Villa Door Station OEU-202S-X Installation Guide

V1.0.0

Contents

NOTE!

This document is intended to provide guidance on commissioning and installing visual intercom door station to ensure normal business operation. It is intended for company's checkpoint installation and maintenance engineers, and implementation and maintenance staff of integrators and contractors. It is strongly recommended to read through this guide before starting device installation and commissioning.

Safety Symbols

The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.

Symbol	Description
	Warning! Indicates a hazardous situation which, if not avoided, could result in bodily injury or death
	Caution! Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product
	Note! Indicates useful or supplemental information about the use of product.

1 Overview

OEU-202S-HMK2 and OEU-202S-HMK4 are terminal devices in the digital building intercom system, with functions of visual intercom, video surveillance functions, etc., providing a safe and comfortable living environment for residents. It can be widely used in residential villas.

Figure 1-1 Villa Door Station OEU-202S-HMK2

Figure 1-2 Villa Door Station OEU-202S-HMK4

2 Site Survey

Before the site survey, you need to have a comprehensive understanding of the project, including background, scale, quality objectives, cycle, bidding documents, contracts, design plans, and drawings. Then you can conduct a survey on site based on the above information, and combine the survey results with the customer's needs to decide the exact installation location of the device. Check whether the site meets requirements:

- Determine the specific installation location.
- Make sure that there is accessible power and network at the installation site.
- Make sure the wall is repairable after being grooved.
- Avoid electricity and communication pipelines in the wall during construction.

3 Safety Instructions

- Ensure that the device is placed or installed firmly and reliably.
- Ensure that the device is installed properly before you connect it to power, otherwise it may cause personal injury and device failure.
- Disconnect the power before moving the device, otherwise it may cause electric shock.
- Keep the device away from liquid of any kind, it may damage the device and cause fire or electric shock.
- Take waterproof measures for devices installed outdoors.
- Use a ground-protected power outlet.
- Ensure that the device is grounded properly if grounding is required.
- Be sure to strictly observe local electrical safety codes.
- Ensure that the power supply meets the device requirements. The power supply shall be greater than the sum of the power consumption of all devices.
- Ensure that the temperature, humidity, dust, corrosive gas, electromagnetic radiation indicators of the site where the device is placed or installed meet the requirements.

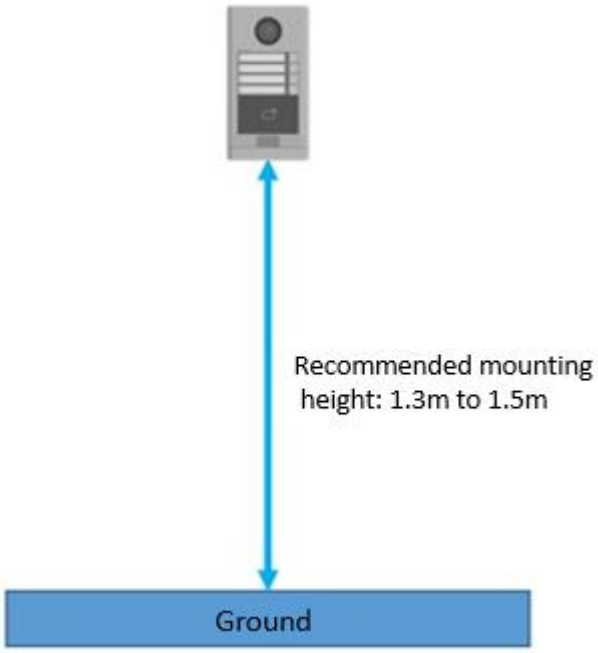
4 Preparations

Screwdriver set (Phillips screwdriver, torx screwdriver head)	 Used to secure the device.
Marker	Used to mark mounting holes.
Tape measure	 Used to measure dimensions.
Electric hammer drill + 6mm drill bit	 Used to drill holes.
Insulation waterproof tape	Used to wrap the connection part of each cable.
ESD wrist strap or ESD gloves	Used to prevent static electricity during the wiring.

