

# Analog 4-Wire Video Intercom

## Quick Start Guide

**V1.0.1**

## General



This document mainly introduces structure, installation and wiring of the analog 4-wire video intercom.

## Device Upgrade

Do not cut off power supply during device upgrade. Power supply can be cut off only after the device has completed upgrade and has rebooted.

## Safety Instructions

The following categorized signal words with defined meaning might appear in the Manual.

Signal Words	Meaning
 <b>CAUTION</b>	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
 <b>Note</b>	Provides additional information as the emphasis and supplement to the text.

## Revision History

No.	Version	Revision Content	Release Date
1	V1.0.0	First release	February 2019

## Privacy Protection Notice

As the device user or data controller, you might collect personal data of others, such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures, including but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

## About the Guide

- The Guide is for reference only. If there is inconsistency between the Guide and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Guide.
- The Guide would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper User's Manual, CD-ROM, QR code or our

official website. If there is inconsistency between paper User's Manual and the electronic version, the electronic version shall prevail.

- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Guide. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Guide are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

# Important Safeguards and Warnings

The following description is the correct application method of the device. Please read the Guide carefully before use, in order to prevent danger and property loss. Strictly conform to the Guide during application and keep it properly after reading.

## Operating Requirement

- Do not place and install the device in an area exposed to direct sunlight or near heat generating device.
- Do not install the device in a humid, dusty or fuliginous area.
- Please keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Do not drip or splash liquids onto the device; don't put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Install the device at well-ventilated places; don't block its ventilation opening.
- Use the device only within rated input and output range.
- Do not dismantle the device arbitrarily.
- The device shall be used with screened network cables.

## Power Requirement

- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification!
- Please use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

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## 1.1 Introduction

The analog 4-wire video intercom consists of a voice intercom and a video intercom. It is applicable to buildings (for example residential buildings) for people to do voice communication and video communication. The voice intercom is installed outdoors and video intercom is installed indoors.

## 1.2 Feature

### Video intercom

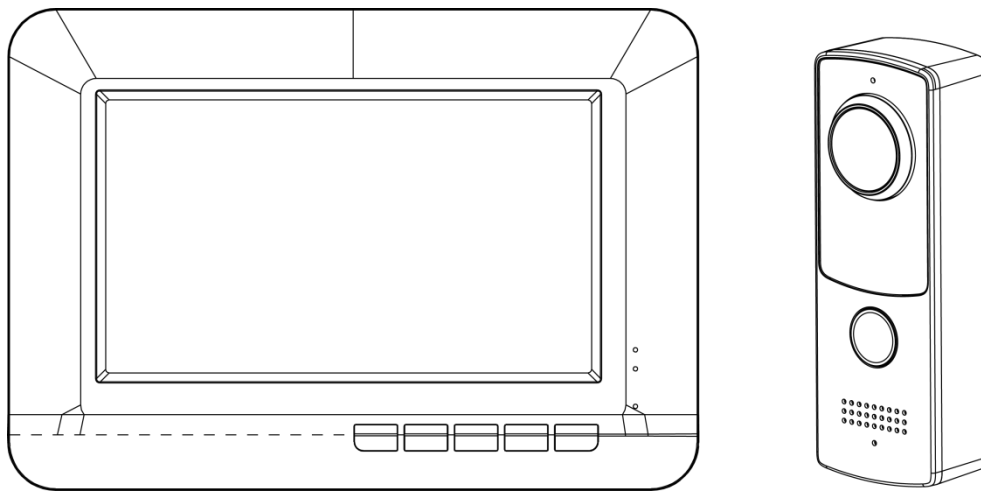
- Real-time video/voice communication
- Can be connected to three voice intercoms
- Can be connected to cameras (CVBS)
- Plug to use

### Voice intercom

- Real-time voice communication
- With self-adaptive IR fill light
- Sends phone calls to video intercoms
- With built-in camera (720×576@50I)

