Quick Installation Guide

Accessories

Mounting accessory kit

Waterproof connector

Quick guide

Dehumidifier packet

Sunshield accessory kit

Placement sticker

Wall mount base

3-axis cable concealed wall mount bracket

Sunshield
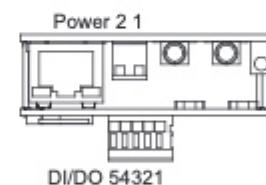
No.	Item
3-1	Ethernet / PoE
3-2	DC 12V / AC 24V
3-3	Line-out
3-4	Line-in
3-5	Micro SD
3-6	DI/DO
3-7	Reset
3-8	Default

DI/DO & Function Description

55° Rotate

180° Rotate

360° Rotate
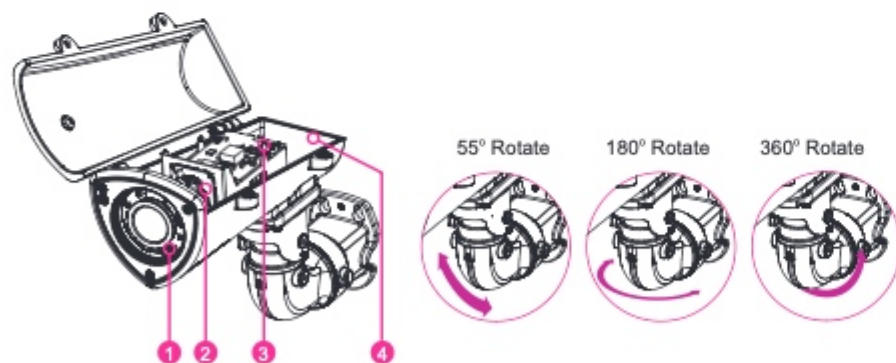
No.	Item	No.	
1	8 PCS LED IR Illuminator Board Plate	3	MB Module
2	SB Module	4	Dehumidier Packet

DI/DO Pin Definition & Waterproof Connector Description

Power 2 1

DI/DO 54321

Waterproof connector

No.	DI/DO
1	ALM_IN (+)
2	ALM_IN (-)
3	ALM_out_NC
4	ALM_out_COM
5	ALM_out_NO

| No.	Power
1	AC24V/DC12V (+)
2	AC24V/DC12V (-)

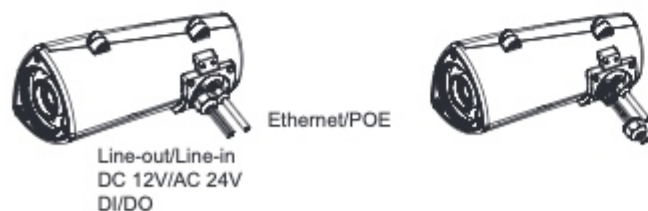| No.	Waterproof connector
1	Gasket
2	Main body
3	Tightening collar
4	Strain relief
5	Seal nut

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Cable Wiring Description and Installation

1. Run the cable inside the wall mount bracket and out through the cable opening at the front.
2. Wire the network cables to the waterproof connector on the right, and wire the line-in, line-out, DC 12V/AV 24V, DI/DO and other cables to the waterproof connector on the left. Tighten the waterproof connector after all the cables are secured in place.
3. Secure the camera onto the wall mount bracket using the four screws provided. Unscrew the 2 screws on the camera's top cover at the side in preparation for the next step.
4. Open the camera's top cover to access the wired cables. Install the RJ45 connector to the Ethernet cable and plug it into the corresponding port on the MB module.
5. Close and secure the top cover using the supplied hardware tool, then assemble the sunshield with the screws from the accessory kit.
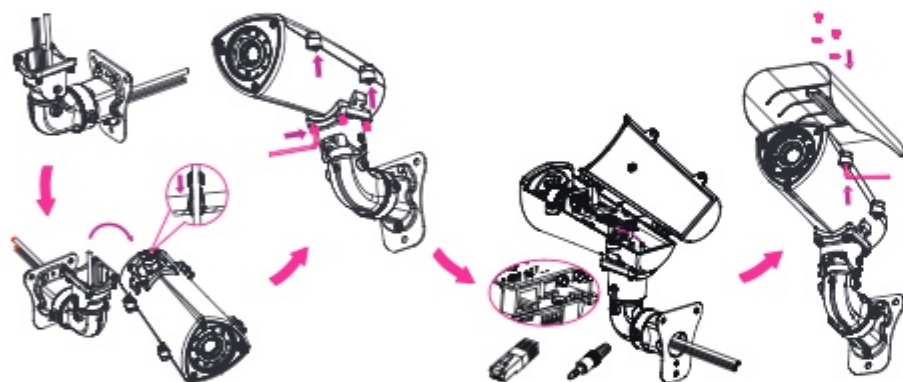

Cable Outlet Description

Ethernet/POE

Line-out/Line-in
DC 12V/AC 24V
DI/DO

1. The camera features two waterproof connectors, the right one in the diagram is for PoE connection, while the left one is for line-in, line-out, DC 12V/AC 24V, and DI/DO connections.

2. The left one features four wire holes. Please cover unused holes with sealing plugs to prevent water from entering.
3. Applicable cable diameter:
   * Ø 1.8~2.5mm (Left)
   * Ø 4.7~6.9mm (Right)

Hardware Installation
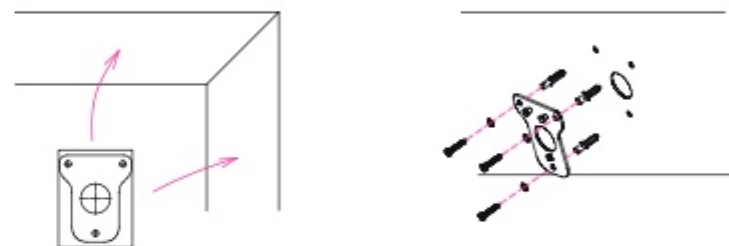
1. Position the placement sticker at the desired installation location and use a driller to drill the holes on the sticker.
2. Insert three screw anchors into the holes then place the wall mount base on top of them with the mounting holes aligned.
3. Wire the required cables through the cable opening on the front of the wall mount bracket. Then, attach and secure the wall mount bracket to the wall mount plate with two M5 screws. Next, install the waterproof connectors onto the cables on the front of the wall mount bracket.
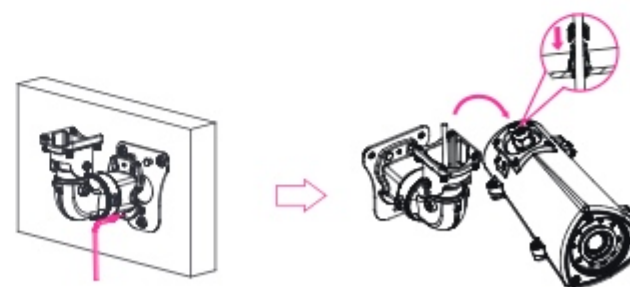
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4. Secure the camera to the wall mount bracket with the four screws and hex wrench. Open the camera's cover and connect the cables to their corresponding ports on the MB module. Then, glue the dehumidifier packet onto the metal bracket using the adhesive sticker on its back, as depicted in the diagram below. Quickly close the camera's cover and ensure the clip is locked in position to prevent the dehumidifier packet from losing its effectiveness.
5. Close and secure the top cover using the supplied hardware tool, then assemble the sunshield with the screws from the accessory kit.