5 Installation

5.1 Determine Installation Location

1. It is recommended that the bottom of the door station is 1.3 to 1.5 meters above the ground, and the distance can be adjusted based on the on-site situation, so as to ensure that the camera can capture the complete face.

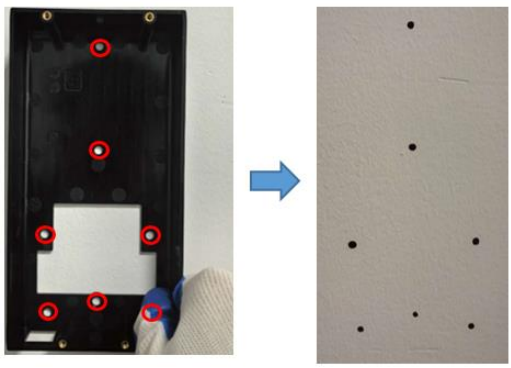


2. Select a backlight and rainproof position.

5.2 Install Device

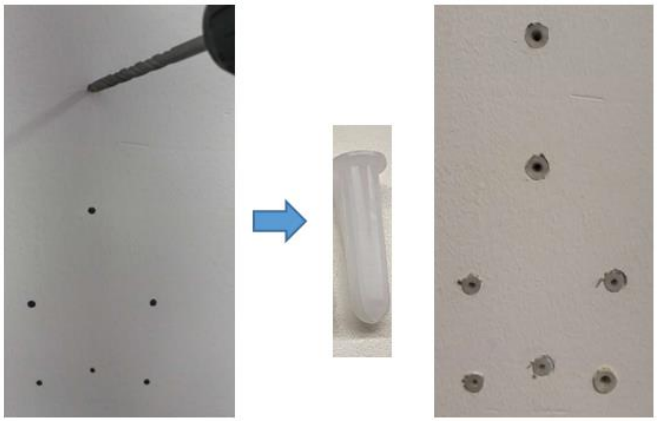
1. Place the mounting bracket to the desired mounting position (align the leading-out groove of the bracket with that on the wall), and mark mounting holes with a marker.

Figure 5-1 Determine Holes



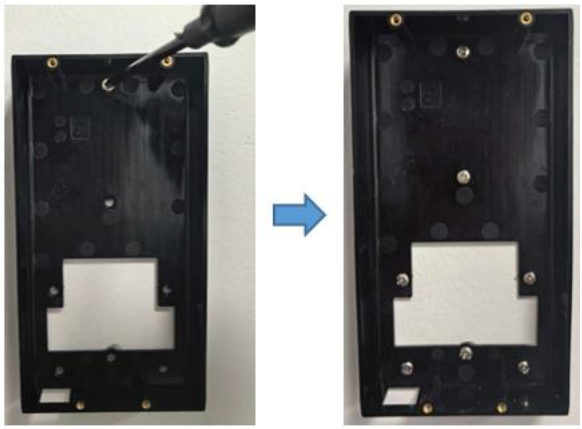
2. Use a Ø6mm drill bit to drill 7 holes on the marked positions, and then insert expansion bolts into the holes.

Figure 5-2 Drill Holes



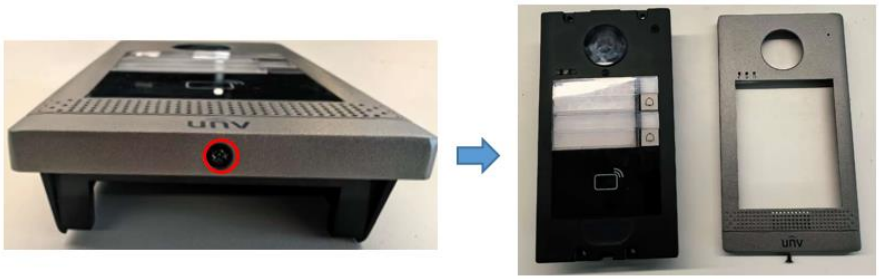
3. Lead cables out from the cable groove of the bracket, align holes of bracket with expansion bolt holes on the wall, and secure the bracket on the wall with screws.