# 1.3 Appearance

Figure 1-1 Appearance



# 1.4 Front Panel

Figure 1-2 Front panel

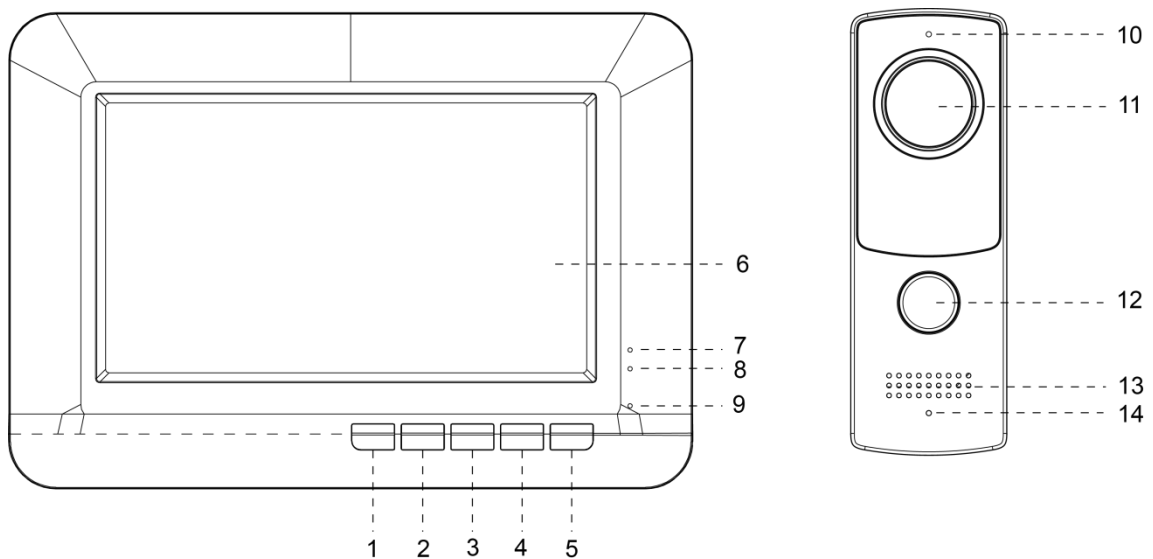





Table 1-1 Front panel description

No.	Icon	Description
1		During video/voice communication, press the button, the volume of the speaker will be decreased.
2		During video/voice communication, press the button, the volume of the speaker will be increased.
3		<ul style="list-style-type: none"> <li>If you hear the video intercom ringing, press the button, and then you can do voice communication with the person at the voice intercom.</li> <li>Press the button twice quickly, and you can hang up when someone is calling at the voice intercom.</li> </ul>
4		<ul style="list-style-type: none"> <li>If you hear the video intercom ringing, press the button, and then you</li> </ul>

No.	Icon	Description
		<p>can see the person at the voice intercom and talk to him/her.</p> <ul style="list-style-type: none"> <li>Press the button, and you can view real-time video of one voice intercom; press the button again, and you can view video of the second intercom; press the button for the third time, and you can view video of the analog camera.</li> </ul>
5		If you hear the video intercom ringing, press the button, and the door near which the voice intercom is installed will be opened.
6	–	LCD screen.
7		Power indicator.
8		Silent indicator. During communication, press – button until the silent indicator turns off, the video intercom will be silent.
9	–	Microphone.
10	–	Microphone.
11	–	Built-in camera.
12	–	Call button.
13	–	Speaker.
14	–	Water outlet. Liquid in the speaker can flow away through the outlet.

