

Villa Door Station OEU-201S-HMK-W Installation Guide

V1.0.0



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Revision Records

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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 Uniview'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 site design and subsequent actions.

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-201S-HMK-W is a terminal device in the digital building intercom system, with functions of visual intercom, video surveillance, etc., providing a safe and comfortable living environment for residents. It can be widely used in residential villas.



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 damage.

- 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, and electromagnetic radiation indicators of the site where the device is placed or installed meet the requirements.

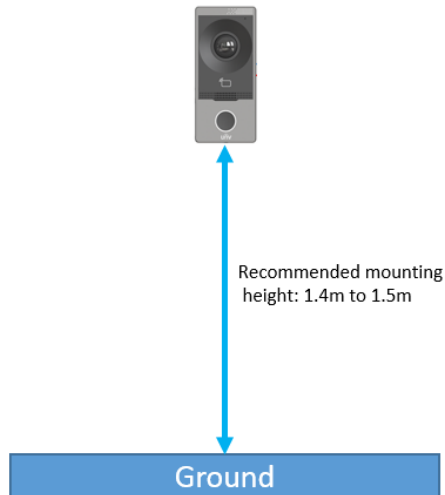
4 Preparations

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

5 Installation

5.1 Determine Installation Location

1. It is recommended that the bottom of the door station is 1.4 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.

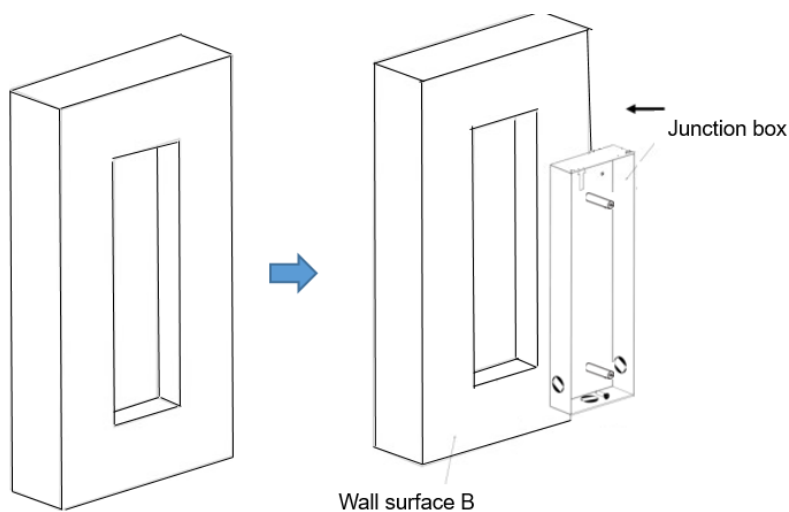


2. Select a backlight and rainproof position.

5.2 Installation

1. Wall Mount

1. Mount the junction box (skip this step if there is a junction box in the wall) :
 - Drill a recess in the wall, which shall be 5mm larger than the junction box, then mount the box in the wall and secure it. The two installation holes on the box should be vertical to the ground during installation.



2. Paste the drill template (skip this step if there is junction box supplied, and you can use the holes of the box. See the figure 5-1 below).
 - Paste the drill template on the wall with the arrow perpendicular to the ground.
 - Use a $\varnothing 6\text{mm}$ to $\varnothing 6.5\text{mm}$ drill bit to drill two 30 mm-depth holes on the A position (be careful not to damage cables in the wall).

- Insert the expansion bolts into the two holes.

