

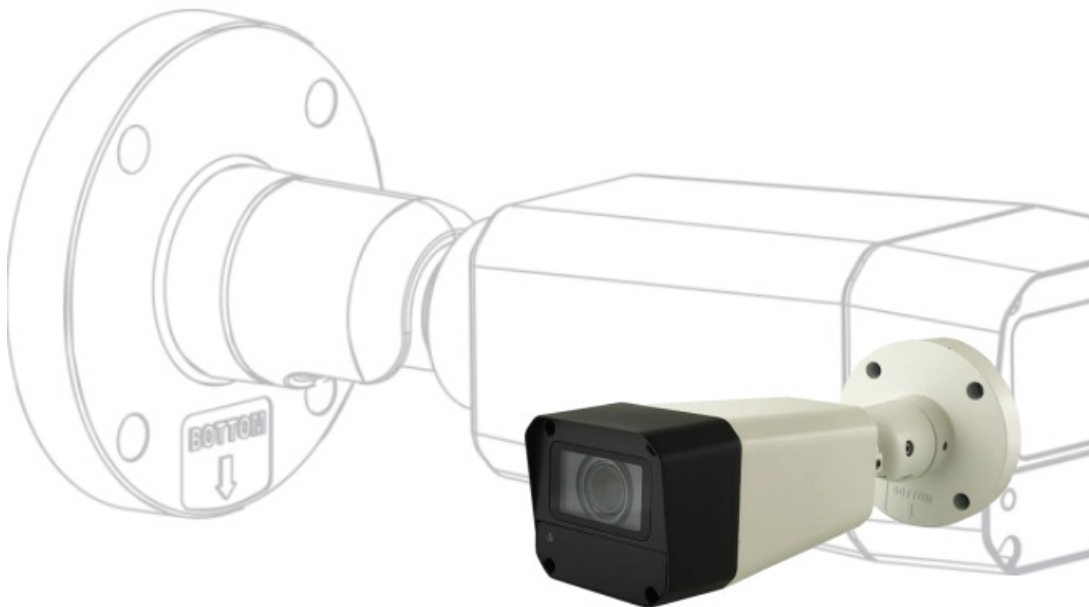


## abilitycorp VS1NN70 AI IP Camera User Guide

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**VS1NN70 AI IP Camera  
User Guide**



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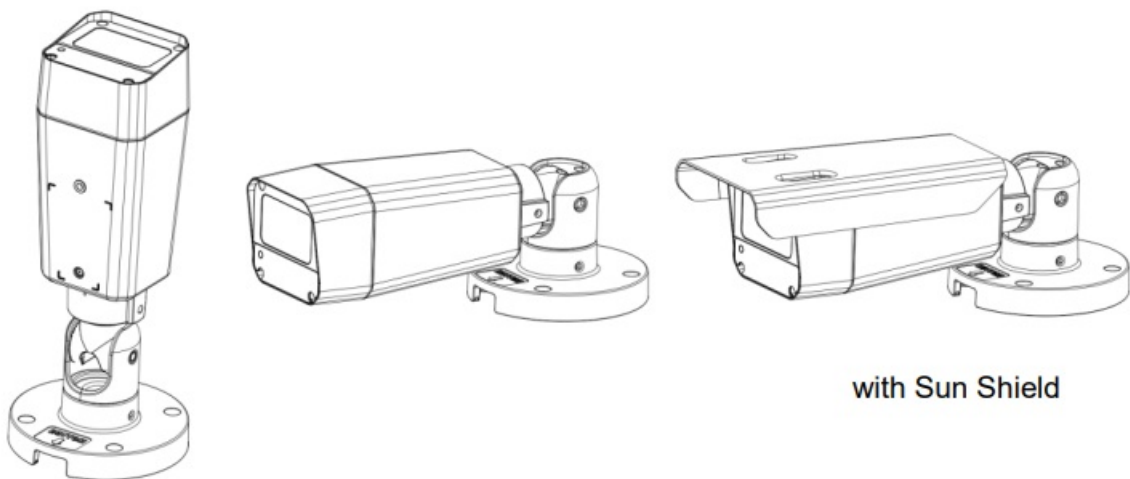
## VS1NN70 AI IP Camera

### 1.1 Accessing via Web Browser

Default IP address	User name	Password
http://192.168.0.11:8080	admin	Ability1

### 1.2 Appearance Description

The overview of the bullet camera is shown below:

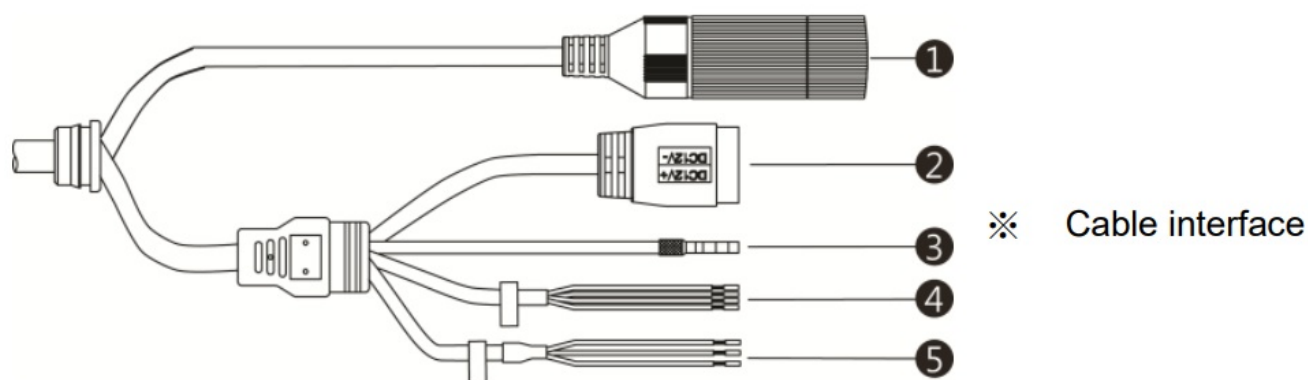


### 1.3 Packing list

Component	PCS
Camera	1
Drilling sticker	1
Power terminal	1
Crimping terminal support 0.75mm <sup>2</sup> and 1.0mm <sup>2</sup> cable	2
Allen wrench M4	1
Waterproof connector for network cables	1
Quick Start Guide	1
Desiccant packet(Optional)	1
Expansion tube	4
Tapping screw	4

