



Ex-mark: II 2 G Ex db II C T6 Gb/ II 2 D Ex tb III C
T80°C Db Ex-mark: II 2 G Ex db II C T6 Gb/ II 2 D Ex tb
III C T80°C Db

Explosion-Proof Camera (ESD-41 A)

Installation Manual



Foreword

General

This manual introduces the structure and installation of the Explosion-Proof PTZ Camera (hereinafter referred to as "the Camera"). Read carefully before using the device, and keep the manual safe for future reference.



Figures in this manual are only for reference, and might differ from the actual product.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.0	First release.	December 2023

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited to: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.

- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Explosion-Proof Structure



- The casing is designed to not cause external explosions due to the operation of its internal electric apparatus even if an explosive gas mixture were to enter the device. Several factors were considered in designing the camera to guarantee that it is explosion-proof, such as the maximum surface temperature of the casing, casing intensity, the length between the components and the junction surface gap.
- The device casing passed the water pressure test in IEC 60079-1:2014. The test pressure was 3 MPa, lasting 10 s–12 s, and the result was no water leakage or deformation.
- When the device is working normally, the maximum surface temperature of the casing cannot exceed 80°C.
- The observation window is made of tempered glass, and it has passed the impulse test and thermal shock test.
- The protection level of the casing is IP68 rated (2 m/2 h).
- The camera uses compression nut equipment to lead the cable in, and fully compresses the cable without allowing it to become loose.

Transportation Requirements



- Do not place heavy stress on the device, violently vibrate or immerse it in liquid during transportation.
- The device must not be thrown, rolled over or stepped on. Handle with care during transportation.
- The device must not be shipped together with corrosive, flammable or explosive materials.
- The complete package is necessary for transportation. Please keep the packing box safe. Whether it is delivered by the contractor or returned to the factory for repair, we will assume no responsibility for any damage or problems caused during transportation due to the incomplete package being sent.

Storage Requirements



- Do not place heavy stress on the camera, violently vibrate or immerse it in liquid during storage.
- Keep the warehouse well ventilated, and free of corrosive gases, strong mechanical vibrations, electric shocks, and strong magnetic fields. The ambient temperature must be –40 °C to +55 °C, and the relative humidity must be more than 85%.
- Do not expose the camera to fire sources, and do not store it together with corrosive, flammable or explosive materials.

Installation Requirements



- Make sure that the power is off when you connect the cables, install or disassemble the device.
- All installation and operations must conform to the local electrical safety code and standards.
- Buckle the safety hook before installing the device if it is included.



For devices that support lasers, do not aim the laser directly at eyes. And keep it a proper distance away from flammables to avoid the risk of fire.



- Use fasteners with a minimum yield strength of 450 MPa.
- The device must be installed in a location that only professionals can access.
- When installing the device, make sure that the converter is installed inside the bracket.
- To avoid damage, keep the device away from televisions, radio transmitters, electromagnetic devices, electric machines, transformers, and speakers. Do not install it in places with smoke or vapor, high temperature, and lots of dust. Do not install the device near a heating furnace and other heat sources, such as a spotlight, kitchen, and boiler room.
- Prevent the device from falling down and from being exposed to violent vibrations.
- We recommend you use the camera with a lightning surge protector for stronger protection against lightning. For outdoor scenarios, strictly comply with the lightning protection regulations.
- Before installing the device, confirm the salt spray tolerance level corresponding to its model. Do not install the device in an environment with higher salt spray levels than it can tolerate. There are three salt spray tolerance levels for the device.
 - ◇ Devices with high salt spray tolerance levels can be installed in areas that are within 1500 meters of the sea, or on an offshore platform.
 - ◇ Devices with medium salt spray tolerance levels can be installed in areas that is 1500 meters away from the sea.
 - ◇ Devices that do not have salt spray tolerance can only be installed in areas that are 3000 meters away from the sea.
- The installer of the device must have required certification or qualified training for installing closed-circuit television (CCTV) systems. They must also be trained and certified to work at heights, and must have knowledge and skills in the following areas:
 - ◇ Basic knowledge and skills in installing CCTV systems and components.
 - ◇ Basic knowledge and skills in low-voltage wiring and in connecting low-voltage electronic circuits.
 - ◇ The ability to read and understand the manual.
- Requirements for lifting the device:
 - ◇ The device lifting equipment must be able to adapt to the installation site and the installer must have knowledge of the installation method.
 - ◇ The device lifting equipment must reach the installation height.
 - ◇ The device lifting equipment must have a high safety rating.

Operation Requirements



- Make sure that the power supply conforms to the requirements on the nameplate before powering on the device.
- Provide the device with a stable long-time power supply.
- A control cable around 1. meter long is packaged with the device before delivery. When connected to the explosion-proof control cabinet, the control cable becomes protected by the explosion-proof flexible tube.
- Make sure the explosion-proof components are complete without any cracks or defects.
- Make sure that the device is properly grounded.
- If the device will not be used for a long time, unplug the power cord.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the device label.
- Do not connect multiple devices to the same power adapter to avoid the risk of overheating or fire if the rated load is exceeded. Please use the power adapter provided by the manufacturer.