## 1.5 Rear Panel

Figure 1-3 Rear panel

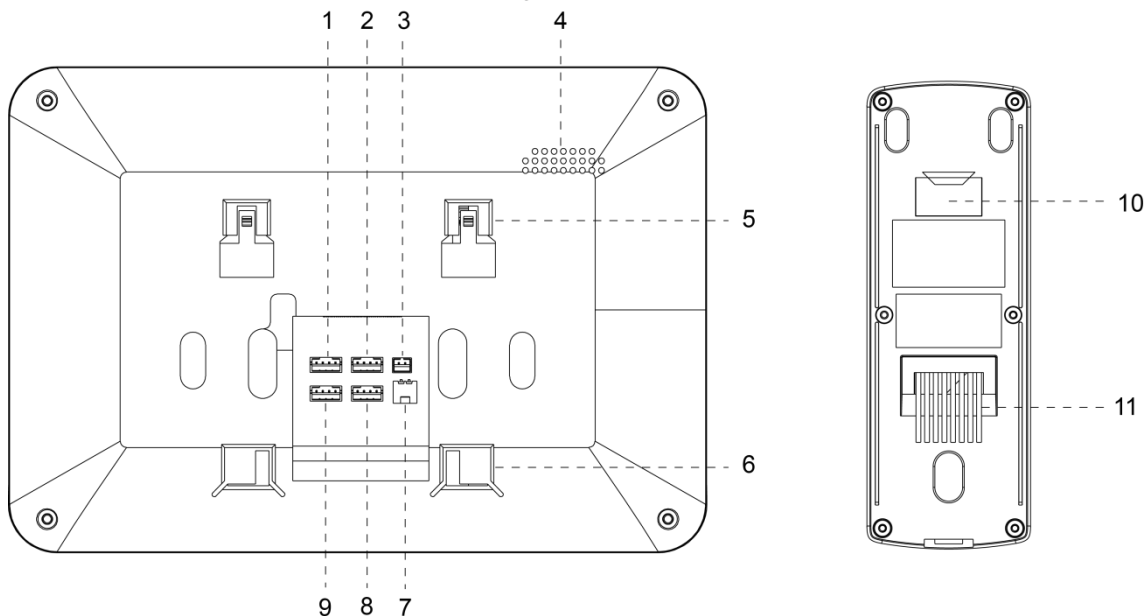


Table 1-2 Real panel description

No.	Description
1	From left to right: Power_1, VIDEO_1, AUDIO_1, and GND_1.
2	From left to right: Power_3, VIDEO_3, AUDIO_3, and GND_3.
3	From left to right: CAM_IN and GND.
4	Speaker.
5	Video intercom hanging slot.



<b>No.</b>	<b>Description</b>
6	Video intercom hanging slot.
7	POWER_IN and GND.
8	From left to right: Power_4, VIDEO_4, AUDIO_4, and GND_4.
9	From left to right: Power_2, VIDEO_2, AUDIO_2, and GND_2.
10	Voice intercom hanging slot.
11	Wires.

# 2 Installation and Wiring

## 2.1 Installation

### 2.1.1 Video Intercom Installation

You need to fix the bracket on the wall by screws, and then hang the video intercom on the bracket. See Figure 2-1.

Figure 2-1 Video intercom installation

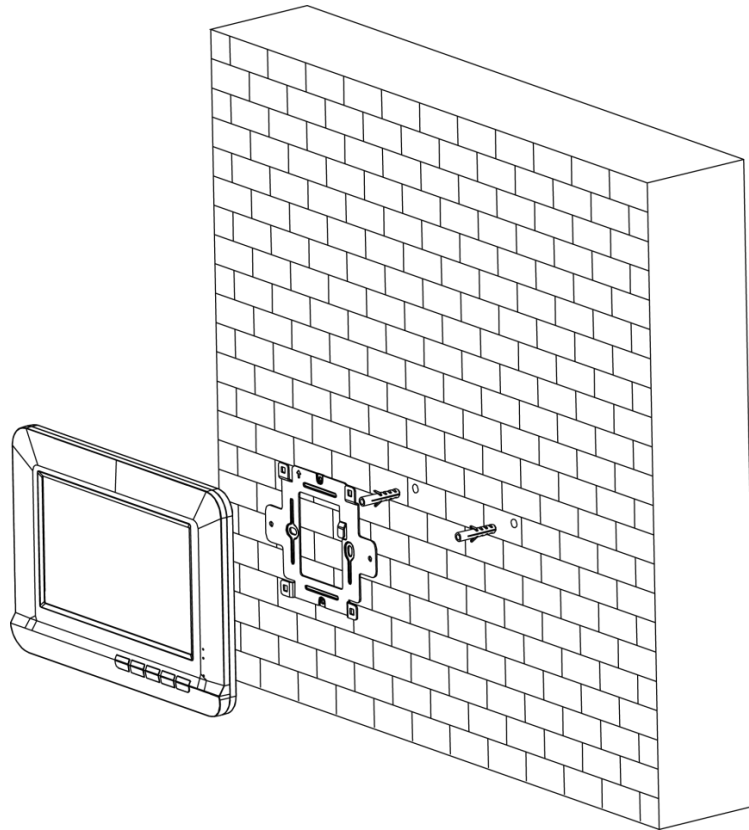
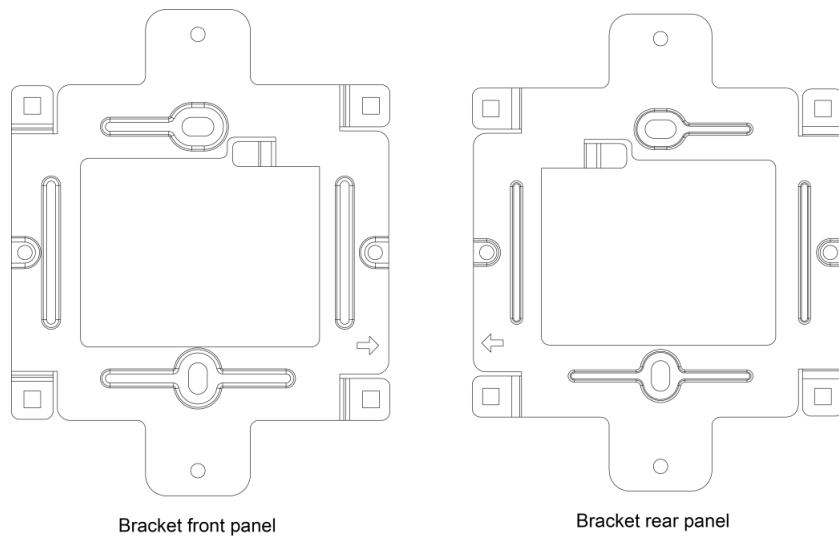


Figure 2-2 Bracket



## 2.1.2 Installation of the Voice Intercom

You can install the voice intercom bracket on the wall, and then hang the voice intercom on the bracket; you can also install the voice intercom cover on the wall, and then hang the voice intercom on the cover. See Figure 2-3 and Figure 2-4.