## 1.4 Cable













No	Item	Description
1	LAN/POE	Ethernet/POE connection. This interface supports POE.
2	DC 12V+ / DC 12V – AC 24V + / AC 24V	Power input interface. DC 12V 9.0V 15.0V and AC 24V 18.0V 29.9V
3	GND	Ground interface of an IPC
4	ALARM_OUT ALARM_REF	Alarm output and reference interfaces. The interface work together to form the alarm output.
	ALARM_IN GND	Alarm input interface. There may be multiple alarm interfaces. For a given number of interfaces, n, they are numbered (for example: ALARM_IN0,ALARM_IN1, ...,ALARM_INn). Each one connects to the GND connection to form a single alarm input.
5	AUDIO IN/ AUDIO OUT/ AUDIO_GND	Audio input/output interface and audio ground interface.



## Installation

## 2.1 Note

2.1.1 Make sure the device in the package is in good condition and all the assembly parts are included.

 Video surveillance tester	 Hammer drill (for mounting a camera on the ceiling or wall)	 PVC insulation tape	 Phillips screwdriver (Head model:1# and 2#.)	 RJ-45 connector crimping tool	 Measuring tape
 Claw hammer (for mounting a camera on the ceiling or wall)	 Cable stripper	 Waterproof tape	 Glass cement	 Utility knife	 Wiring terminal

## 2.2 Caution

Please do not lift a camera by its cable.

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## 2.3 Reset

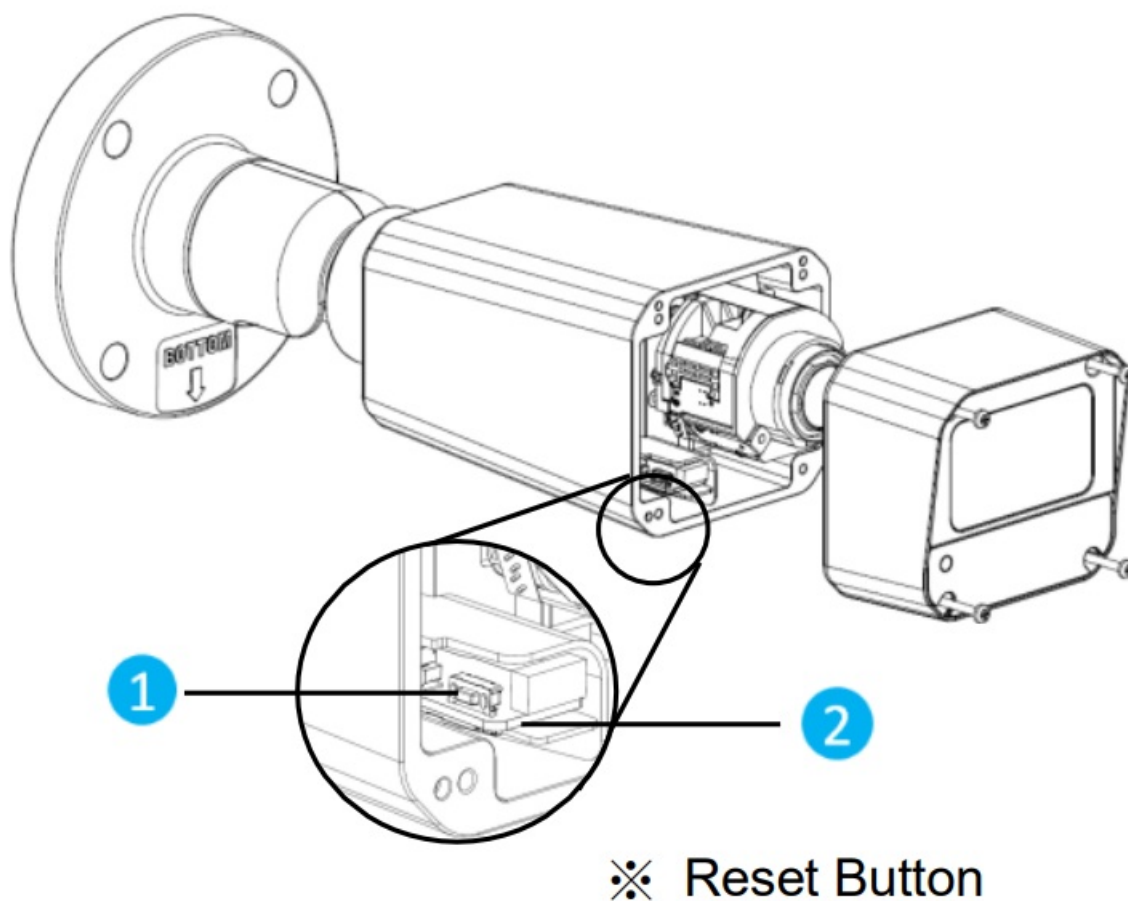
Use the Phillips screwdriver to remove the front panel of camera.

### Step 1

- To restart the camera, you need to press and hold the reset button less than 3 seconds.
- To restore the camera to factory settings, you need to press and hold the RESET button and power on the camera. After the power on of the camera, you must still press and hold the Reset button for about 10 seconds.