 WARNING

- The cover must not be opened while the device is powered on.
- Immediately cut the power and disconnect the power cord if smoke, noise or a disgusting smell comes from the camera. Make sure to contact your local retailer or after-sales service.
- While using, maintaining and cleaning the device, avoid static charge to prevent the device from exploding. Do not touch, wipe or replace the device in an explosive environment or in the presence of explosive gases.



- Operating temperature: -40 °C to +60 °C.
- Make sure there are no foreign metal objects or flammables in the device. Foreign objects inside the device might cause fire, short-circuits and damage to the device. Carefully protect the device from rain and sea water. Power off the device and disconnect the power cord immediately if water or other liquids flow into it, and contact after-sales service.
- Do not aim the lens at intense light sources, including sunlight and incandescent light to avoid the lens becoming damaged.
- After unpacking, even if the packing bag is damaged or leaking air, and the desiccant particles are different colors, the normal use of the device will not be affected.
- We are not liable for any problems caused by the incorrect use of the device.
- We are not liable for any problems caused by overuse of certain components.

Maintenance Requirements.

- For any questions on device maintenance, consult professionals.
- Cut off the power and consult after-sale service before maintenance.
- Clean the casing with a soft cloth. To remove the dirt, dip the soft cloth in detergent, wring it out to wipe away the dirt. Dry the casing with a dry soft cloth. Do not use gasoline, paint thinner, or other chemicals to clean the casing, and avoid long time contact between the plastic or rubber material and the casing. This is to avoid the casing becoming deformed and paint flaking.
- Contact your local dealer or the service center nearest to you if the device needs internal configuration or maintenance. Do not dismantle or modify the device without a qualified professional present to avoid the risk of danger or damage to the device. We will assume no responsibility for any problems caused by unauthorized modifications or maintenance.
- All maintenance personnel of the device must have required certification or qualified training for performing maintenance on closed-circuit television (CCTV) systems. They must also be trained and certified to work at heights, and must have knowledge and skills in the following areas:
 - ◇ Basic knowledge and skills in installing CCTV systems and components.

- ◇ Basic knowledge and skills in low-voltage wiring and in connecting low-voltage electronic circuits.
- ◇ The ability to read and understand the manual.

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1 Packing List

Check the Camera and accessories in the packing box carefully after unpacking. If any discrepancy occurs or anything is missing, contact local supplier or customer service center. The product is subject to change without further notice. If there is any question or dispute, refer to our final explanation.

Table 1-1 Packing list

Name	Quantity	Description
Explosion-proof camera	1	—
Installation manual	1	—
Certificate	1	—
Set of screws and nuts	1	Used to fix bottom bracket
Hexagon wrench	1	—
Wall mount bracket	1	—

2 Overview

2.1 Introduction

As a new generation of explosion-proof monitoring device, the Camera adopts advanced manufacturing technique and new design. It is integrated with clear image, digitization, intelligence, and easy installation. After installing the Camera, the overall aesthetics of the monitoring site is not affected.

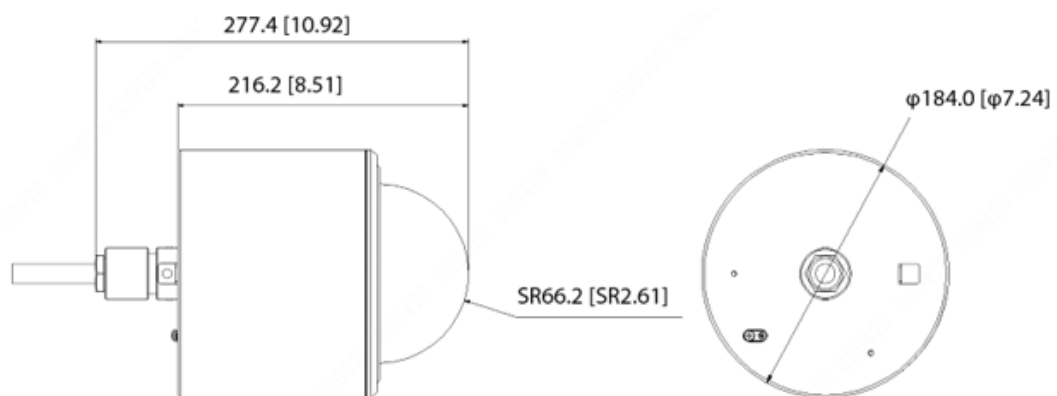
The Camera is designed and manufactured in strict accordance with standards such as IEC60079-0 *EXPLOSIVE ATMOSPHERES Part 1: Equipment General Requirement*, IEC60079-1 *Explosive Atmospheres, Part 1: Equipment Protection by Flameproof Enclosures "d"*, and IEC60079-31 : *Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t"*. The enclosure is rust-proof and it is rated IP68. The Camera can be widely used in oil, chemical engineering, wharf, port, mine, aerospace, food processing, and other sites.

2.2 Application

The Camera is suitable for Zone 1 and Zone 2 with explosive gas environment, and Zone 21 and Zone 22 with explosive dust environment.