Figure 5-1 Junction box supplied

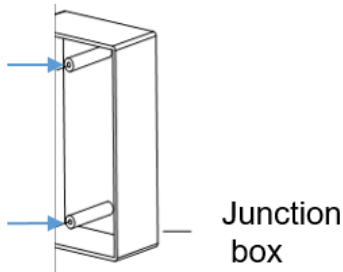
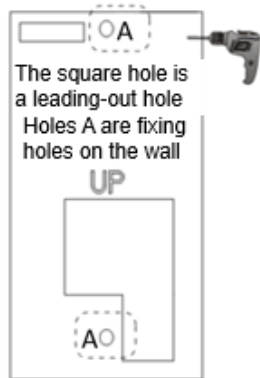


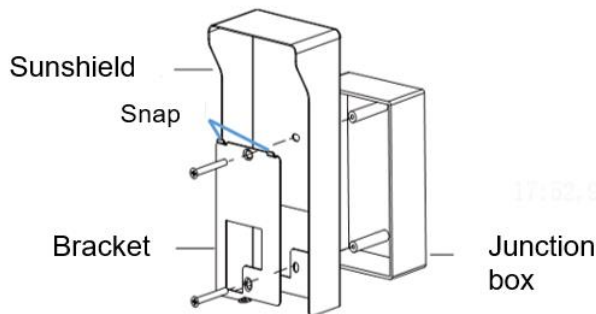
Figure 5-2 Other junction box



Without junction box

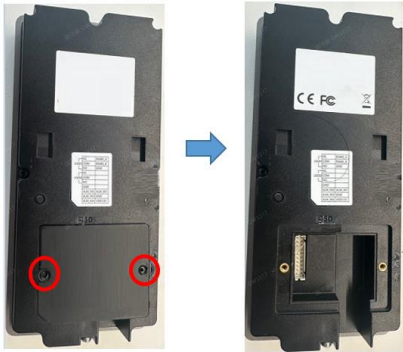
3. Mount the bracket and sunshield.

- 1) Keep the two snaps on the bracket facing upward and the screw hole at the bottom of the bracket facing outward.
- 2) Tighten the bracket and sunshield.
 - Junction box supplied: Align the screw holes of bracket and sunshield to those of the junction box, insert round tail cross screws and tighten them.
 - Other junction box: Insert the pointed tail cross screws into the expansion bolts to fix the bracket and sunshield.

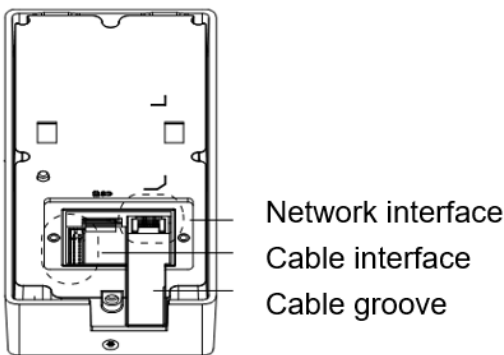


4. Connect all cables.

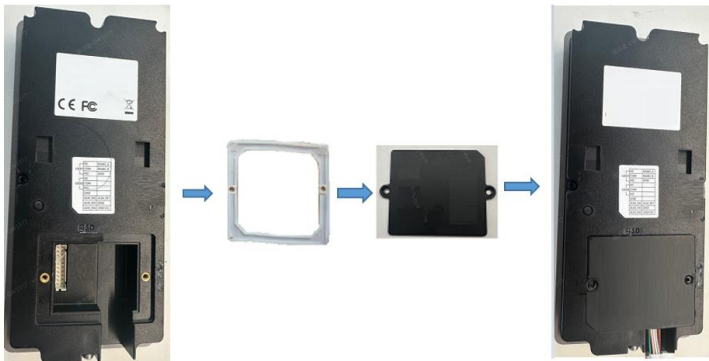
- 1) Use the Phillips screwdriver to loosen the screws on the rear panel, and then remove the cover.



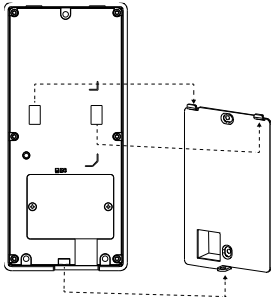
- 2) Connect the network cable and other cables to the rear panel correctly, and then lead the cables out from the cable groove (See [6.2 Wiring](#) for details.).