Figure 5-3 Secure Mounting Bracket



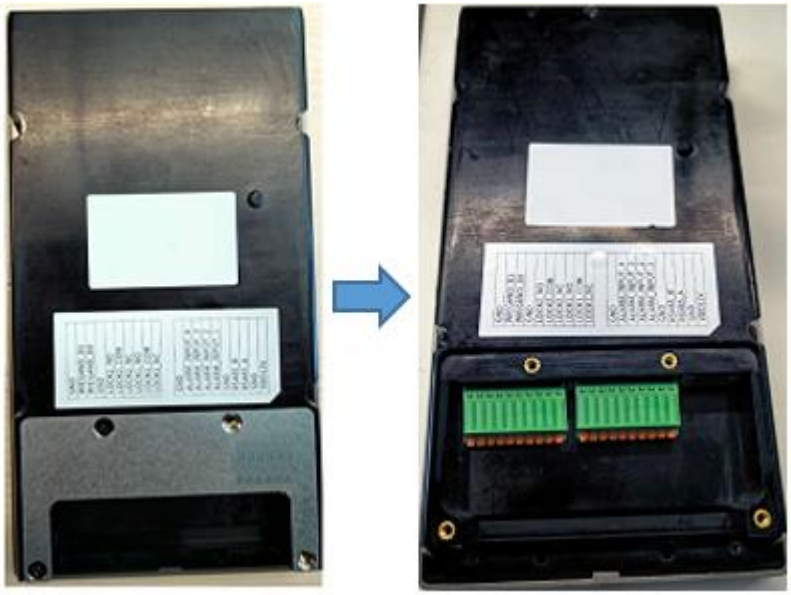
4. Loosen the screw at the door station's bottom, and then remove the front panel.

Figure 5-4 Remove Front Panel



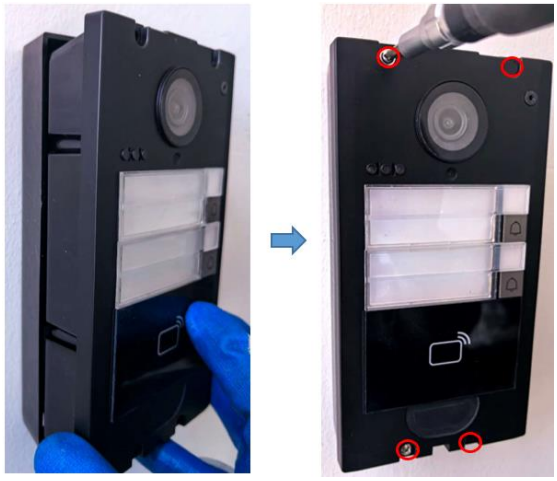
5. Remove the dust cover on the real panel of the door station, connect the cables, and then reinstall the dust cover (see 6.2 Wiring for cable connection).

Figure 5-5 Wire Door Station



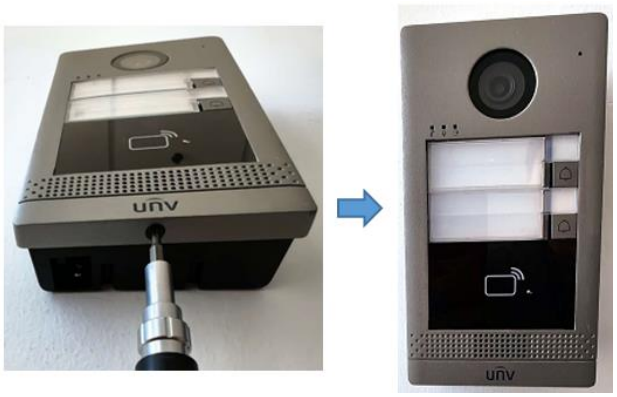
6. Clip the station into the bracket to make sure the four holes of the station are aligned with those of the bracket, insert the screws into holes, and then tighten them.