2.3 Dimensions

Figure 2-1 Dimensions (mm [inch])



2.4 Mechanical Specification

Table 2-1 Mechanical specification

Parameter	Description
Material	Stainless steel 304 by default; stainless steel 316L customizable
IP rating	IP68
Cable outlet hole	1
Cable outlet hole thread	1 G3/4 internal thread

Parameter	Description
Installation	Wall mount; ceiling mount

2.5 Electric Specification

Table 2-2 Electric specification

Parameter	Description
Input voltage	PoE: 100-240 VAC or POE (AT standard) Optical fiber: 100-240 VAC
Maximum current	≤ 1 A
Power consumption	≤ 25 W
Electrical connection	There are power, network and alarm ports on the pigtail cable by default. A 1-meter-long explosion-proof flexible tube is needed to connect these ports.

2.6 Environment Requirements

Table 2-3 Environment requirements

Parameter	Description
Air pressure	80 kPa–110 kPa
Operating temperature	-40 °C to +60 °C
Operating humidity	$\leq 95\%$ RH (+25 °C)

3 Installation

Before installing the Camera, pay attention to the following instructions.

- Make sure that there is no obvious damage of the Camera, and the accessories are complete.
- Do not disassemble the Camera randomly. Operate it in accordance with the manual.
- Connect the Camera to power supply specified in "2.5 Electric Specification".
- Always use the Camera under the air pressure, operating temperature and operating humidity specified in "2.6 Environment Requirements".
- Explosion-proof products are special. Power and debug them indoors, and familiarize them before installation.

3.1 Installation Accessories and Tools

Figure 3-1 Dimensions of the bracket and installation holes (mm)

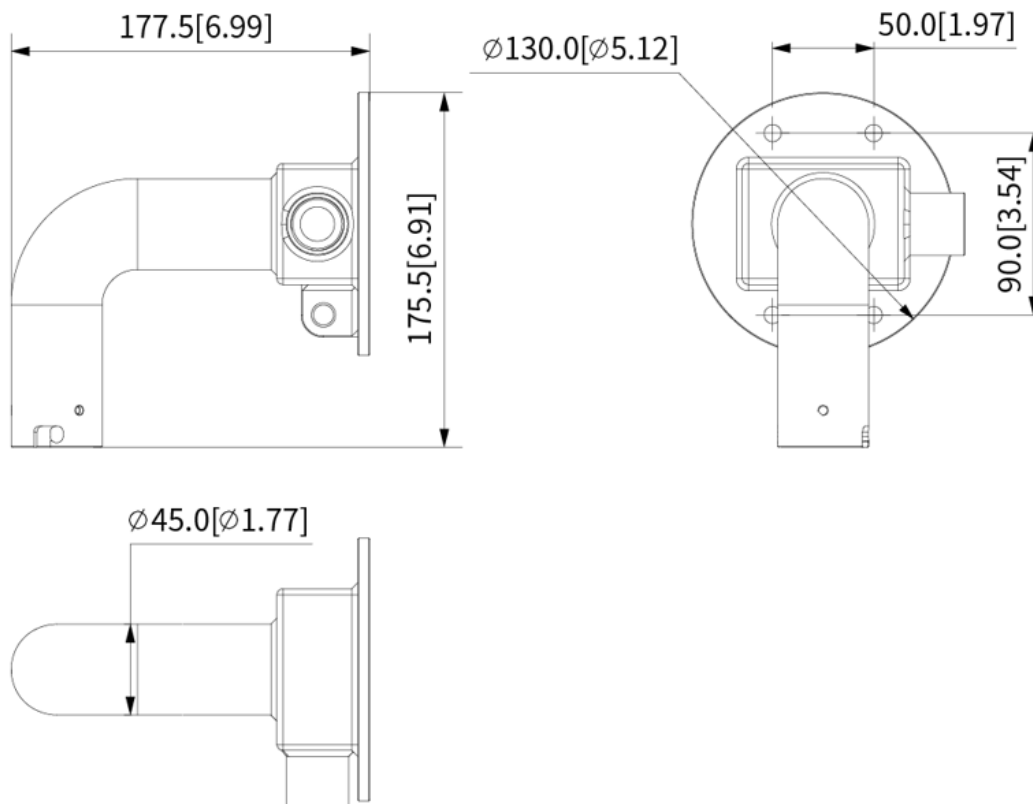
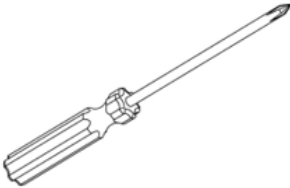


Table 3-1 Tools

Tool	Description
	1 cross screwdriver: 6 × 150

Tool	Description
	1 hexagon adjustable wrench: 300 × 36

3.2 Connecting Cable and Flexible Tube

3.2.1 Cable Description

Before leaving the factory, a composite cable is connected to the Camera. The cable threads out from the outlet hole at the camera rear and it is 1.5 m by default. When in use, the cable needs to be covered with a 1-meter-long explosion-proof flexible tube, and then led into explosion-proof control cabinet to connect to the system bus.

Figure 3-2 Cable connection

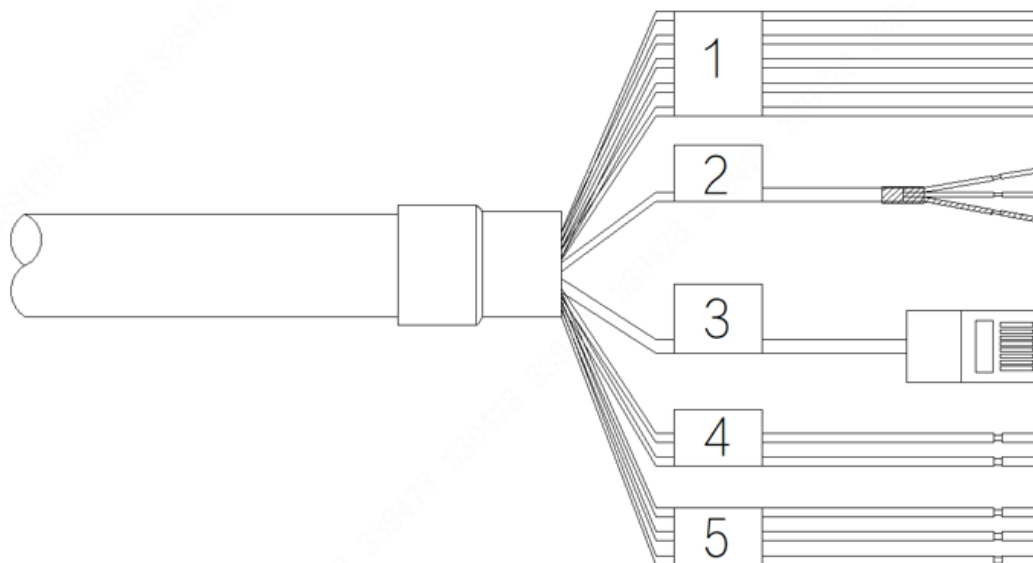


Table 3-2 Cable description

No.	Description
1	Alarm port • Blue: Alarm output 1 • Green: Contact switch • Yellow-green: Alarm grounding wire • Red: Alarm input 1 • Brown: Alarm input 2

No.	Description
2	Audio port ● Red: Audio output ● White: Audio input ● Black: Audio grounding wire
3	Ethernet port
4	RS-485 port ● Yellow: A+ ● Orange: B-
5	Power port: 220 VAC ● Brown: Live wire ● Blue: Neutral wire ● Yellow-green: Grounding wire

3.2.2 Connecting Explosion-Proof Flexible Tube

Procedure

- Step 1** Unscrew the cable nut from the bottom of the wall mount bracket, and then cover the cable with the explosion-proof flexible tube.

Figure 3-3 Connecting component (1)

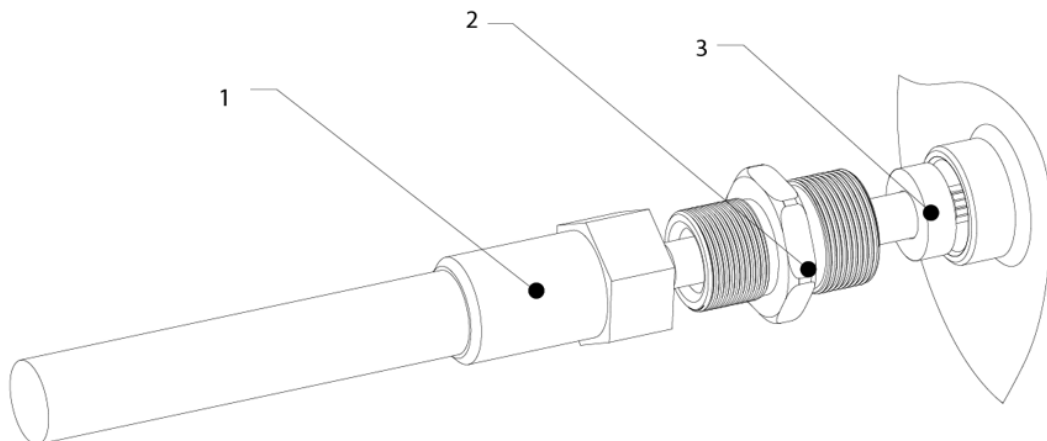


Table 3-3 Connecting component (1)

No.	Description
1	Explosion flexible tube
2	Outlet hole
3	Silicone ring

- Step 2** Tighten the threaded connector and then the explosion flexible tube. Keep the silicone ring and metal gasket provided with the Camera properly for further use.

Figure 3-4 Connecting component (2)

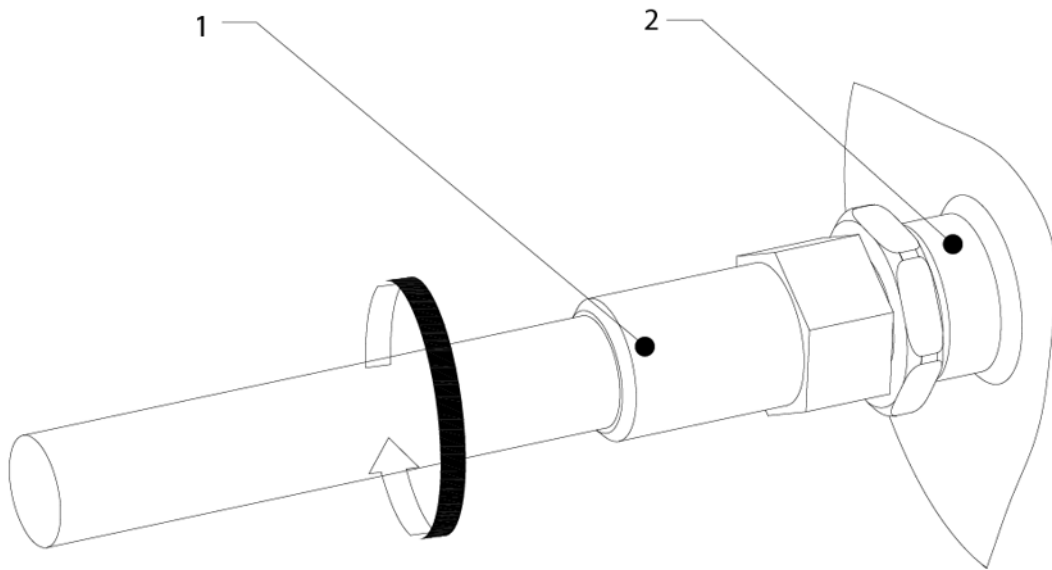


Table 3-4 Connecting component (2)

No.	Description
1	Explosion flexible tube
2	Outlet hole

3.3 Installing the Camera

3.3.1 Precautions

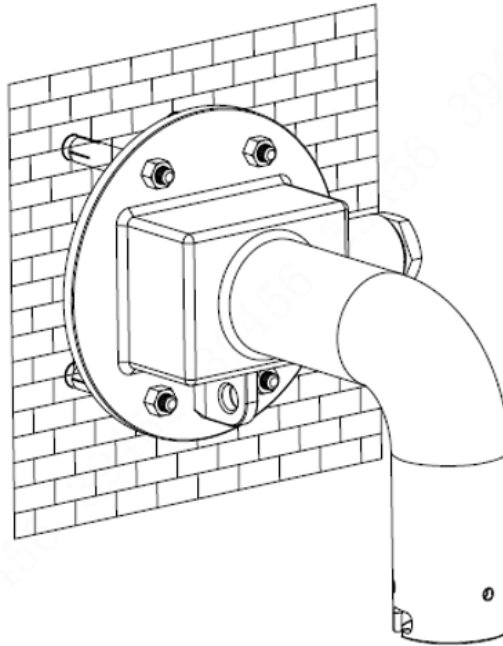
- Choose a proper hole location for the bracket and use high-quality expansion bolts to fix the bracket.
- Install the explosion-proof control cabinet in a location that is easy to install and maintain.
- Lay the cable to the control cabinet through a groove.
- Lead the cable attached at the Camera rear to the hole on the bracket when installing the Camera.
- Use explosion-proof flexible tube to protect the cable when connecting it to the control cabinet.

3.3.2 Procedure

Procedure

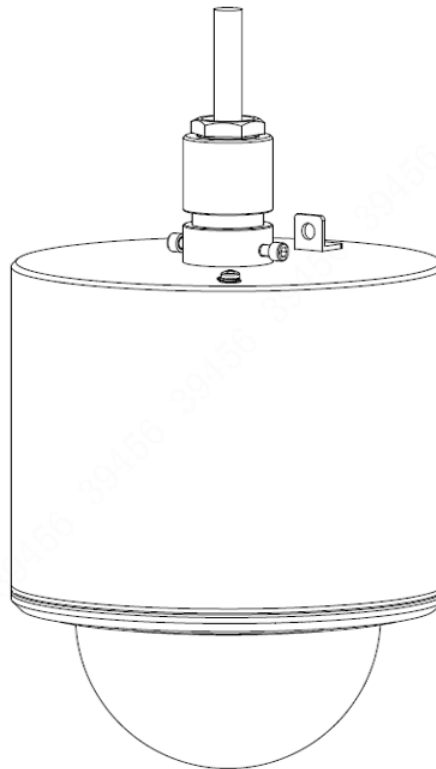
- Step 1 Use 4 expansion bolts to fix the wall mount bracket on the wall.

Figure 3-5 Install the bracket



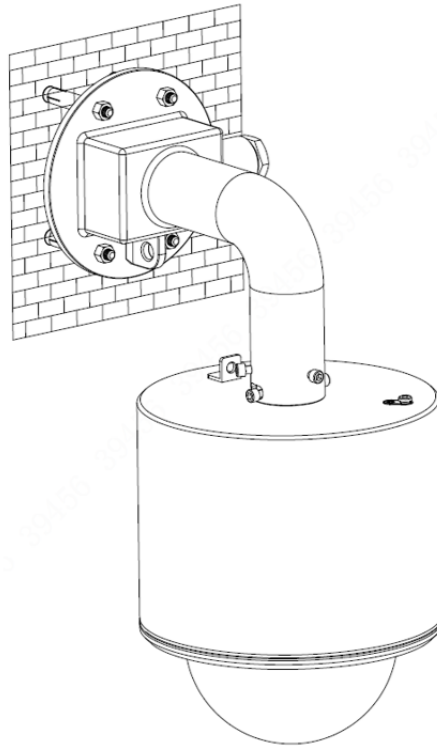
Step 2 Attach 2 M5 × 10 hexagon socket head cap set screws to the cable outlet hole of the Camera.