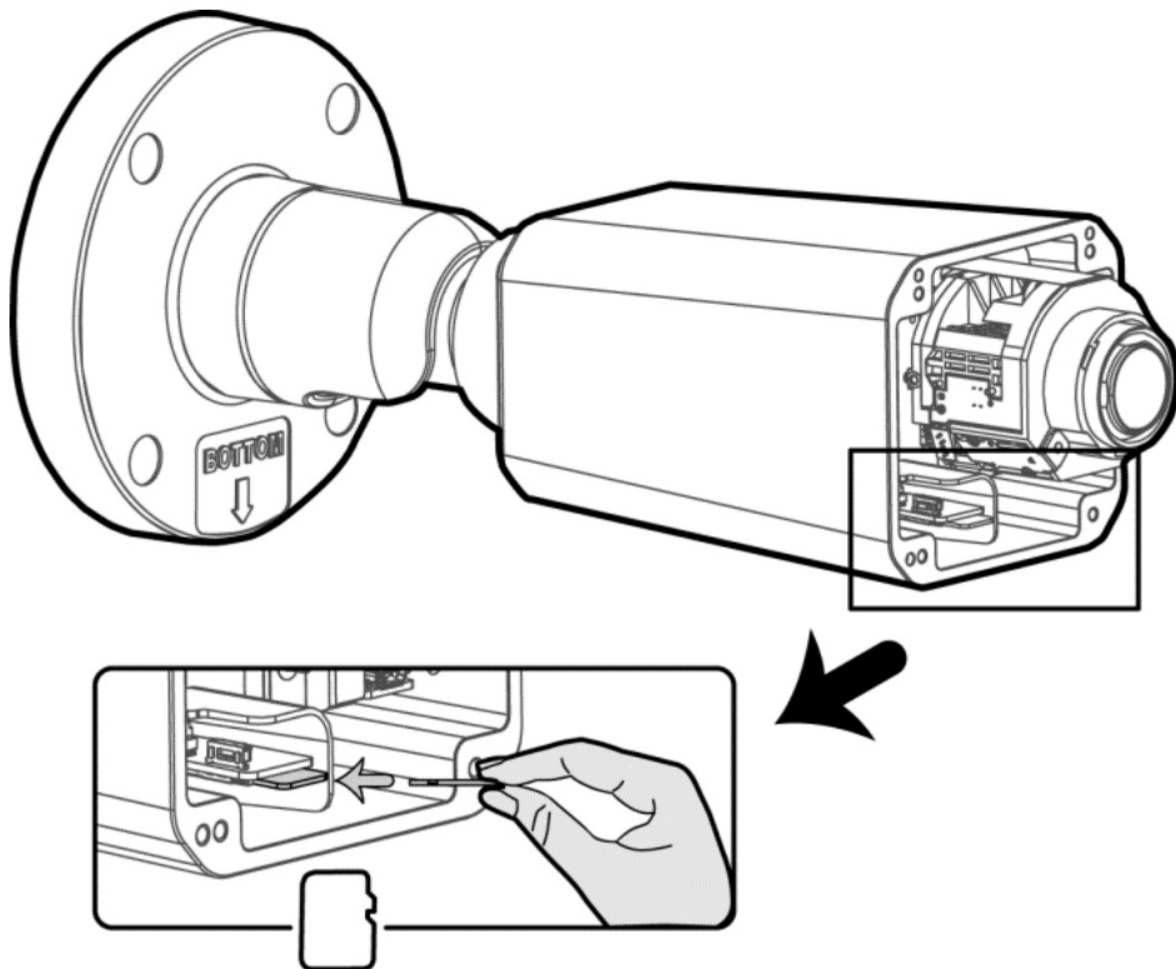
### Step 2

The SD card slot supports only class 6 or higher Micro SD card. To replace a Micro SD card, the device must be powered off. Otherwise, system exception may occur. When a Micro SD card is used for the first time, log in to the web client of the device and format the Micro SD card. For details, see the Configuration Guide.



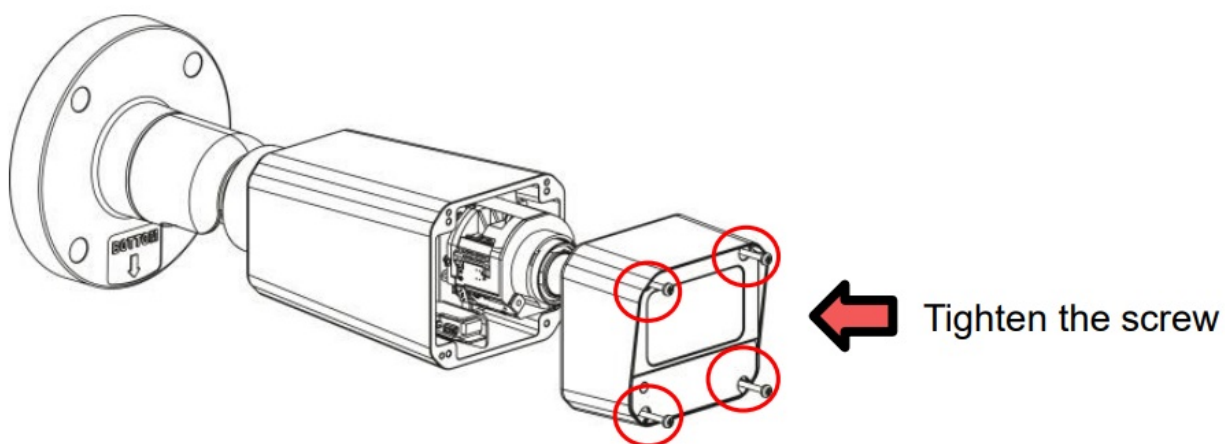
#### 2.4 Micro SD card installation

Please refer to figure 2.4, insert the memory card to memory card slot on the rear panel of the camera. Use Phillips screws (#2) to remove the front panel of camera and insert the SD card. During SD card installation, you are advised to turn the camera maintenance window downward and insert the SD card into the SD card slot from below to avoid accidentally dropping the SD card into the camera.

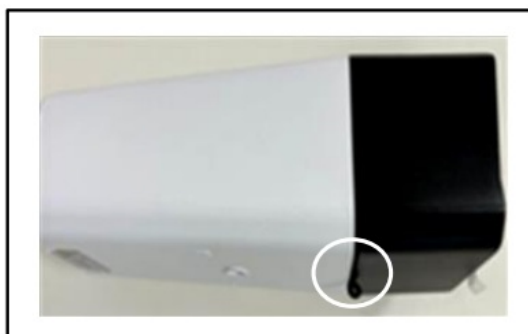


## 2.5 Front panel of camera installation

Please remove the dirt on the waterproof rubber strip and you need to avoid catching the fall prevention rope or other foreign objects, finally make sure tighten the screw before locking the front cover of the camera.



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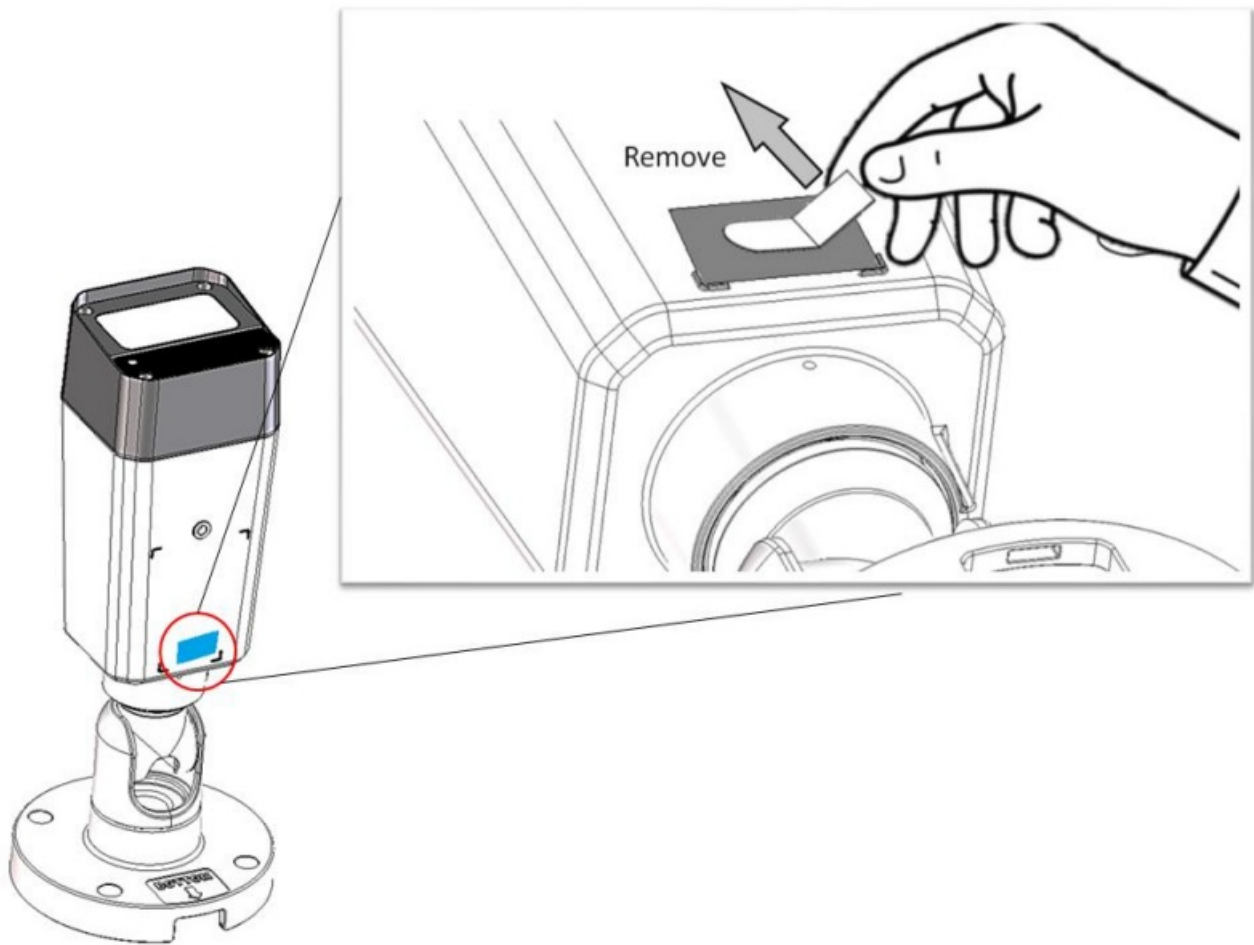
(OK)



Avoid catching the fall prevention rope or other foreign objects

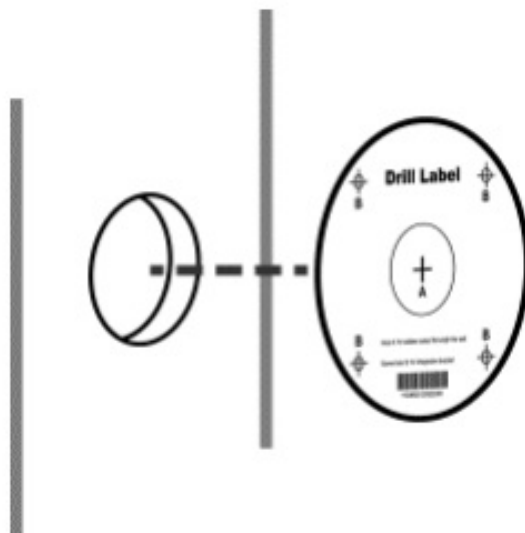
## 2.6 Remove the Anti-moisture Sticker

Before mounting the camera onto its install position, please remove the anti-moisture sticker in the first place to get the air vent start working.

