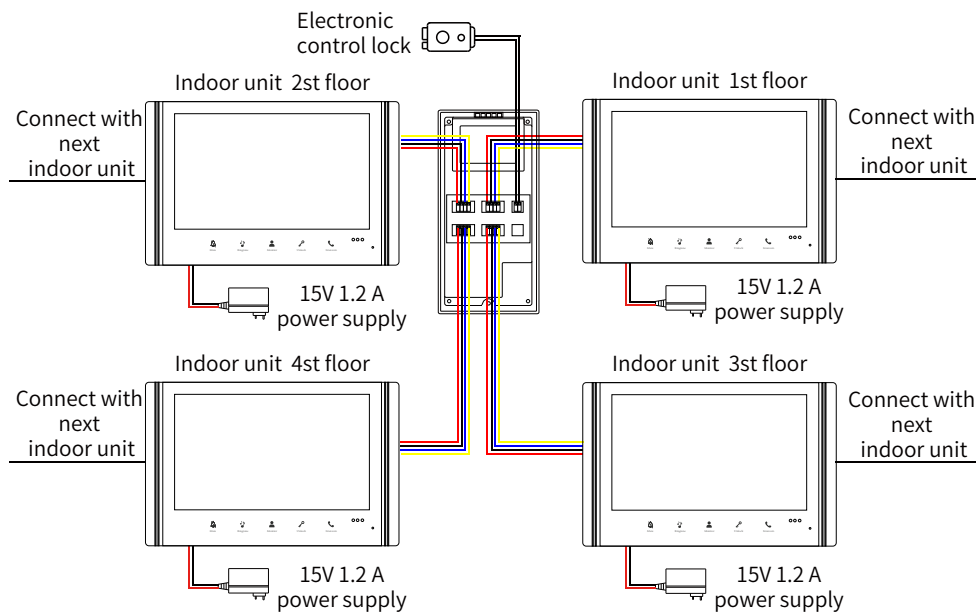


Figure 4

B. Port type wiring diagram

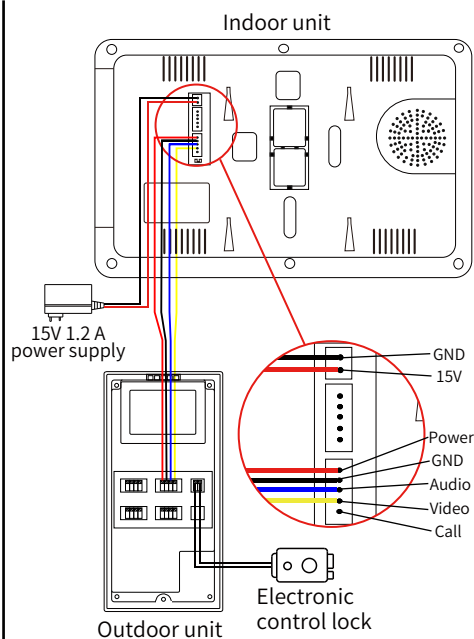


Figure 3

D. Wiring diagram of door access control system

(serial connection between indoor unit ,up to 4 indoor unit)

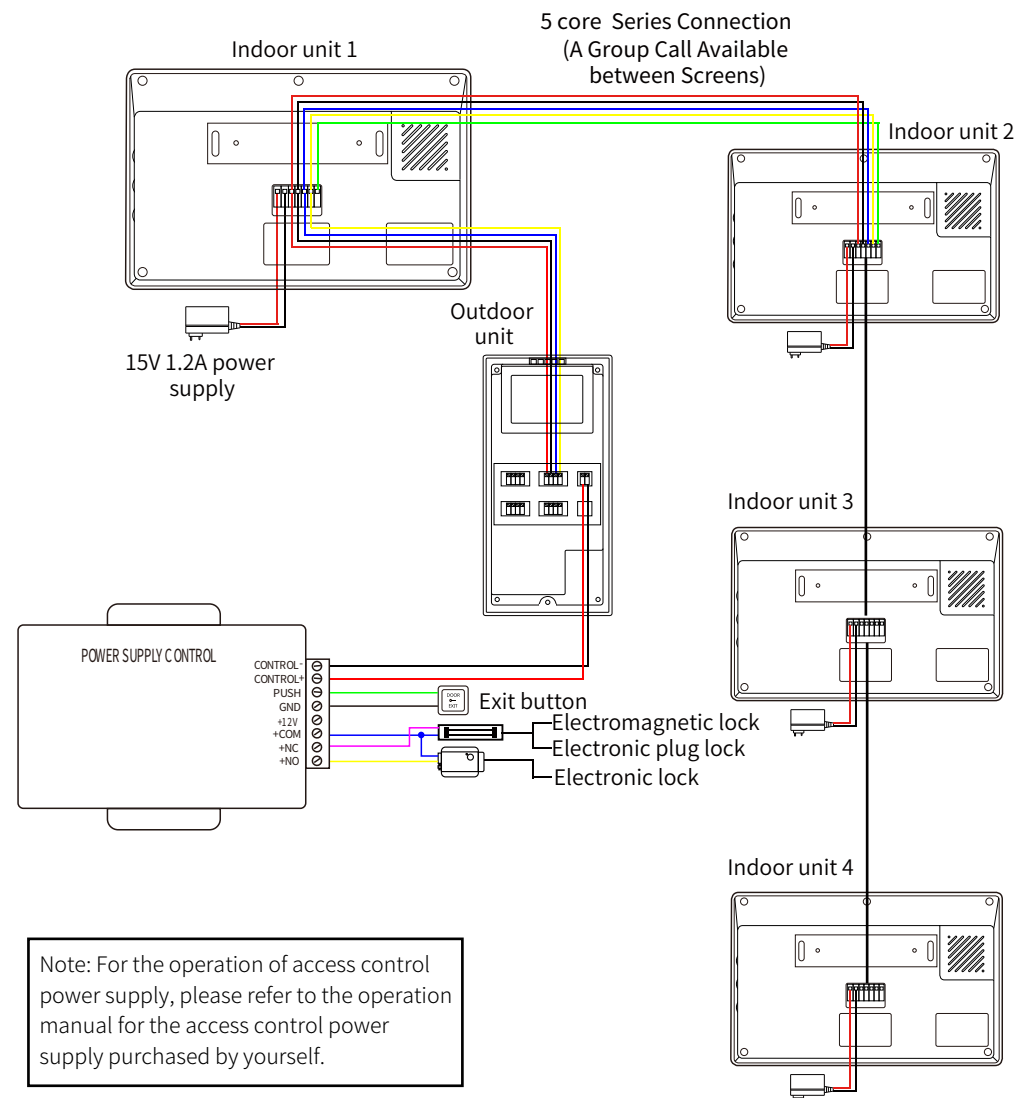


Figure 5

Note: As a calling line, the Call line can not be connected if one indoor unit is just required or talkback doesn't need between screens.