Figure 3-6 Attach the screws



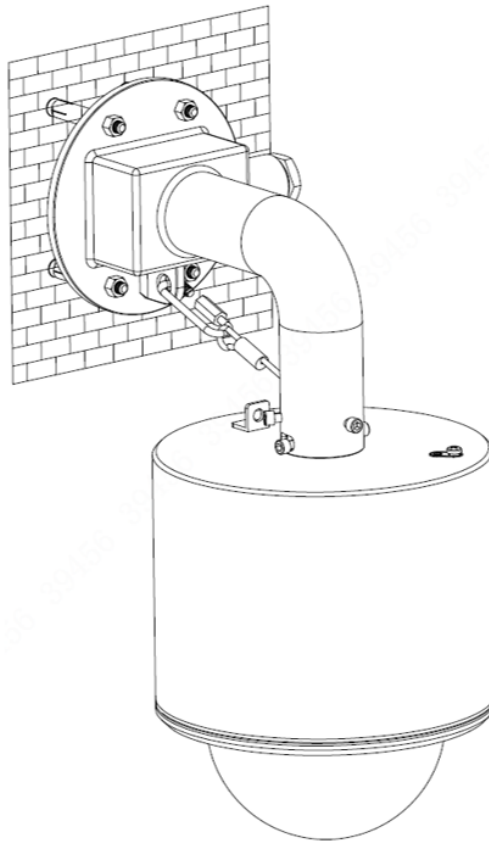
Step 3 Use 3 M5 × 10 hexagon socket head cap set screws to secure the Camera on the bracket.

Figure 3-7 Fix the Camera



Step 4 Connect the safety rope to the bracket and the Camera.

Figure 3-8 Attach the safety rope



Step 5 Connect the cables among the Camera, bracket, flexible tube and control cabinet.

Figure 3-9 Installation and cable layout

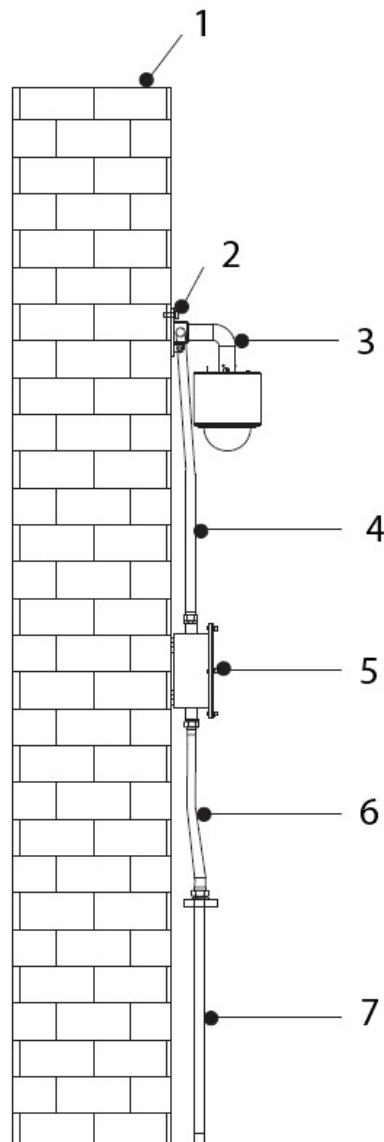


Table 3-5 Installation and cable layout

No.	Description
1	Wall
2	4 M6 expansion screws used to fix the bracket on the wall
3	Explosion-proof wall mount bracket
4	Explosion-proof flexible tube
5	Explosion-proof control cabinet
6	Explosion-proof flexible tube
7	Galvanized steel pipe connected to the terminal

4 Troubleshooting

For some common issues, you can solve them through the following solutions.

Table 4-1 Problems, possible reasons and solutions

Problem	Reason	Solution
No image on the webpage.	No power supply.	Check whether the power supply is normal.
	The video signal cable is in poor contact.	Check whether the video signal cable is normal.
Intermittent video.	The video signal cable is in poor contact.	Check whether the video signal cable is normal.
	The signal cable is not properly connected	Check whether the signal cable is correctly connected.
	The communication distance is too long that the the signal is reduced.	Add repeaters to extend the communication distance.
Cannot operate the Camera.	The Camera model was set incorrectly.	Set the model according to Camera parameters.
Self-check cannot be performed, or there is noise when performing self-check.	Mechanical fault.	Contact after-sales service.