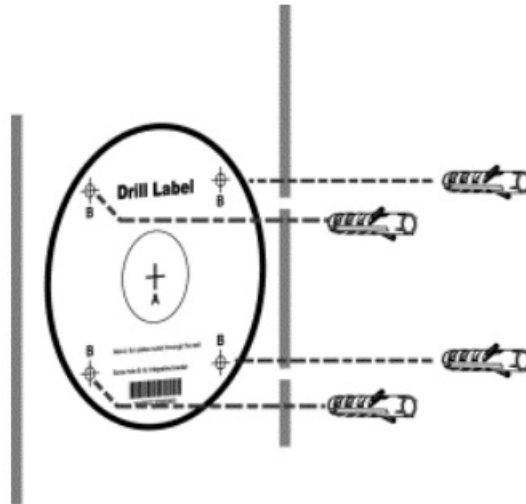


## 2.7 Camera mounting

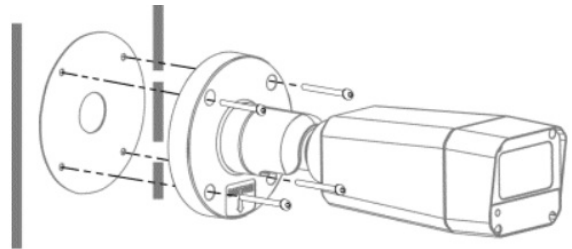
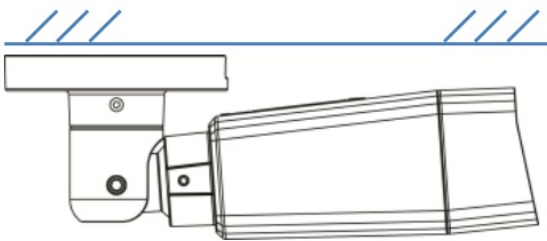
Step 1: Confirm that the cable outlet on the wall is large enough for the pigtails to pass through. Affix the drilling sticker to the camera installation position and ensure that the center of the sticker matches the cable outlet on the wall.



**Step 2:** Use an 5mm drill bit to drill four 35mm deep holes in the positions marked by the drilling sticker. Use a hammer to carefully drive the white plastic expansion tubes into the holes.

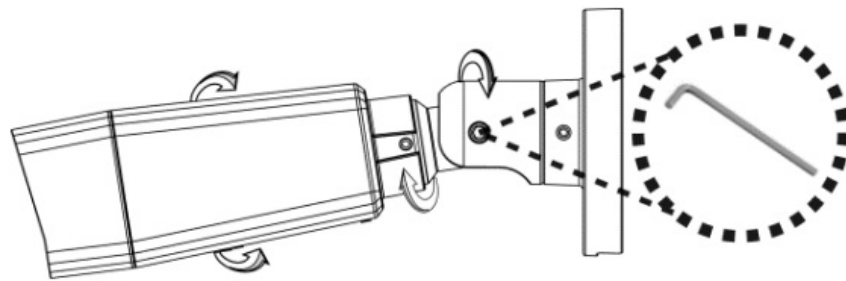


**Step 3:** Connect the external cabling to camera pigtails, insulate the connections (see Cable Connections), and feed the cabling through the cable entry on the wall. Fasten the tapping screws. Make sure the cable outlet at the camera base is installed facing downwards and is sealed with waterproof glue to prevent water from getting into the camera.