- 3) Fix the rear panel (with rubber cushion facing inward) onto the door station with screws.



5. Install the base of door station to the bracket.
 - 1) Align the slots on the door station with the two snaps of the bracket, and then insert.
 - 2) After the screw hole of the door station is aligned with the bracket hole, insert a Torx socket screw to fix the door station and the bracket.



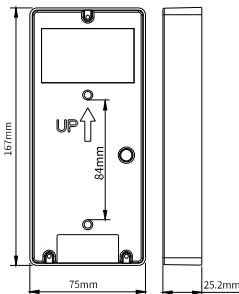
2. Recess Mount



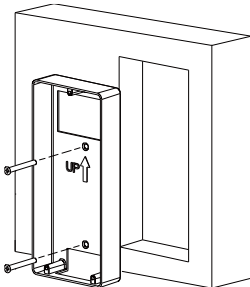
CAUTION!

- Only metal door station supports recess mount.
- The recess mount bracket will be used for recess mount.

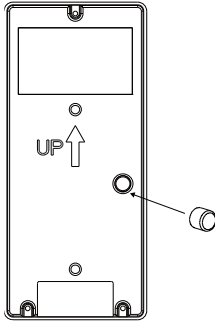
1. Fix the recess bracket to ensure that the wall has enough space to mount the bracket. The bracket size is as follows.



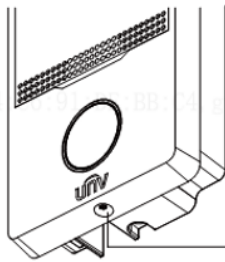
2. Thread two screws through the bracket holes to fix the bracket on the wall.



3. (Required for sunshield mount) Mount the rubber plug on the protrusion of the bracket (shown in the figure), which can prevent the tamper-proof button of the door station from continuously sounding when loosened.

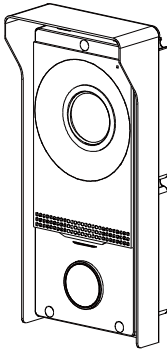


4. Loosen the screw at the station's bottom to separate the front cover from the station.

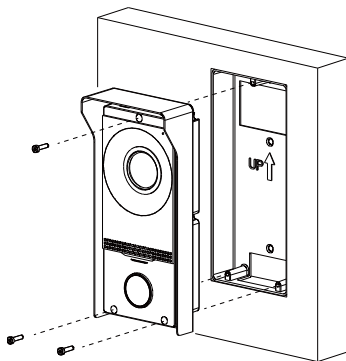


Bottom screw

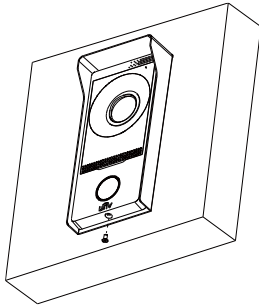
5. (Optional) Insert the sunshield from the rear side of the station, as shown below.



6. Fix the door station and the sunshield to the bracket.
 - Align the three holes of the station with those of the bracket, insert the screws and tighten.



- Mount the sunshield, and then insert the screw into the bottom of the station again and tighten.



6 Wiring

6.1 Tail Cables

Cable	Color	Description
RS485_A	Orange	RS485
RS485_B	Yellow	
GND	Black	
ALM_IN1	Purple	Alarm input
ALM_IN2	White/Purple	
ALM_IN3	Light Green	
ALM_IN4	Yellow/Black	
GND	Black	Power supply
VDD12V	Red	
LOCK1_NC	Pink	Door lock
LOCK1_COM	White/Yellow	
LOCK1_NO	White/Green	
LOCK2_NC	Gray	
LOCK2_COM	White/Orange	
LOCK2_NO	White/Blue	
GND	Black	

6.2 Wiring

- The door station can two sets of door opening buttons, door magnets, and door locks at the same time. The detailed wiring is as follows:

