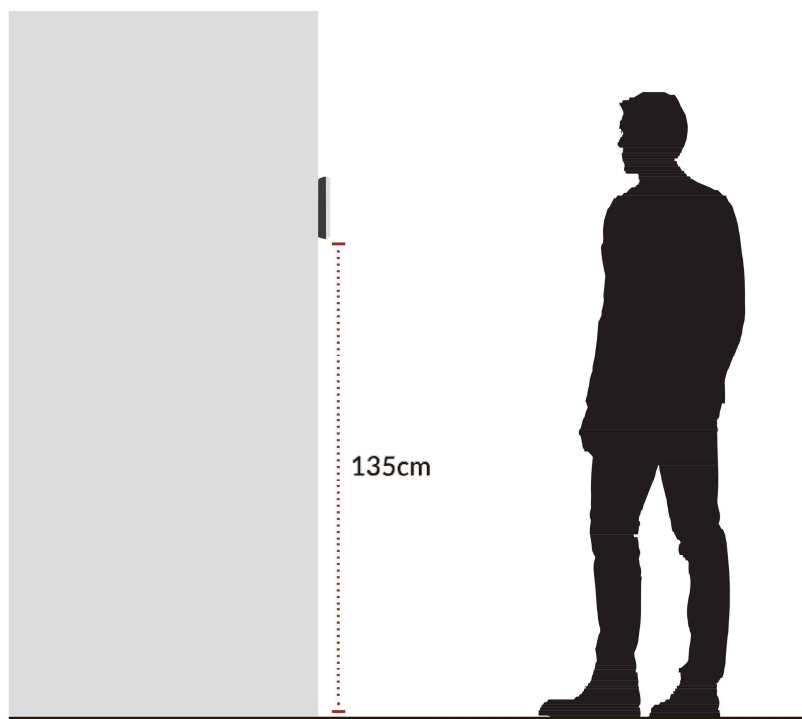


the device.

Recommended mounting height



2.1.2. Electrical Requirements

- ☑ Use a stable power supply adapter in accordance with the following table. Minimum current is 2.0A. (Maximum actual voltage is 25V DC.)



The 12V DC is allowed if there is no voltage drop due to either cable loss or fluctuations in mains (AC) power. Please contact CMITech for more information.

- ☑ Make sure that the power cable is as short as possible and have correct wire gauge in accordance with the following table.
- ☑ Use CAT5 or later for ethernet cable.

Power requirements depending on cable length and wire gauge

Input voltage (V)	Wire gauge (AWG)	Power cable length (m)		Note
		Recommended	Maximum	
15	20	45	57	Standard Configuration
	22	29	36	

24	20	108	136
	22	68	85



The above configuration is for reference only and may vary depending on the actual installation environment.

2.1.3. PoE Requirements (optional)

Power over Ethernet (PoE) is a technology that allows electrical power to be transmitted along with data over standard Ethernet cables. This eliminates the need for a separate power supply and electrical outlet at the device location, simplifying installation and reducing costs.

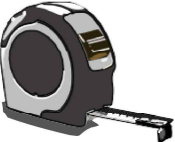
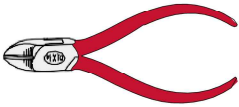
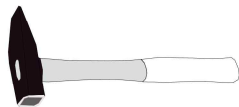
Before using PoE for your FACE CAMERA, ensure the following:

- ☑ **PoE Compatibility:** Verify that your network switch or injector supports PoE and provides the correct power output (wattage) that matches the power standard of your device. The FACE CAMERA is compliant with the IEEE 802.3af standard.
- ☑ **Cable Quality:** Use high-quality Ethernet cables (CAT5e or higher) specifically designed for PoE applications.
- ☑ **Cable Length:** Keep Ethernet cable runs under 100 meters (328 feet) to avoid voltage drop. For longer distances, consider using a PoE extender or additional switches.
- ☑ **Power Sources:** Avoid applying PoE and an external power supply to the device simultaneously. This can damage the device or lead to unstable operation.

2.1.4. Tool Requirements

The following tools can be necessary for installation and are not supplied by default.

Required tools

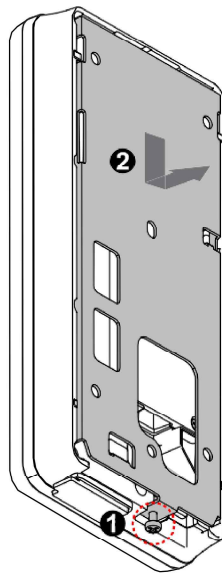
Purpose	Name	Figure	Note
General	Screw driver		Cross head
	Tape ruler		For measuring the installation height
	Cutting plier		
Concrete wall mount	Electric drill		With a drill bit and anchor bolts
	Marker		
	Hammer		

2.2. Installation Procedure

2.2.1. Mounting Device - Wall Mount

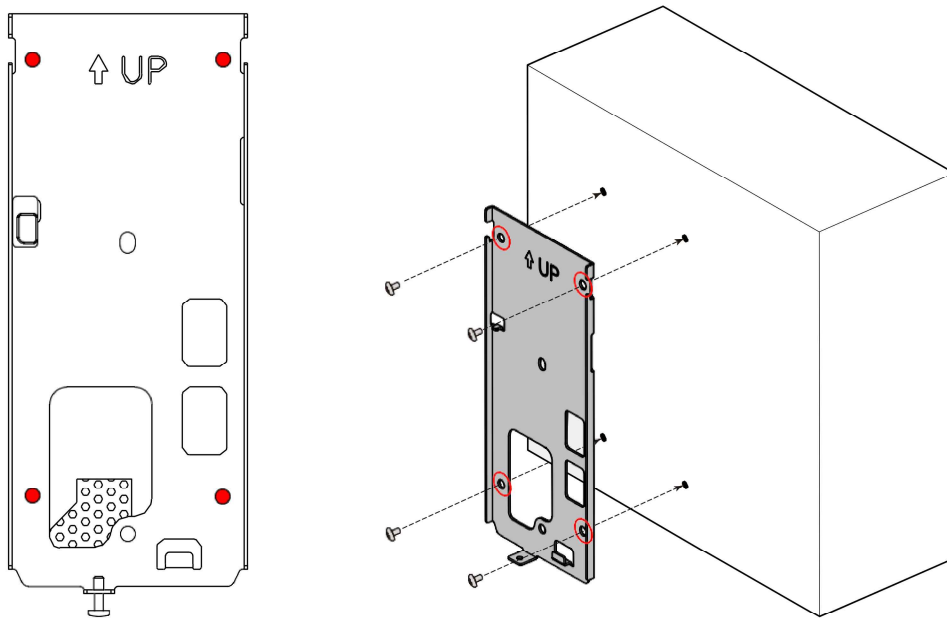
You can install the device onto a wall directly by using the mounting plate.

1. Loosen the screw that attaches FACE CAMERA to the mounting plate and disassemble the plate.



2. Put the mounting plate at the predetermined position and attach the plate onto the wall with the screws.

Wall mounting points

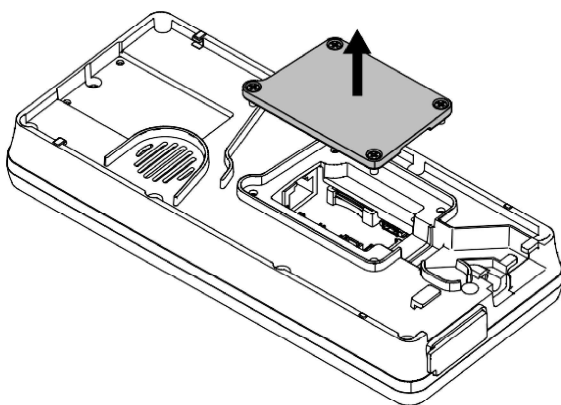


For concrete wall mount, do the steps that follow:

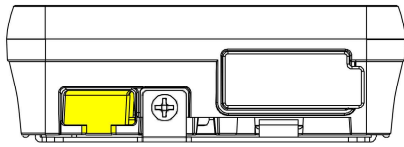


1. Put marks on the wall through the holes of plate by using a marker.
2. Drill the marked points by using a electric drill.
3. Attach the anchor bolts to the holes by using a hammer.
4. Attach the plate to the wall with the screws.

3. Loosen the screws of the cable cover on the rear panel of the device and remove the cover.



4. Connect the power cable and peripherals cables to the connectors in the rear panel and let the cables go through the opening at the bottom of the device as shown in the figure below.



For more information on the connectors and cables, see [Connecting Cables](#).



To meet the IP65 rating, make sure to close the I/O terminals with the cable cover and secure them with the screws.

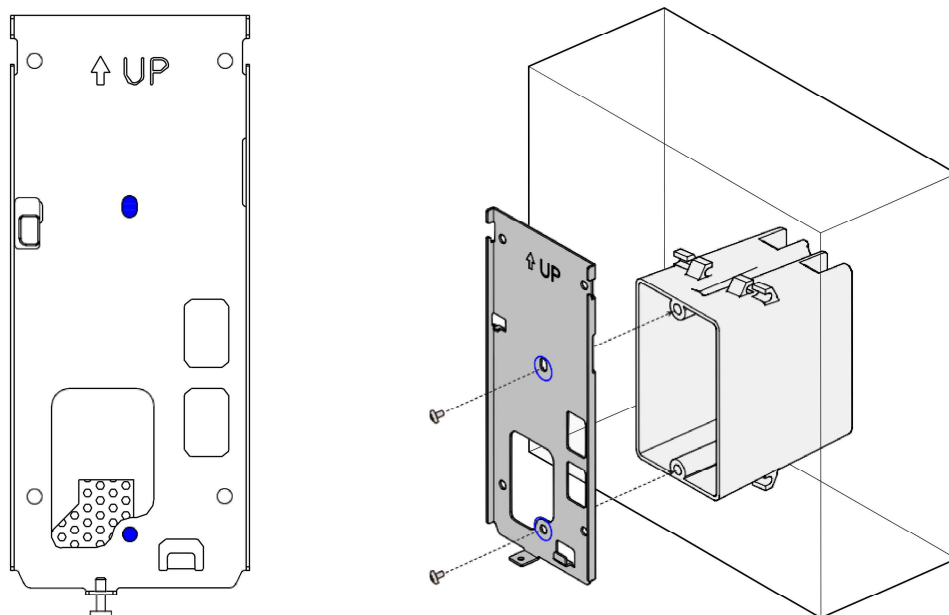
5. Put the device onto the installed plate, slide it downward, and attach them with the screw.

2.2.2. Mounting Device - Gang Box Mount

You can also install the device on a gang box (outlet box) by using the mounting plate.

1. Remove the screw that attaches FACE CAMERA to the mounting plate and disassemble them.
2. Put the mounting plate onto the gang box and attach it to the box with the screws.

Gang box mounting points



Make sure that the outgoing cables from the gang box go through the rectangular opening in the plate.

3. Loosen the screws of the cable cover on the rear panel of the device and remove the cover.
4. Connect the power cable and peripherals cables, if necessary, to the connectors in the rear panel. (See [Connecting Cables](#) for more information)



To meet the IP65 rating, make sure to close the input/output terminals with the cable cover and secure them with the screws.

5. Put the device onto the installed plate, slide it downward, and assemble them with the screw.

2.2.3. Connecting Cables

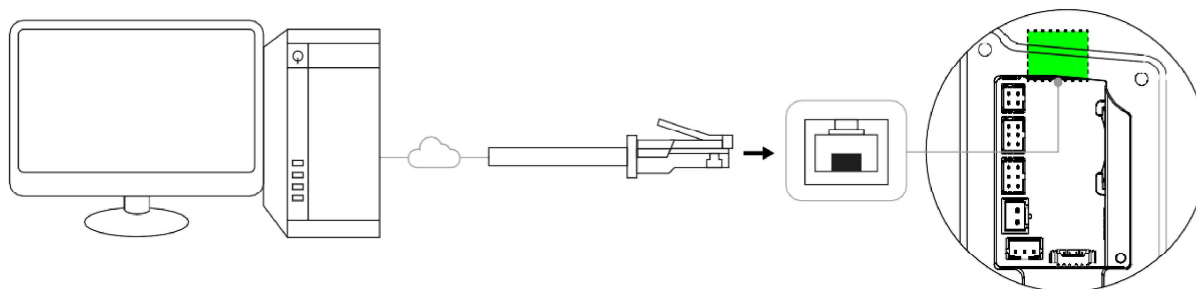
Power Connection



If your FACE CAMERA is the PoE version, avoid using both a PoE connection and an external power supply simultaneously. This can lead to hardware damage or operational instability. Always ensure that the device is powered exclusively by one source — either PoE or its dedicated power supply. If you need to switch between these sources, make sure to disconnect from one before connecting to the other to maintain the integrity and safety of the system.

Network Connection

RJ-45 connector for 10/100/1000Base-T Ethernet communication, minimum CAT5 cable.



The PoE version of FACE CAMERA will automatically receive power through the Ethernet cable and power on once connected.

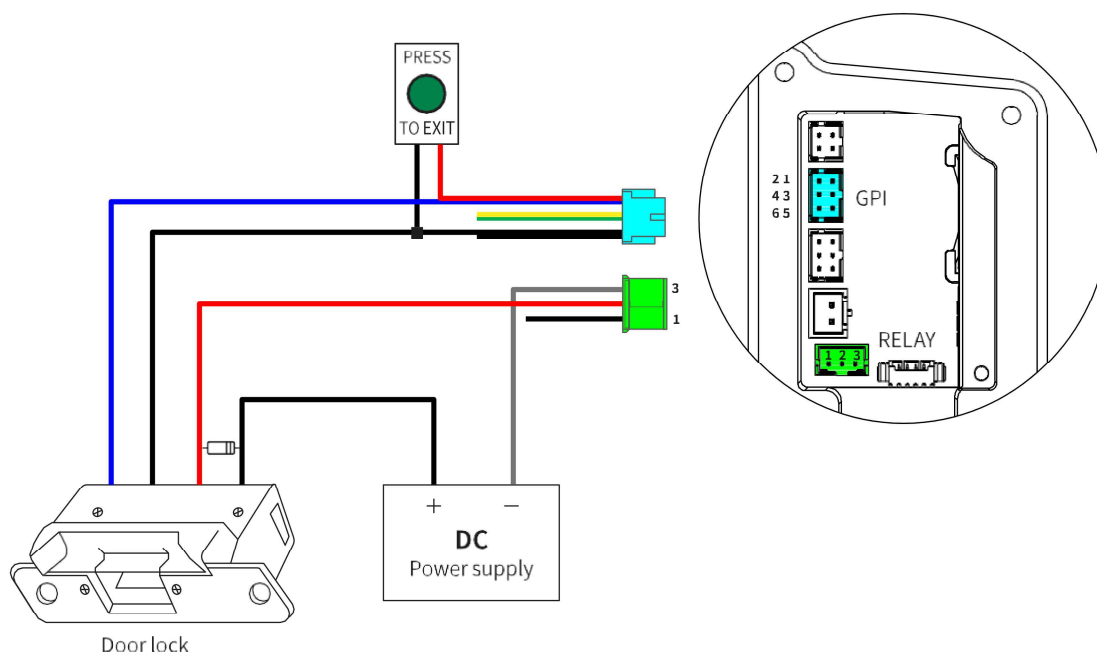
Relay Connection – Dead-Bolt Type Door Lock

There are two types of dead-bolt door lock connections and configuration supported – fail-safe and fail-secure.



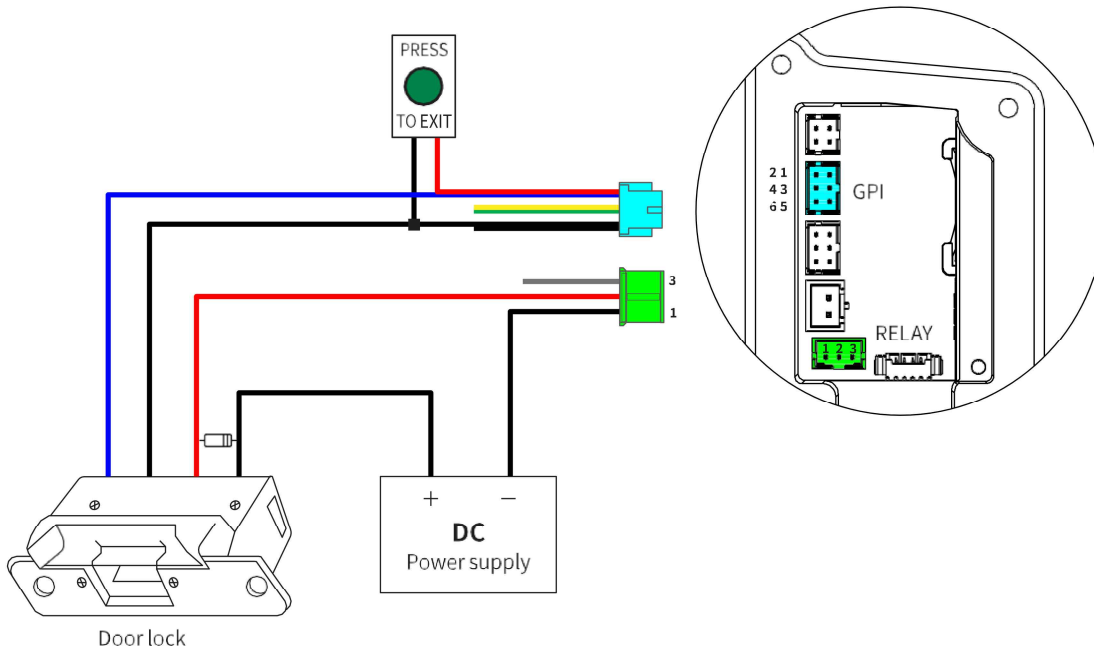
- Use different power supplies for the FACE CAMERA and the door lock.
- Install the diode at both ends of the circuit as shown in the figure below close to the door lock to protect the relay contact from the reverse current that occurs when the door lock works.
- Make sure that the diode direction is correct.

Fail-Safe Configuration



Type	Pin No.	Pin Name	Color
Relay	1	Normally Open (NO)	Black
	2	Common (COM)	Red
	3	Normally Closed (NC)	Gray
GPI	1	GPI 1	Red
	2	GPI 2	Blue
	3	GPI 3	Yellow
	4	GPI 4	Green
	5	Ground (GND)	Black
	6	Ground (GND)	Black

Fail-Secure Configuration



Type	Pin No.	Pin Name	Color
Relay	1	Normally Open (NO)	Black
	2	Common (COM)	Red
	3	Normally Closed (NC)	Gray
GPI	1	GPI 1	Red
	2	GPI 2	Blue
	3	GPI 3	Yellow
	4	GPI 4	Green
	5	Ground (GND)	Black
	6	Ground (GND)	Black