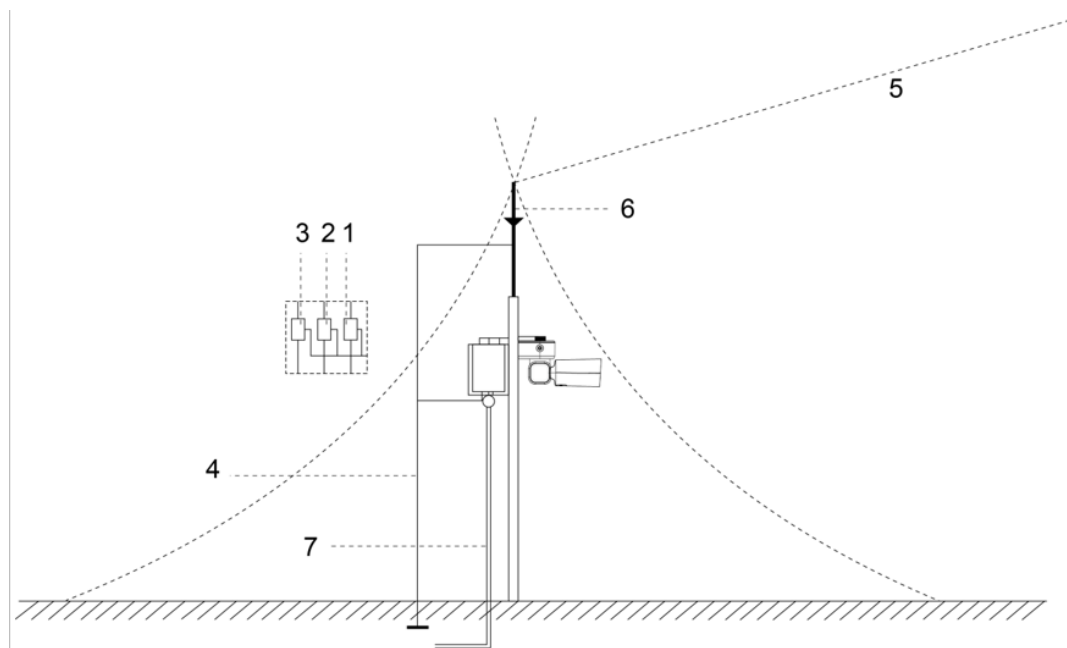
Appendix 1 Thunder-Proof and Surge Protection

Appendix 1.1 Installing Lightning Protection Devices Outdoors

Transient voltage suppressor (TVS) is applied to protect the Camera against voltage spikes and overvoltage below 6000 VAC. However, it is still necessary to take safeguard measures when installing the Camera according to your local electrical safety regulations.

- The distance between the signal transmission cable and high-voltage device (or high-voltage cable) shall be at least 50 m.
- When laying cables outdoors, try to lay them under the eaves.
- At open places, lay cables underground by hermetic steel tube, and then do equipotential grounding to both ends of steel tubes. Laying overhead power cables is prohibited.
- At places with severe thunderstorms and induced voltage (like substation), high-powered lightning protection devices and lightning conductors are required.
- When laying cables and connecting lightning protection devices, you must comply with regional laws and regulations.
- The grounding devices must have strong anti-interference ability and must comply with electrical safety standards. Make sure that cable connections are correct; otherwise short circuit and accidents might occur. When the electrical system is connected to the ground cable, the impedance shall not exceed 4Ω , and the cross-sectional area of the ground cable shall not exceed 25 mm^2 .

Appendix Figure 1-1 Installing lightning protection devices outdoors (1)

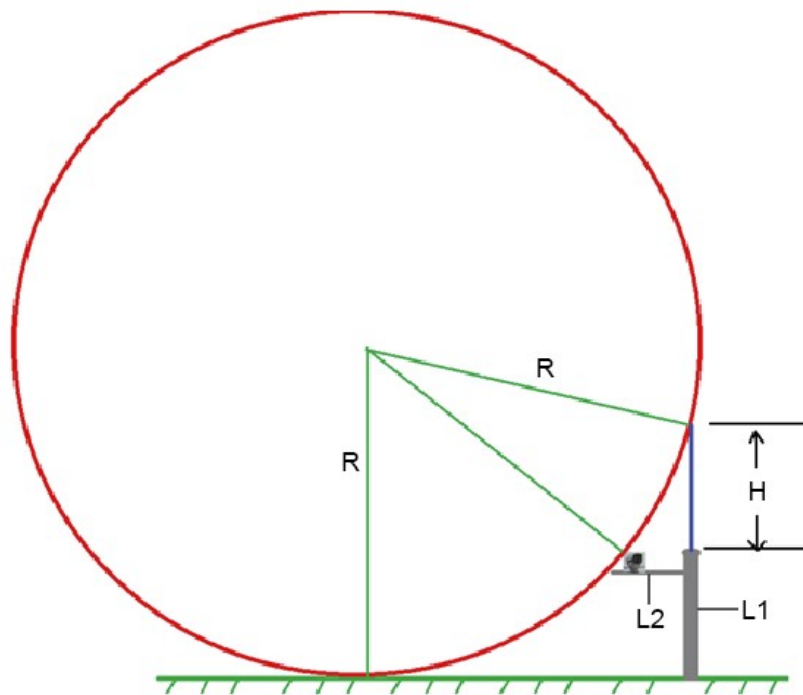


Appendix Table 1-1 Installing lightning protection devices

No.	Description
1	Video lightning conductor.

No.	Description
2	Communication lightning conductor.
3	Power supply lightning conductor.
4	Impedance of the cable connected to the ground wire should be less than 4 Ω.
5	The radius is 60 m.
6	Lightning conductor.
7	Steel tube.

Appendix Figure 1-2 Installing lightning protection devices (2)



- R: The radius of the circle, and R = 60 m;
- L1: The length of the pole that holds the lightning conductor;
- L2: The length of the rail that holds the Camera;
- H: The length of the lightning conductor.