Figure 2-3

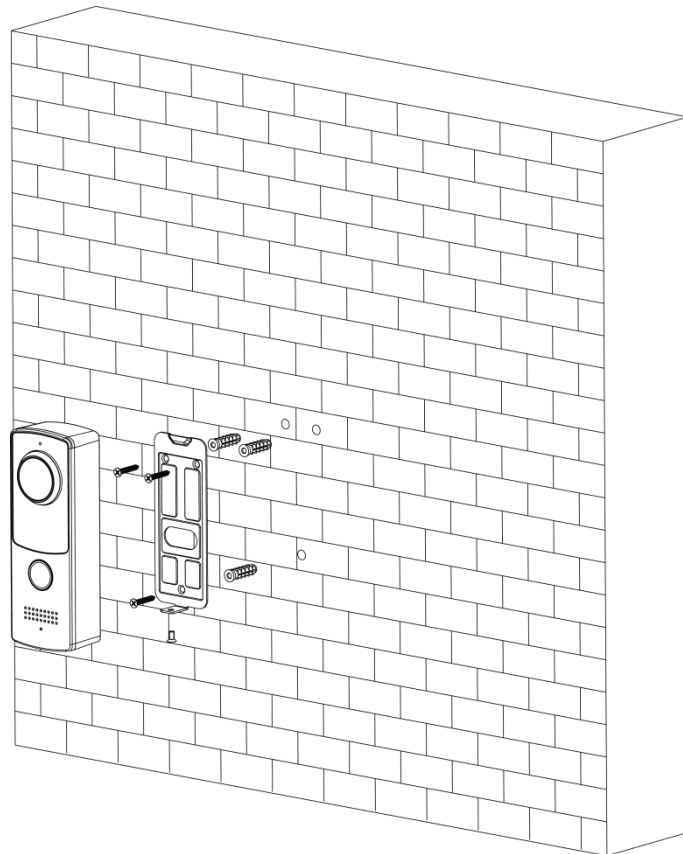
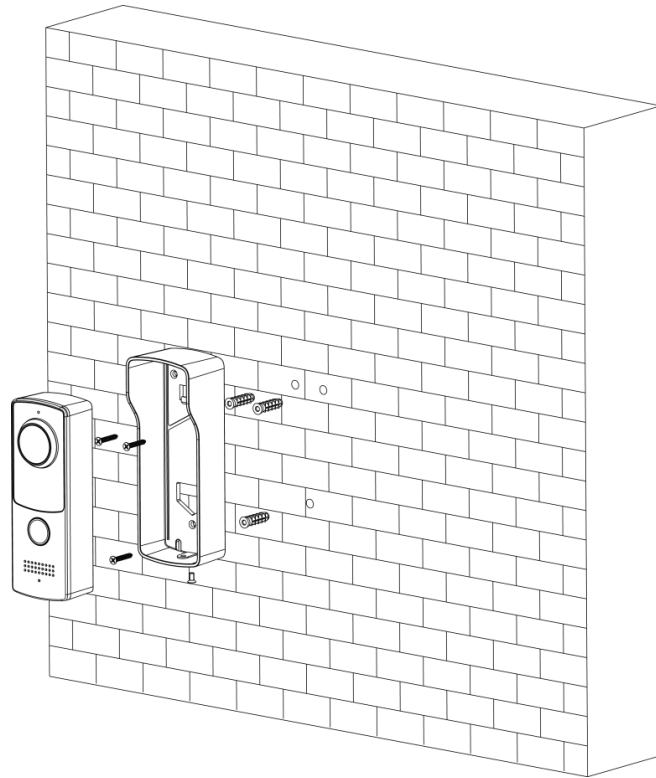


Figure 2-4

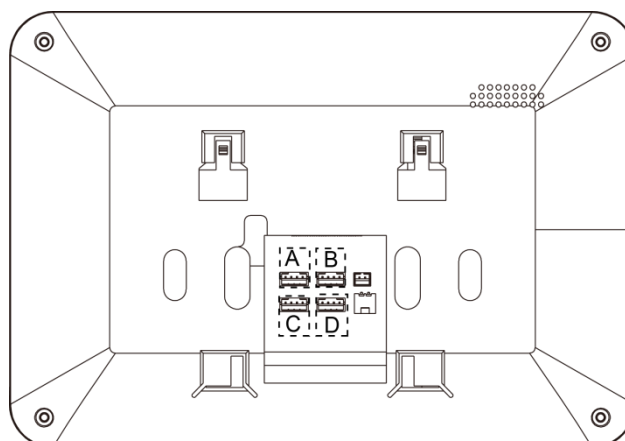


## 2.2 Wiring Preparation

Before wiring, you need to know port connection rules and cord specifications.

### 2.2.1 Port Connection Rule

Figure 2-5



- 4-wire port A of a video intercom can be connected to 4-wire port C of another video intercom to do data communication;
- 4-wire port B of a video intercom can be connected to 4-wire port D of another video intercom to do data communication;
- 4-wire port A of a video intercom cannot be connected to 4-wire port B or D of another video intercom to do data communication;

- 4-wire port C of a video intercom cannot be connected to 4-wire port B or D of another video intercom to do data communication;

## 2.2.2 Cord Specification

Depending on the distance between the voice intercom and video intercom, you need to select RVV4 cords of different specifications. See Table 2-1.