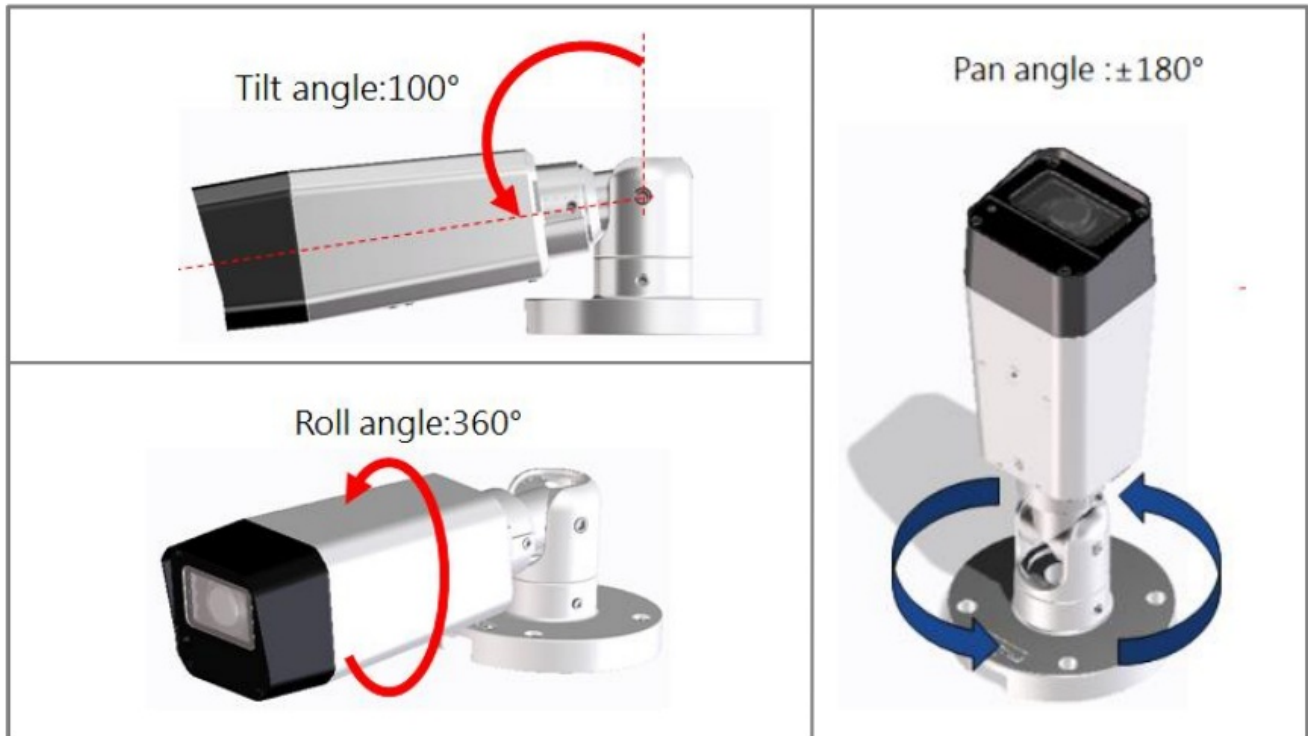


**Step 4:** Loosen the three hex socket bolts and adjust the camera to the required angle. Then re-tighten the screws, and adjust the position of the sunshield.





※ Tighten 3 hex socket head cap screws after adjustment.

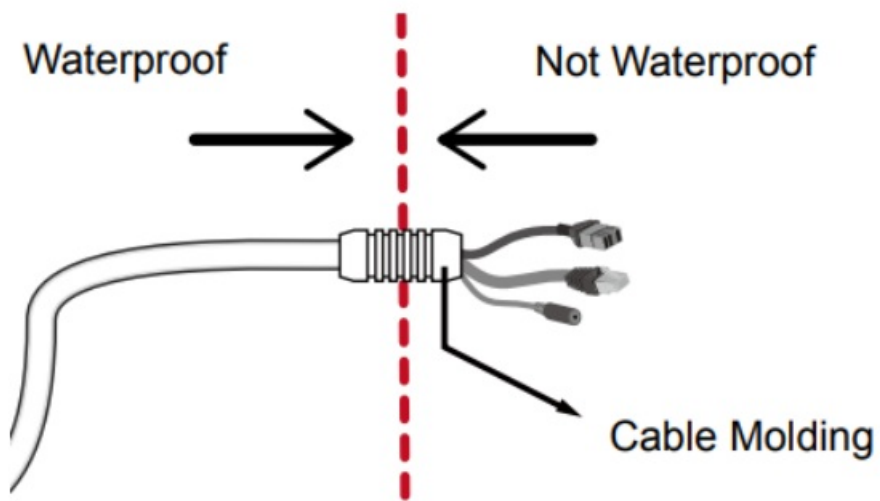


※ adjust the angle of the camera

## 2.8 Cable connection

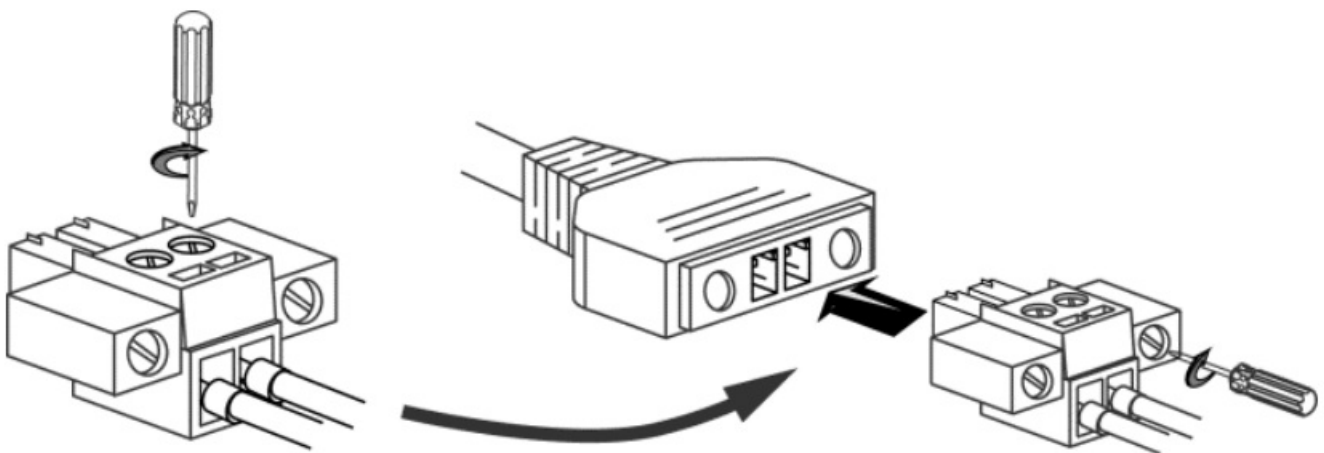
### 2.8-1 For safety precautions

- The lightning arrester must be installed and grounded if you install camera outdoor.
- Strong and weak current cables must be kept at least 5 cm apart from each other. When connecting the cables to the device, take care to avoid connecting strong current cables to weak current interfaces or you will damage your device.
- The tail of cable must be cut if it cannot pass through the wall, please keep the label on tail of cable. And please make sure to use insulating tape and waterproof tape to insulate and waterproof all tail of cable to avoid short circuits and water leakage.
- Wrap all pigtail cables in insulated, waterproof, rubber tape to prevent short circuits or water damage.