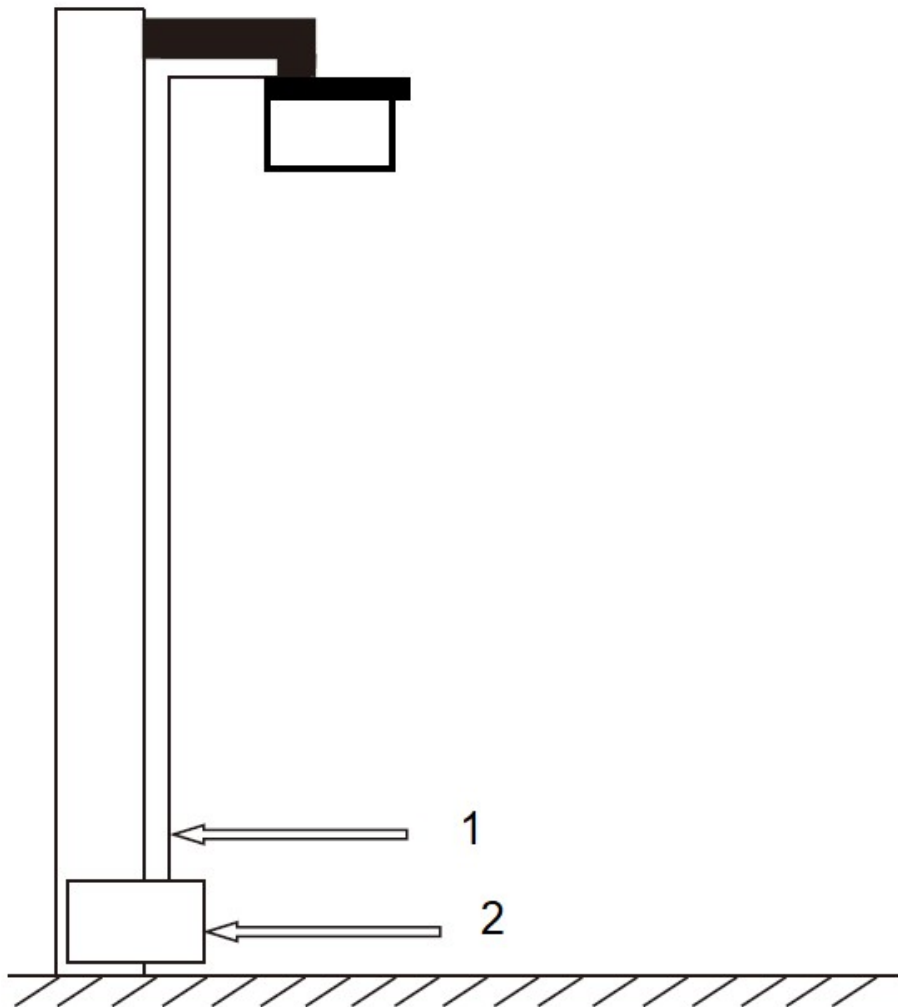
To get the value of L1, you need to use the formula:

$$\left(\sqrt{R^2 - [R - (L1 + H)]^2} - L2 \right)^2 + (R - L1)^2 = R^2$$

Appendix 1.2 Installing Lightning Protection Devices Indoors

You shall use multiple copper cables whose cross-sectional area are not less than 25 mm² to connect the yellow-green ground cable/ground screws to the indoor equipotential earthing terminals.

Appendix Figure 1-3 Installing lightning protection devices indoors



Appendix Table 1-2 Installing lightning protection device

No.	Name
1	Yellow-green grounding cable
2	Indoor equipotential grounding terminal

Appendix 2 Wire Gauge Reference Sheet

Appendix Table 2-1 Wire Gauge Reference Sheet

Metric Bare Wire Diameter (mm)	AWG	SWG	Bare Wire Cross Section Area (mm ²)
0.050	43	47	0.00196
0.060	42	46	0.00283
0.070	41	45	0.00385
0.080	40	44	0.00503
0.090	39	43	0.00636
0.100	38	42	0.00785
0.110	37	41	0.00950
0.130	36	39	0.01327
0.140	35	—	0.01539
0.160	34	37	0.02011
0.180	33	—	0.02545
0.200	32	35	0.03142
0.230	31	—	0.04115
0.250	30	33	0.04909
0.290	29	31	0.06605
0.330	28	30	0.08553
0.350	27	29	0.09621
0.400	26	28	0.1257
0.450	25	—	0.1602
0.560	24	24	0.2463
0.600	23	23	0.2827
0.710	22	22	0.3958
0.750	21	—	0.4417
0.800	20	21	0.5027
0.900	19	20	0.6362
1.000	18	19	0.7854
1.250	16	18	1.2266
1.500	15	—	1.7663
2.000	12	14	3.1420
2.500	—	—	4.9080
3.000	—	—	7.0683

Appendix 3 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations from Dahua on how to create a more secured security system.

Mandatory actions to be taken for basic device network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters.
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
- Do not contain the account name or the account name in reverse order.
- Do not use continuous characters, such as 123, abc, etc.
- Do not use overlapped characters, such as 111, aaa, etc.

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your device (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the device is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your device network security:

1. Physical Protection

We suggest that you perform physical protection to device, especially storage devices. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable device (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The device supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024–65535, reducing the risk of outsiders being able to guess which ports you are using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the device, thus reducing the risk of ARP spoofing.

8. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

9. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

10. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

11. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check device log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

12. Network Log

Due to the limited storage capacity of the device, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

13. Construct a Safe Network Environment

In order to better ensure the safety of device and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.

More information

Please visit Dahua official website security emergency response center for security announcements and the latest security recommendations.

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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