Dehumidifier packet
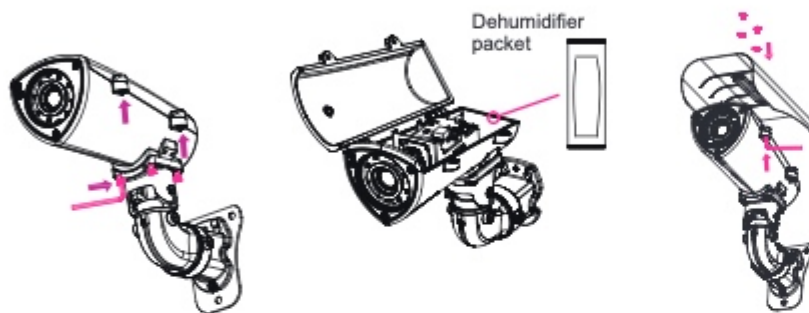
3-axis Angle Adjustment

1. The vertical tilt angle of the camera can be adjusted up or down within an angle of 55°. Loosen the left and right screws depicted below to adjust the vertical tilt angle and then tighten the screws after finishing the adjustment.

25° Rotate

55° Rotate
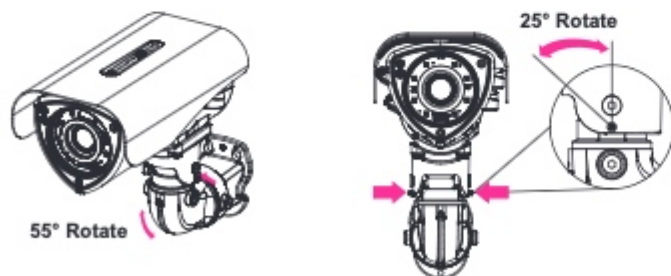
2. The horizontal tilt angle of the camera can be adjusted left or right within an angle of 180°. Loosen the left and right screws depicted below to adjust the horizontal tilt angle and then tighten the screws after finishing the adjustment.

180° Rotate
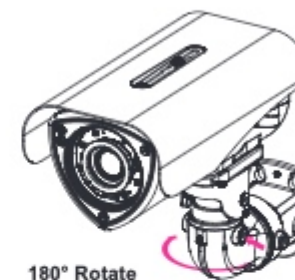
3. The rotatable axis can be rotated in 360°. Loosen the left and right screws depicted below to adjust the 360-degree position and then tighten the screws after finishing the adjustment.

360° Rotate
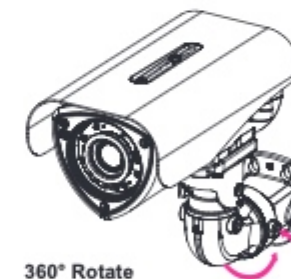
Accessing the Web GUI Login from a web browser

1. Locate and open a web browser.
2. In the address bar, type 192.168.0.250 (default IP address of the camera) and then press the Enter button.
3. You will be prompted with a pop-up window asking for login information, type in "Admin" (default login name) and "1234" (default password).

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Recommended Installation Guideline

The ANPR/LPR camera series are specially designed to capture high-quality images of vehicle license plates. They are able to overcome varied light conditions and capture license plates clearly without overexposure. They are ideal for monitoring parking lots and public areas (city surveillance), and for controlling vehicle access in vehicle identification and license plate recognition applications.

The following recommended installation guideline would be helpful to attain an optimized image result.

Angle

The maximum mounting angle of an ANPR/LPR camera to a vehicle is 40 degrees for both horizontal and vertical views.
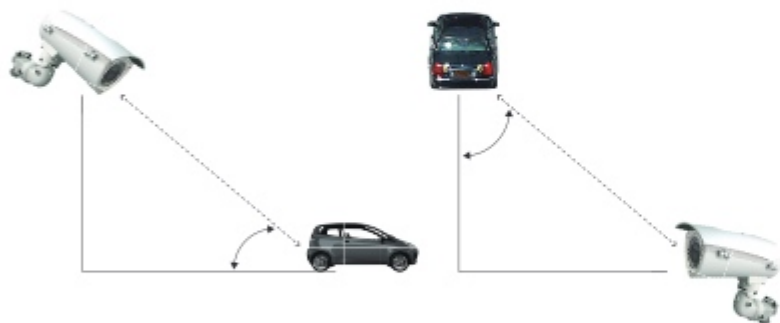
Figure 1. Recommended Vertical and Horizontal Mounting Angles

Note:
If the actual installation distance is over 20m (66ft), please consider to add an external IR illuminator as an auxiliary tool to enhance IR light.