Figure 5-6 Secure Door Station



7. Reinstall the front panel, insert the screw into the bottom of the station, and then tighten it.

Figure 5-7 Install Front Panel



5.3 Install Nameplate

Insert a flathead screwdriver into the gap between the nameplate shell and the doorbell button, and prise the plastic nameplate shell. Put the nameplate on the rubber pad, and reinstall the plastic shell to the original position on the door station.

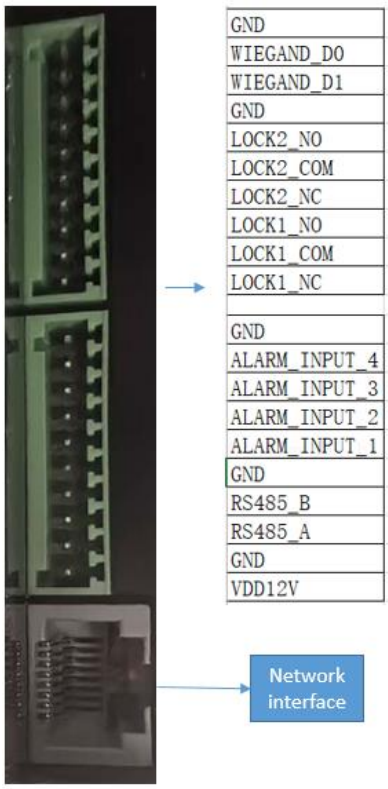
Figure 5-8 Install Nameplate

6 Cable Connection

6.1 Interfaces

Note: It is recommended to use the RVV0.75 signal cable.

Figure 6-1 Interfaces



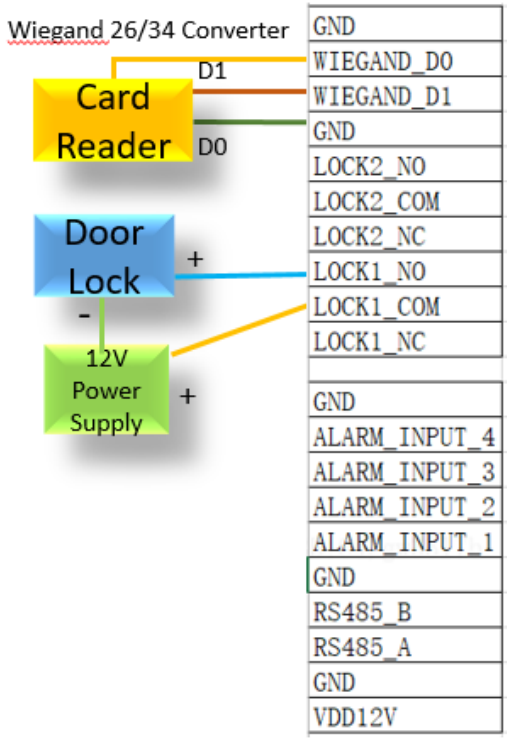
6.2 Wiring

6.2.1 Wiring Door Lock and Card Reader

Connect the door lock and card reader to the door station.

1. Connect the positive end of the door lock to LOCK_NC or LOCK_NO according to its N.O. or N.C. type. Connect the anode of the power supply to LOCK_COM, and the cathode to the negative end of the door lock.
2. Connect the Wiegand D0 and D1 line of the card reader to WIEGAND_D0 and WIEGAND_D1 of the station respectively, and connect the Wiegand converter to GND as needed (Wiegand 34 mode if the Wiegand cable is grounded; while Wiegand 26 mode if the Wiegand cable is not grounded).

Figure 6-2 Door Lock and Card Reader Wiring



6.2.2 Wiring Sensor

Connect the external sensor (such as smoke sensor and infrared sensor) to the door station.

Connect the positive end of the external device to ALARM_INPUT, and the negative end to GND.

Figure 6-3 Sensor Wiring