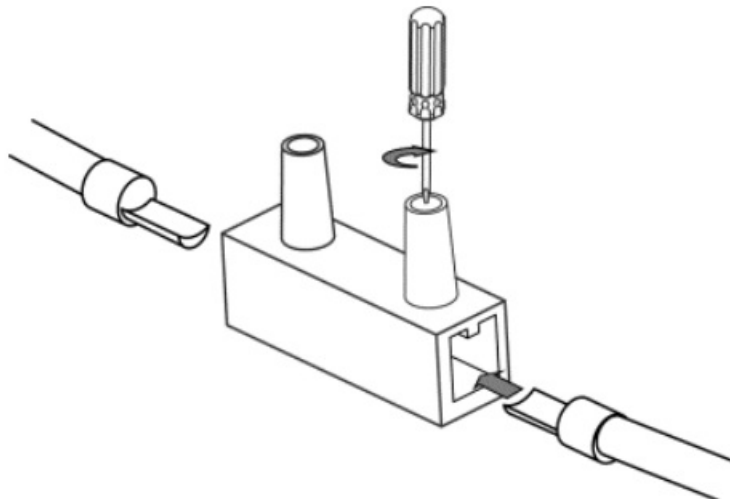
### 2.8-2 Power cable connection

Connect the ground cable to ground the device, and then connect the power cable. If crimp terminals are not used, the wire thickness cannot exceed 1.5mm<sup>2</sup>, and the length cannot exceed 25m. If crimp terminals are used, the wire can be up to 0.75mm<sup>2</sup> for a 15 m length of wiring or up to 1.0mm<sup>2</sup> if 20 m is required. Longer wiring is not supported. The ground impedance cannot exceed 5 ohms.



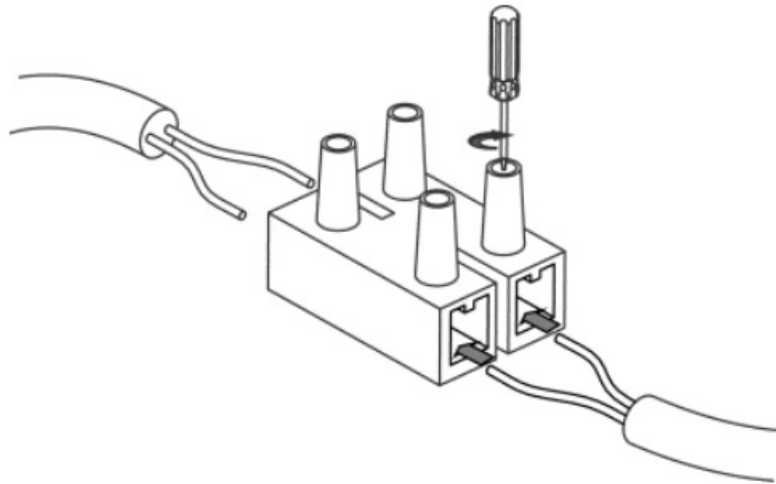
### 2.8-3 Ground cable installation

Please connect ground cable of camera to ground.



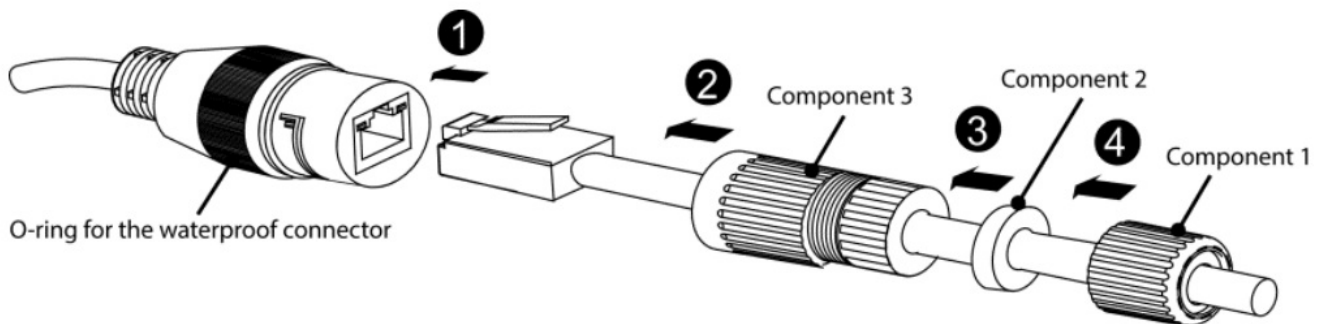
#### 2.8-4 Audio and alarm cable installation

It is recommended that twisted pair cables be used as alarm cables. The diameter of the cable core ranges from 22AWG to 28 AWG. The impedance of the entire cable is less than or equal 100 ohms.



#### 2.8-5 Network cable installation

Connect the network cable. Mount the number O-ring for the waterproof connector onto the network cable port and install the remaining components of the waterproof connector in the sequence shown below. The waterproof connectors of the network cable must be secured tightly or they may come loose later.

