

User Manual

4-wire Analog Video Intercom Kit for Villa

Model: VK07-A50L Kit

Version: 1.0

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Important Issues

a. Test Before Installation

Open the box and make sure that all of the accessories are included. Use the original test cable to connect both the outdoor station and indoor monitor, to verify that they are working properly. Once confirmed, proceed with the installation.

Note: The wiring must follow the connection diagram in the manual exactly; otherwise, the system may not function properly or could damage the equipment. Please refer to the manual of the purchased access control power supply for its use, as it is not included in this set.

b. Maintenance

1. Do not use this product with any equipment not manufactured by our company.
2. Users must follow the user manual for installation and testing. If you have any questions, please contact our company for technical support.

I. Indoor Monitor

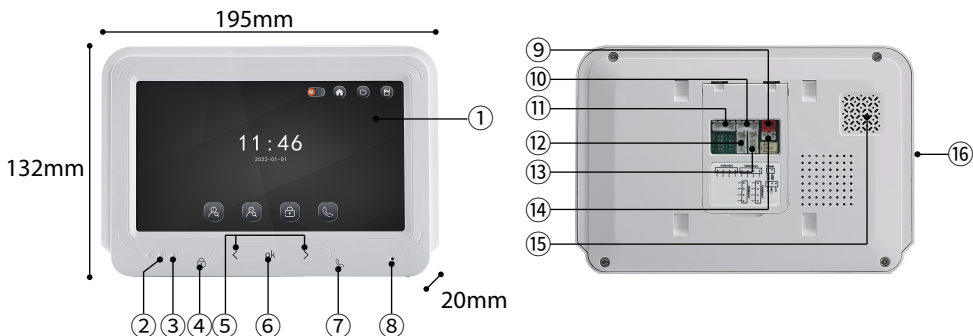


Figure (1)

- | | | |
|-----------------------------------|--|--|
| ①. IPS Display Screen | ⑦. Answer/Intercom/Return Shortcut Key | ⑫. Door Station 2 Wiring Port |
| ②. Auto-Recording Indicator Light | ⑧. Microphone | ⑬. Door Station 1 Wiring Port |
| ③. Power Indicator Light | ⑨. DC15V 1.2A Power Port | ⑭. 3P Lock Connection Port |
| ④. Quick Unlock Button | ⑩. Connect to Next Indoor Monitor | ⑮. Speaker |
| ⑤. Left/Right Selection Buttons | ⑪. Connect to Previous Indoor Monitor | ⑯. TF Card Slot (Supports up to 128GB) |
| ⑥. Confirm Button | | |

II. Product Specifications

Item	Parameter	Item	Parameter
Display Screen	IPS LCD Display	Manual Photo/Video Recording	Support
Resolution	1024*600	Automatic Video Recording	Support
Power Supply	DC15V 1.2A	Dual Lock Control	Support (Optional)
Power Consumption	Standby: ≤3W, Operation: ≤10W	Surveillance Duration	30 s
System Connection	RVV4	Intercom Duration	90 s
System Support	Indoor Monitor x4 + Outdoor Station x2	Video Recording Duration	30 s (Manual Recording) / 60 s (System Auto Recording)
Intercom Call	Supported	File Storage Method/Format	Loop Overwrite / jpg & avi
Ringtone	10 Tunes Available	Playback of Recorded Files	Playback on Device / Computer Playback (Folder "media")

III. Wiring Instructions

A. Precautions before Use

Regarding the use and selection of wires, please refer to the following information (the quality of the cable affects the video and voice transmission distance).

①. RVV 4 core wire

Distance ≤ 30m (4*0.5mm²); Distance ≤ 60m (4*1.0mm²)



Cat.5e/Cat.6e pure copper 8-core network cable (two cores of the network cable are used as one core, single core cannot be used normally)



(Cat.5e/Cat.6e pure copper 8-core network cable distance $\leq 60\text{m}$)

B. Wiring Diagram

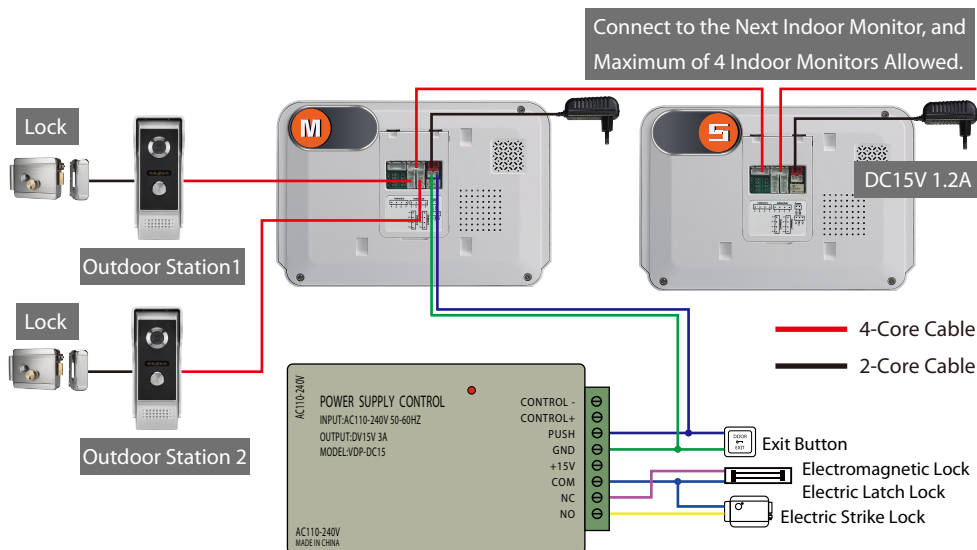
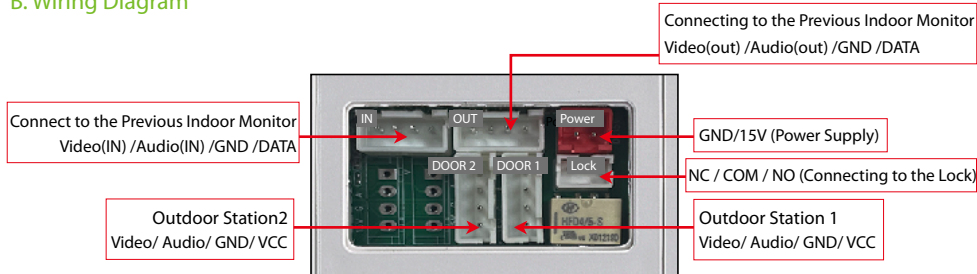
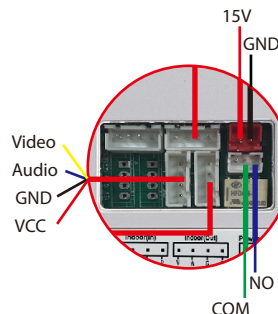


Figure (2)



When connecting two or more indoor monitors, one should be set as the master, and the others as slaves.



IV. Operating Instructions

A. Power On and Startup Test

Note:

- Insert the standard power supply into the indoor monitor and power it on. Wait for the system to start automatically and enter the main interface after 10 seconds.
- This product features touch buttons, and all operations are performed using the "Function Selection Key". For specific functions, refer to Figure (4).



Figure (3)

Function Selection Button	Function Description
	Quick Unlock Button
	Left/Right Selection Buttons
	Confirm Button
	Answer/Intercom/Return Shortcut Key

Figure (4)

B. Main Interface Features



Figure (5)

- Surveillance (Entrance Machine 1)
- Surveillance (Entrance Machine 2)
- Unlock (Activate the lock connected to the indoor monitor/optional feature)
- Internal Call
- Host/Slave Device Settings
- Mute Button for Recording
- Standby
- TF Card Management (TF Card Required)
- Playback Review
- TF Card Memory Capacity
- Format TF Card
- Time/Date Settings

C. Surveillance

Path: Select the surveillance icon for Entrance Machine 1/2 → Press the "ok" key → Enter the surveillance interface.



Figure (6)

Icon	Description/Instruction	Icon	Description/Instruction
	Basic Settings (For detailed instructions, see the following explanation)		Manual Snapshot (TF Card Required)
	Return (You can use the function selection key "  " to exit)		Manual Video Recording (TF Card Required)
	Ring Tone Selection		Unlock (Activate the lock connected to the entrance machine)
	Ring Tone Volume		Answer Call
	Brightness Settings		Hang Up Call
	Contrast Settings	Figure (7)	
	Saturation Settings		

Common Operation Questions:

a. Exit Surveillance View

Press the indoor monitor function selection key " " twice to exit, or select the icon " " → Press "OK" to exit the surveillance view.

b. Intercom with the Entrance Machine

During the surveillance process, press the indoor monitor function selection key " " to intercom with the entrance machine, with a duration of 90 seconds. Press the key " " again to end the intercom.

c. Unlocking

When the indoor monitor is in surveillance/intercom mode, press the indoor monitor function selection key " " to unlock the lock connected to the entrance machine.

d. Taking Photos and Recording Videos (TF Card Required)

- Use the function selection key to select the icon " " → Press "OK" to manually capture a photo;
- Use the function selection key to select the icon " " → Press "OK" to manually record a video, with a duration of 30 seconds.

e. Basic Settings

- You can adjust the indoor monitor's ringtone volume, screen brightness, contrast, and saturation;
- Use the function selection key to select the icon " " → Press "OK" to enter the settings interface → Press the function selection key " " to exit the settings.