Table 2-1 Cord specification

Transmission distance (TD)	RVV4 cord specification
TD≤10m	RVV4×0.2mm <sup>2</sup>
10m<TD≤30m	RVV4×0.5mm <sup>2</sup>
30m<TD≤50m	RVV4×0.75mm <sup>2</sup>



If the distance between the voice intercom and video intercom is farther than 50m, please use coaxial cables.

## 2.3 Wiring



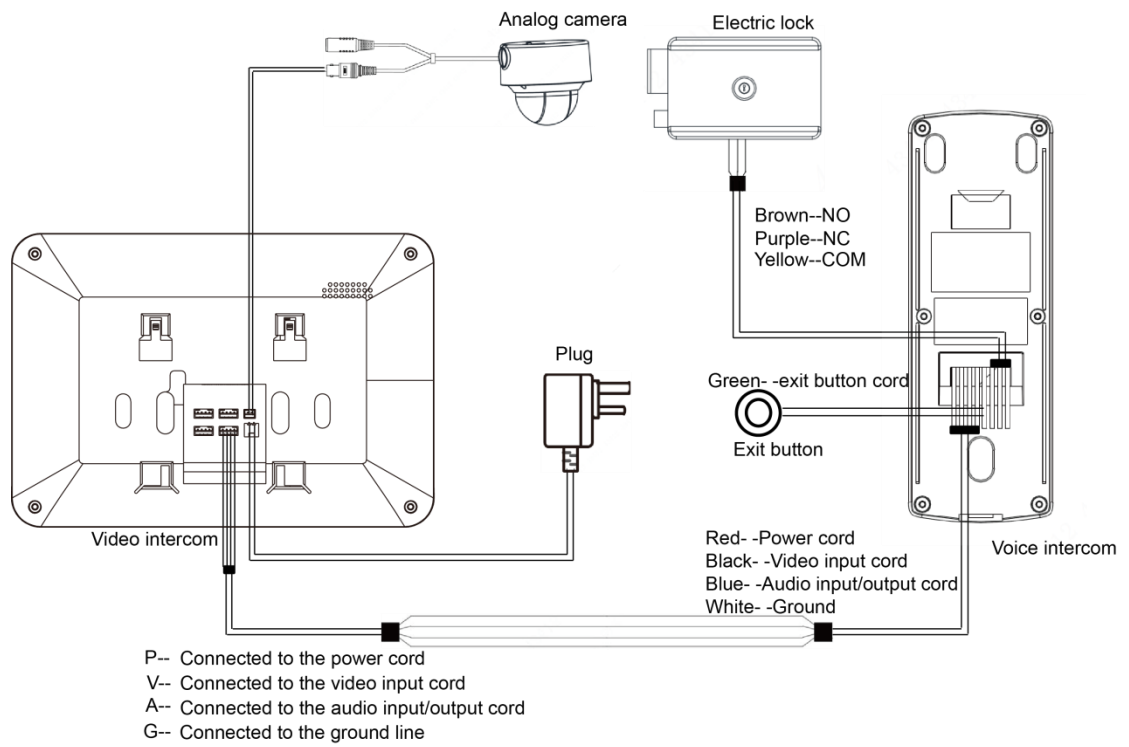
### CAUTION

- Do not pull the cords violently; otherwise the cords might be broken.
- During wiring, wrap the cord joints with insulated rubber tape; otherwise short circuit might occur.

At most 2 voice intercoms and 3 video intercoms can be wired in one communication system.