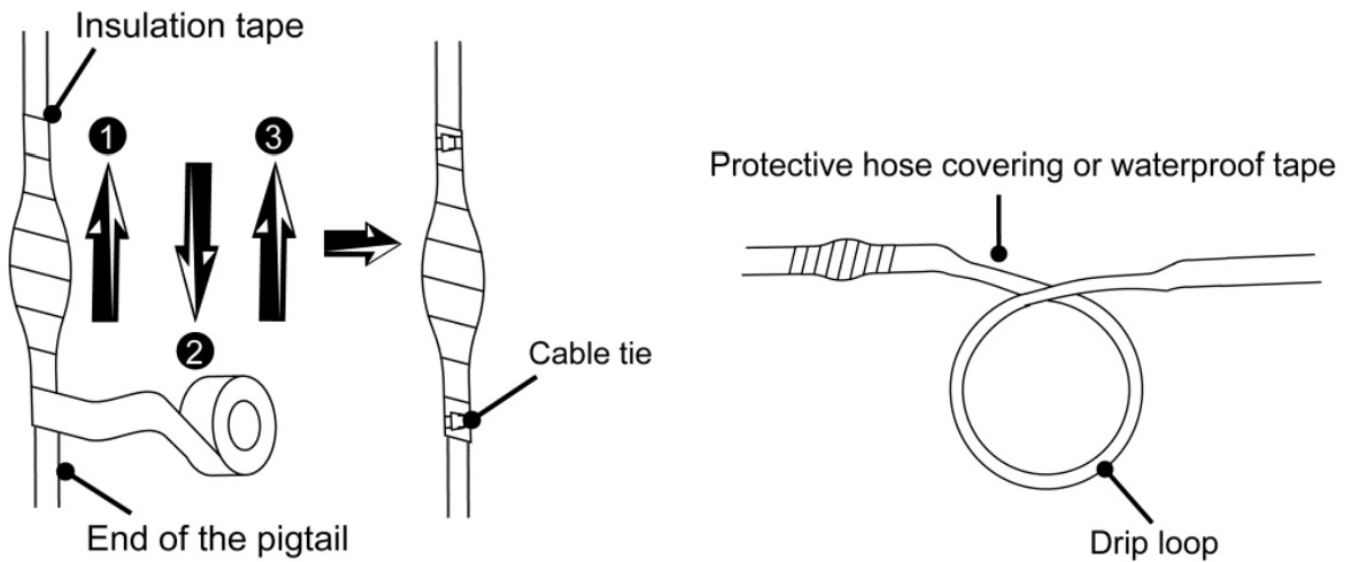


※ install network waterproof component

#### 2.9 Cable waterproof and insulation

Waterproof and insulate all cables including power cables, network cables, and unused pigtails.

1. Wrap one layer of insulation tape around each cable joint.
2. Stretch the waterproofing tape evenly to twice its original length. Then apply it for three layers from bottom to top, from top to bottom, and from bottom to top again.
3. Stretch the insulation tape evenly to twice its original length. Then apply it for three layers from bottom to top, from top to bottom, and from bottom to top again. Finally tie the upper and lower ends with cable ties. Then use cable ties to secure the both ends.
4. Cover the rest of the cabling in a conduit or with protective waterproof rubber tape. Make a drip loop as shown below to create an artificial lowest point of the cable.



## Desiccant Bag Replacement

If the camera is experiencing fogging, you will need to replace the existing desiccant bag (The rectangular object inside the camera housing.)

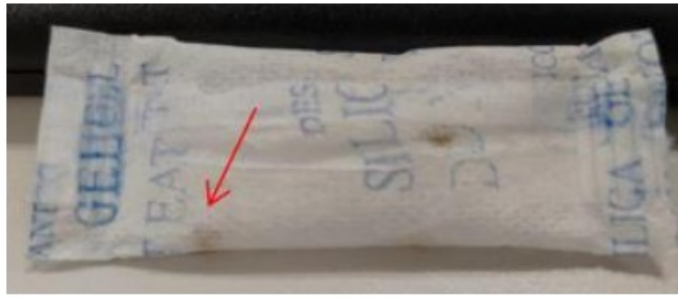


### 3.1 Identification of Desiccant Bag's Functionality

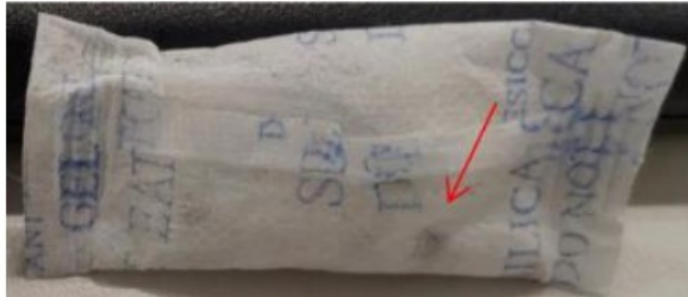
The remained functionality of the desiccant bag can be identified by the color of the silica gel beads among the desiccant, which are: Bright Yellow – Dry



Light Green – Some moisture is absorbed



**Dark Green – A considerable amount of moisture was absorbed**



To replace the desiccant bag, please follow the steps mentioned in the following sections, and the procedures should be done by the engineering staff.

### **3.2 Replace the Desiccant Bag**

Step1.

Open the camera and locate the desiccant bag. The desiccant bag will be close to the lens or attached to the camera cover depending on the camera model.



**Step2.**





Remember the place of desiccant bag and remove it.

**Note:** Be careful, do not exert any pressure in the camera lens or other components.

**Step3.**



Open the aluminum foil pack that is included in the camera box. The desiccant bag is included inside it.

**Step4.**



Stick a double-sided tape on desiccant bag. Pull the adhesive tape cover in order to attach the desiccant bag to the camera.

(**Note:** Some of desiccant bags already stick a double-side tape, so just remove the tape cover then attach the desiccant bag to the housing.)

**Step5.**



Place the desiccant bag to the same place as the old one. Be sure to press it tightly so that it won't fall after.

**Step6.**



Put back the cover of the camera as soon as the bag is replaced. (If you leave it open too long, the desiccant bag will start absorbing water from the environment.) **Step7.** Be sure the cover is closed tightly.

**Check Item**


Please confirm the following to ensure that the equipment is installed correctly.







**Documents / Resources**

 <p>AI IP Camera Quick Start Guide Model: VS1NN70 VS1NN70 AI IP Camera</p>	<p><a href="#">abilitycorp VS1NN70 AI IP Camera</a> [pdf] User Guide VS1NN70 AI IP Camera, VS1NN70, AI IP Camera, IP Camera, Camera</p>
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