D. Visitor Call



Figure (8)



Icon	Description/Instruction
	Adjust the Intercom Volume of the Indoor Monitor

Figure (9)

Common Operation Questions:

a. Answer the Call

When a visitor calls the entrance machine, the indoor monitor screen lights up and rings. Press the indoor monitor function selection key " " to answer the call.

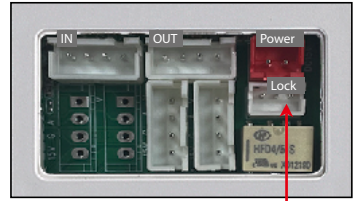
b. Hang Up the Call

When a visitor calls the entrance machine and you choose not to answer the call, use the indoor monitor function selection key "OK" to hang up the call.

c. Adjust the Indoor Monitor's Intercom Volume

During the intercom call, use the function selection key to select the icon "🔊" → Press "OK" to enter the settings interface.

E. Unlock (Optional Feature)



NC / COM / NO(Connect to the Lock)

Figure (10)

Common Operation Questions:

a. Unlock

When the indoor monitor is only on the main interface, you can unlock the lock connected to the indoor monitor by pressing the function key "🔒".

F. Internal Call Communication

Path: Press the function selection key "☎️" → Make an internal call to the connected indoor monitor.

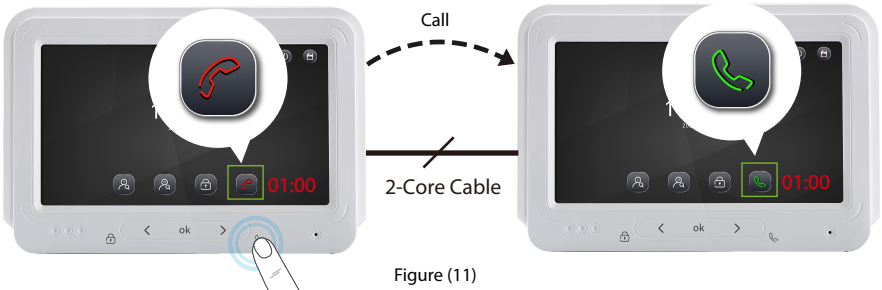


Figure (11)

G. Date/Time Settings

Path: Select the Date/Time Settings icon → Press the "OK" key → Enter the settings interface.

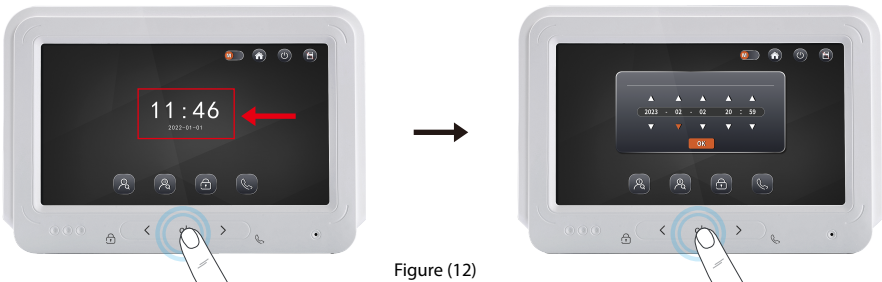


Figure (12)

Common Operation Questions:

a. Settings

After setting the date and time, use the function selection key to select the icon "OK" → Press "OK" to confirm and exit.

b. Exit Settings

Press the function selection key "  " to directly exit the settings interface without modifying the date and time.

H. TF Card Management (TF Card Required)

Path: Select the "TF Card Management"  icon → Press the "ok" key → A menu bar will pop up.

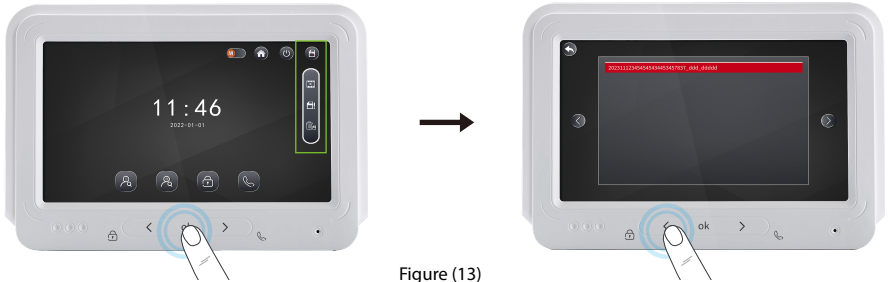


Figure (13)

Common Operation Questions:

a. Playback Review

View the recorded files by pressing the function selection key "  " to navigate to the recorded files, then press the "ok" key to view the files.

b. TF Card Memory

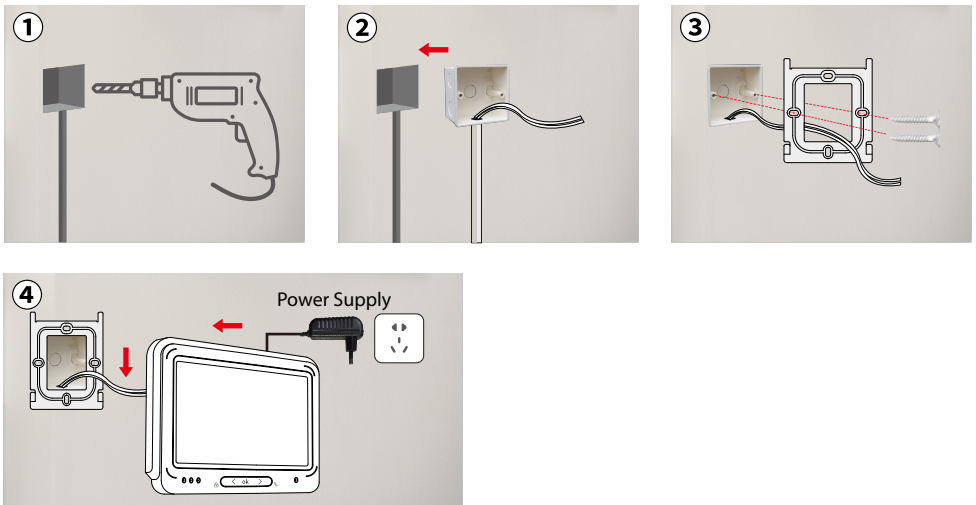
Check the remaining memory on the TF card.

c. Format TF Card

Format the TF card to clear its stored files.

V. Installation Instructions

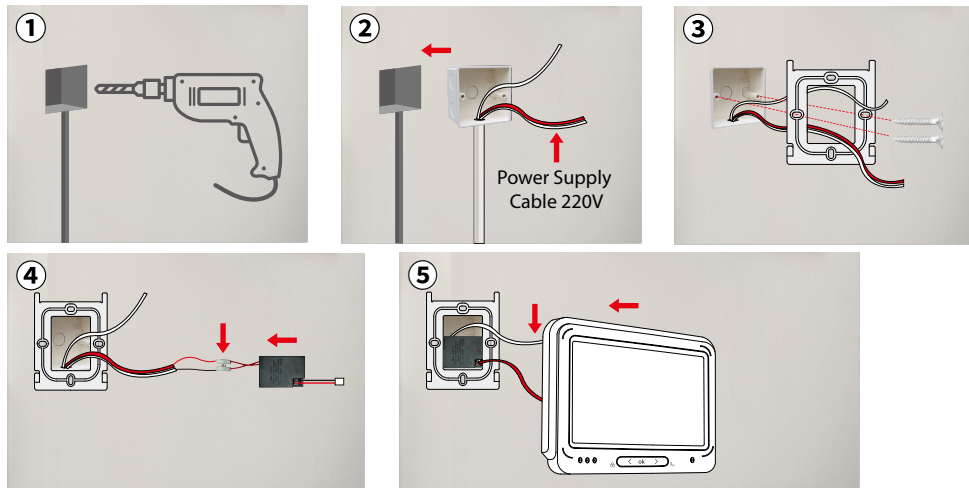
Method 1: External Power Supply Installation



Determine the Installation Location and Height: The reference installation height for the indoor monitor should be at a distance of 150 cm to 160 cm from the ground, with the center of the screen as the reference point.

- ①. **Position the Installation Location:** Mark the spot for the indoor monitor and use construction tools to cut a groove in the wall.
- ②. **Prepare the Wall:** Bury the junction box, thread the necessary cables for the device, and use cement mortar to fill and smooth the wall groove.
- ③. **Mount the Monitor Plate:** Secure the indoor monitor mounting plate to the buried junction box using screws.
- ④. **Connect and Mount the Indoor Monitor:** Correctly connect the cables to the indoor monitor, hang it on the mounting plate, plug in the power supply, and power it up to complete the installation.

Method 2: Built-in Power Supply Installation

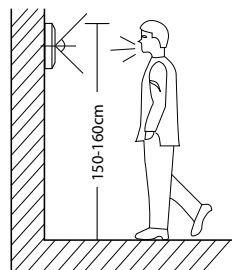


Determine the Installation Location and Height: The recommended installation height for the indoor monitor is 150 cm to 160 cm from the ground, with the camera center as the reference point.

- ①. **Prepare the Wall:** Mark the installation location, and use construction tools to cut a channel in the wall for the wiring.
- ②. **Install the Junction Box:** Place the junction box and run the necessary cables, including a **220V** power line from the electrical box. Then, fill the channel with cement mortar to make it flush and smooth.
- ③. **Mount the Monitor Plate:** Secure the indoor monitor's mounting plate to the wall-mounted box using screws.
- ④. **Connect the Power Supply:** With the power off, connect the live (hot) and neutral wires of the power supply to the power transformer. Organize the cables and place the power transformer into the wall-mounted box.
- ⑤. **Complete the Installation:** Correctly connect the cables to the indoor monitor, hang it on the wall mounting plate, and power up the device to complete the installation.

Note:

- 1). **Make sure that the power is off:** Before installation, make sure the power is turned off and follow all electrical safety precautions.
- 2). **Avoid Unauthorized Disassembly:** Do not disassemble the device without proper authorization to reduce the risk of electric shock.
- 3). **Handle with Care:** Do not drop, shake, or hit the device, as this may damage its components.
- 4). **Choose the Optimal Installation Location:** Install the device at a height of 150 cm from the ground, ensuring the horizontal viewing angle is ideal.
- 5). **Keep Away from Strong Radiation Sources:** Avoid installing the device near devices with strong radiation, such as televisions, computers, and video recorders.
- 6). **Maintain Proper Distance from AC Power:** Keep the device at least 60 cm away from AC power sources to prevent interference. Also, ensure it is kept away from water, magnetic fields, and chemicals.



VI. Outdoor Station

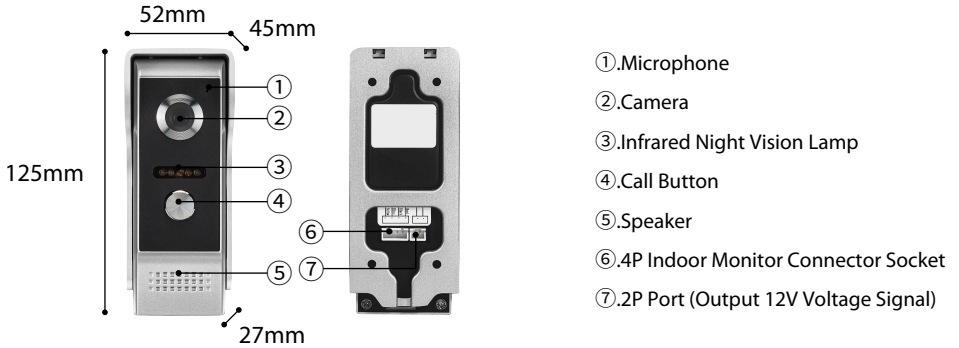


Figure (14)

VII. Product Parameters

Project	Parameter	Project	Parameter
Camera	2.0MP	View Angle	120°
Night Vision	Night vision illumination	Night Vision Distance	0.2 to 3M
Power Supply	Indoor unit power supply	Operating Temperature	-30°C to 60°C
Power	Standby: ≤2W Operating: ≤5W	Installation	Surface mount
Waterproof/Rainproof	IP65	Material	Aluminum alloy