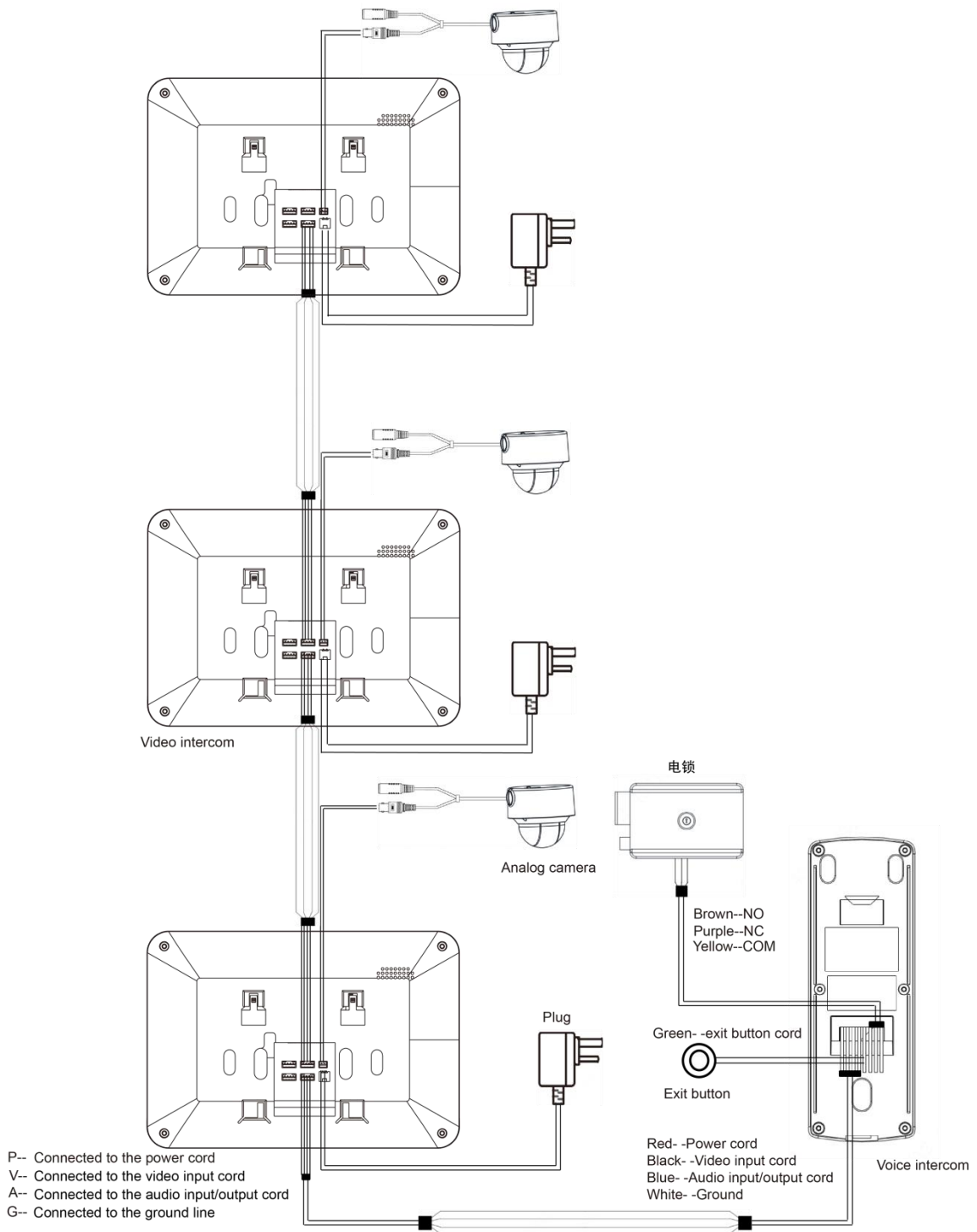
## 2.3.1 One Voice Intercom and One Video Intercom

