4-Wire Hybrid Indoor Monitor

Quick Start Guide

V1.0.0

Foreword

This manual introduces the configurations on the webpage of 4-wire indoor monitor. Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
	Provides methods to help you solve a problem or save time.
NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.0	First release.	October 2023

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguard and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Operation Requirements

- Check whether the power supply is correct before use.
- Do not unplug the power cord on the side of the device while the adapter is powered on.
- Operate the device within the rated range of power input and output.
- Transport, use and store the device under allowed humidity and temperature conditions.
- If the device is powered off for longer than a month, it should be placed in its original package and sealed. Make sure to keep it away from moisture, and store it under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the device, and make sure that there is no object filled with liquid on the device to prevent liquid from flowing into it.
- Do not disassemble the device without professional instruction.

Installation Requirements

WARNING

- Do not connect the power adapter to the device while the adapter is powered on.
- Strictly comply with the local electric safety code and standards. Make sure the ambient voltage is stable and meets the power supply requirements of the device.
- Do not connect the device to two or more kinds of power supplies, to avoid damage to the device.
- Improper use of the battery might result in a fire or explosion.

- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Do not place the device in a place exposed to sunlight or near heat sources.
- Keep the device away from dampness, dust, and soot.
- Install the device on a stable surface to prevent it from falling.
- Install the device in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- Use the power cords that are recommended for the region and conform to the rated power specifications.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the device label.
- The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective earthing.

1 Components

There might be slight differences in the real panel among different models. But they have the same function ports.

Figure 1-1 Components

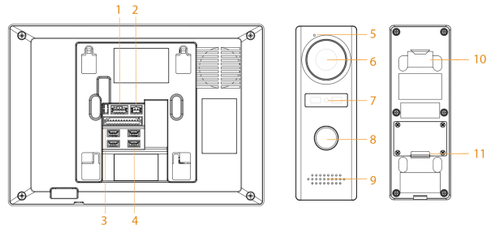


Table 1-1 Components description

No.	Description
1	RS-485 port.
2	Power port.
3	Alarm port.
4	4-wire port. For details, see Figure 1-2.
5	Microphone.
6	Built-in camera.
7	Power indicator.
8	Call button.
9	Speaker.
10	VTO hanging slot.
11	Function port. For details, see Figure 1-3.

Figure 1-2 4-wire port of VTH

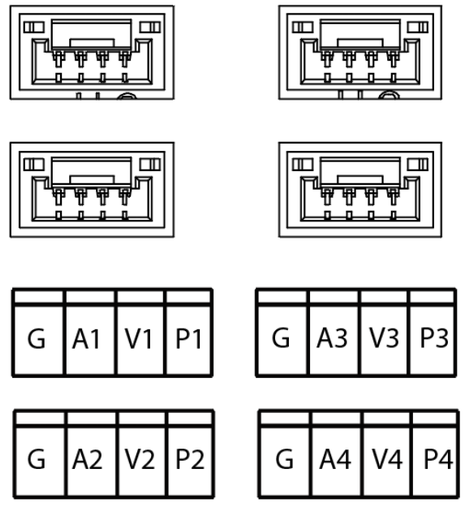
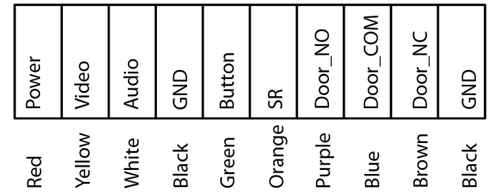


Table 1-2 Port description

Port	Description
G	Connect to the ground line.
A	Connect to the audio input/output cable.
V	Connect to the video input cable.
P	Connect to the power cable.

Figure 1-3 Function port of VTO

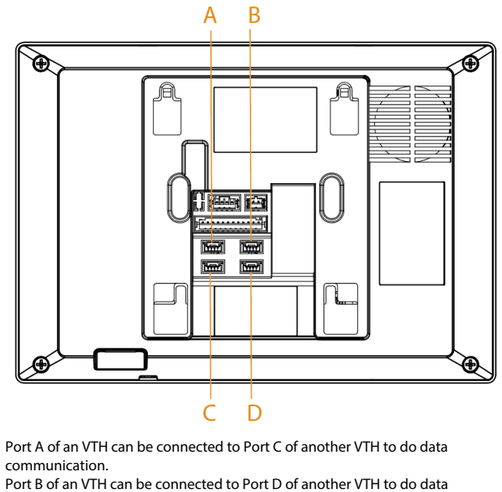


2 Wiring

2.1 Preparations

2.1.1 Port Connection Rules

Figure 2-1 Port connection rule



- Port A of an VTH can be connected to Port C of another VTH to do data communication.
- Port B of an VTH can be connected to Port D of another VTH to do data communication.
- Port A of an VTH cannot be connected to Port B or D of another VTH to do data communication.
- Port C of an VTH cannot be connected to Port B or D of another VTH to do data communication.

2.1.2 Cable Specification

Depending on the distance between the VTO and VTH, you need to select RVV4 cables of different specifications.

Table 2-1 Cable specification

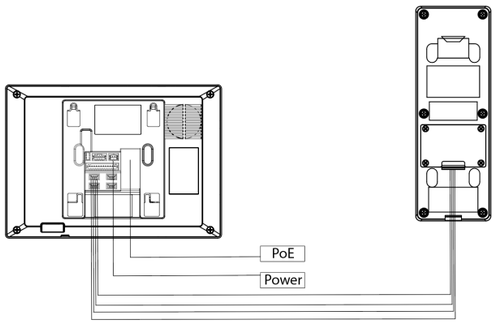
Transmission Distance (TD)	RVV4 Cable Specification
TD ≤10 m	RVV4 × 0.3 mm^2
TD ≤30 m	RVV4 × 0.5 mm^2
TD ≤50 m	RVV4 × 0.75 mm^2

- Do not pull the cables violently.
- During wiring, wrap the cable joints with insulated rubber tape to prevent short circuit.

If the distance between the VTO and VTH is more than 50 m, use coaxial cables.

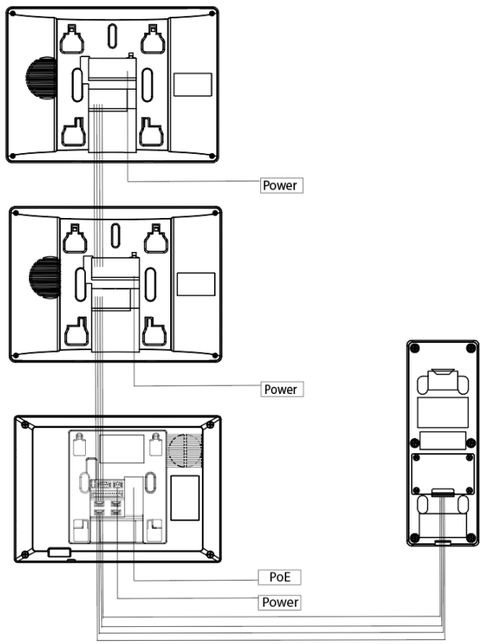
2.2 Wiring One VTO and One VTH

Figure 2-2 Wiring



2.3 Wiring One VTO and Three VTHs

Figure 2-3 Wiring



2.4 Wiring Two VTOs and Three VTHs

Figure 2-4 Wiring