VIII. Product Wiring Diagram

A. Wiring diagram for electric lock control

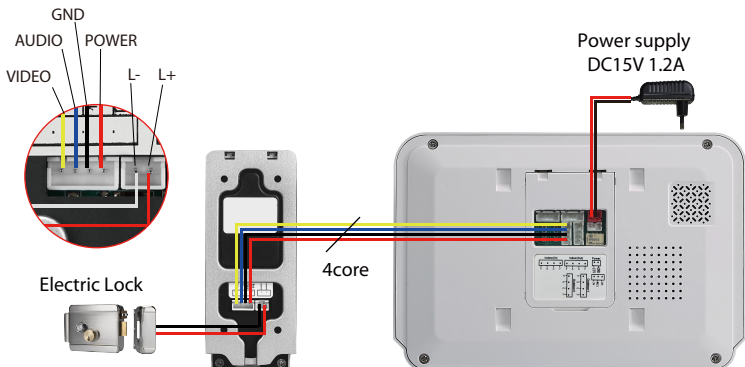


Figure (15)

B. Access Control Power Supply Wiring Diagram

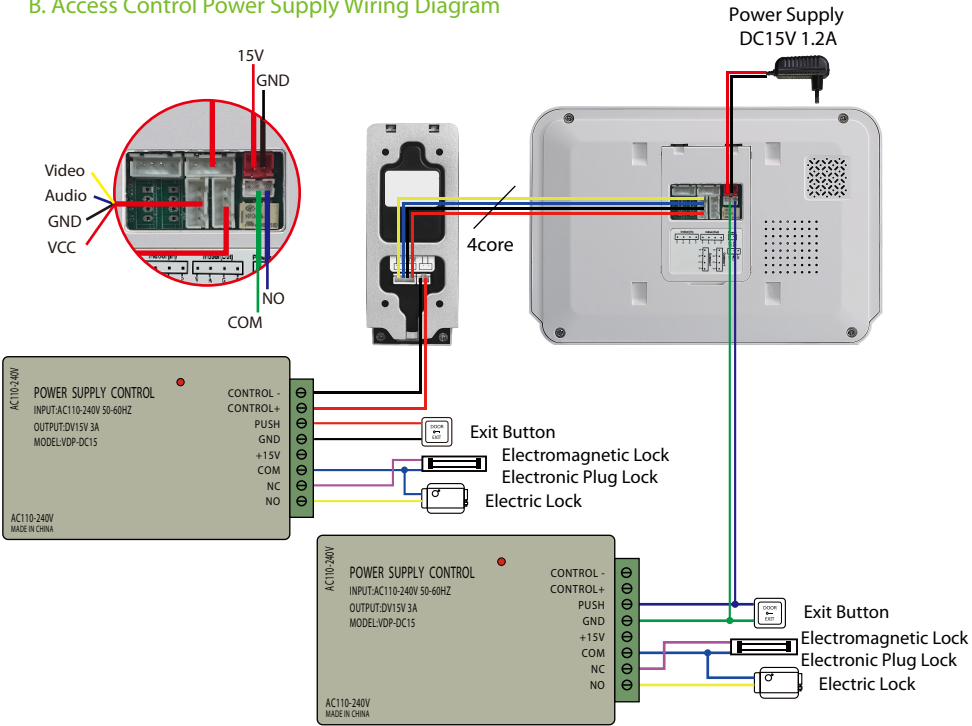
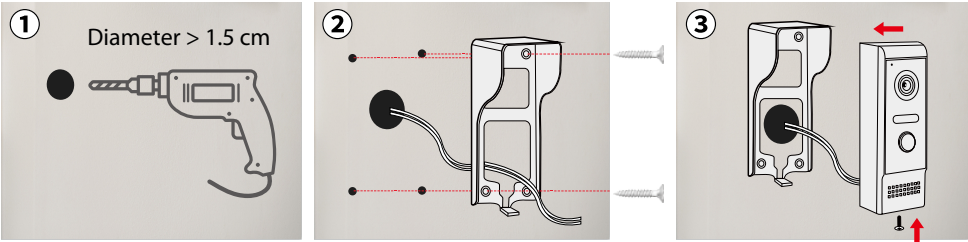


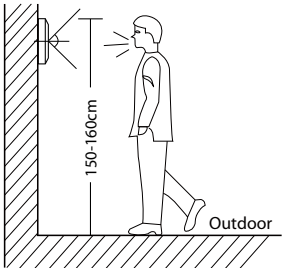
Figure (16)

IX. Installation Instructions



Determine the Installation Location and Height: The recommended installation height for the entrance machine is 150 cm to 160 cm from the ground, with the center of the camera as the reference point.

1. Position the Installation Location: Mark the installation spot and use construction tools to cut grooves in the wall.
2. Run the Necessary Cables: Thread the required cables for the device and secure the entrance machine's rain cover to the wall using screws.
3. Connect the Cables: Organize the cables, connect them correctly to the entrance machine, then hang the machine on the rain cover and secure it with screws.



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