Figure 2-6 Wiring



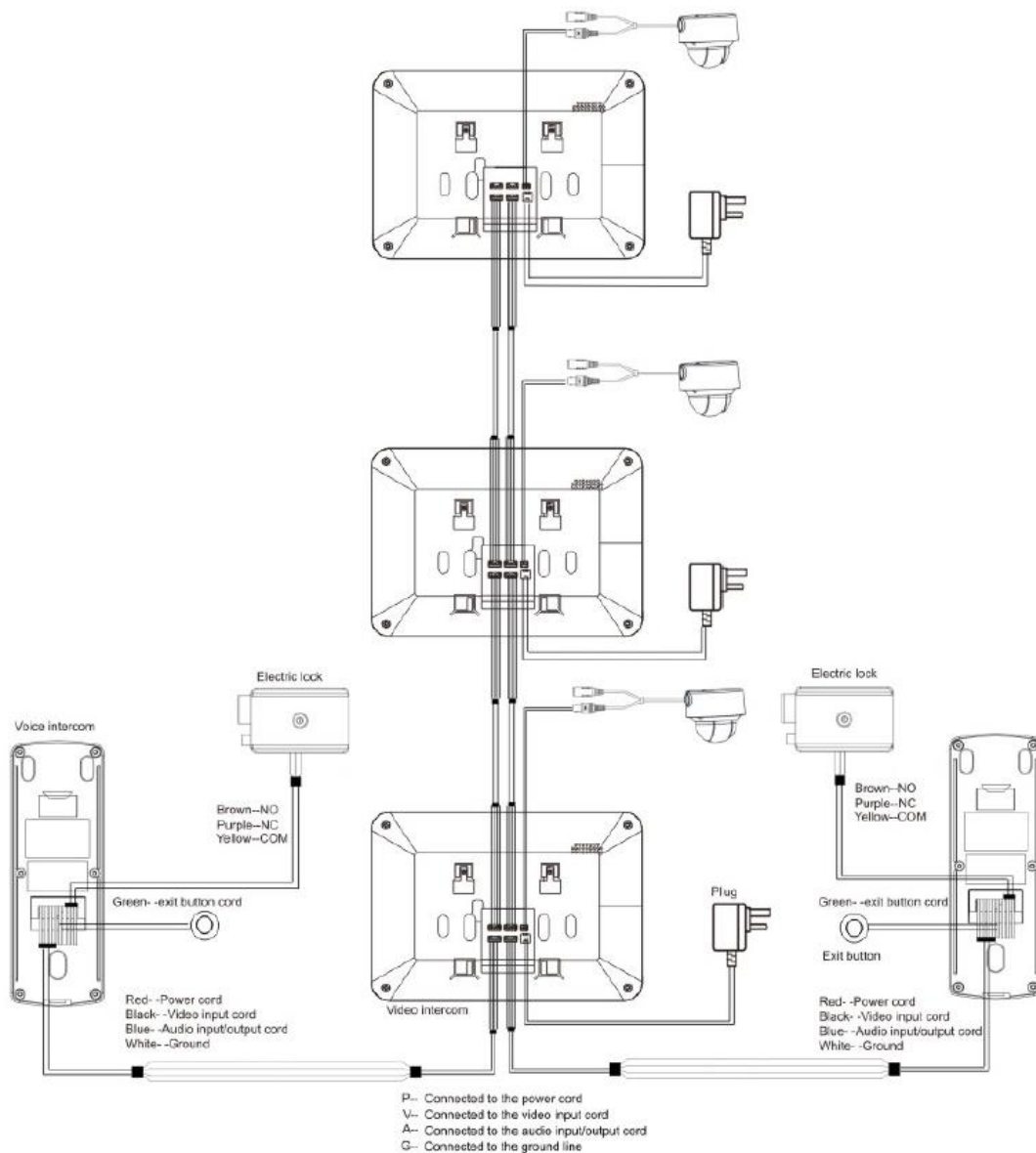
## 2.3.2 Three Voice Intercoms and One Video Intercom

Figure 2-7 Wiring



## 2.3.3 Two Voice Intercoms and Three Video Intercoms

Figure 2-8 Wiring



The recommended analog cameras (CVBS) are HAC 1230 series.