Explosion-Proof Bullet Network Camera

Quick Start Guide

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These clauses apply only to the products bearing the corresponding mark or information.

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable

protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU, the ATEX Directive 2014/34/EU.

The full text of the EU declaration of conformity is available at the following internet address:
https://www.hikvision.com/en/support/compliance/declaration-of-conformity.



Directive 2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or disposeof it at designated collection points. For more information see: www.recyclethis.info.



Regulation (EU) 2023/1542 (Battery Regulation): This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery cannot be

disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Intended use of the camera

ATEX: II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80℃ Db IP68

IECEx: Ex db IIC T6 Gb/Ex tb IIIC T80℃ Db IP68

UL (Zone): Class I, Zone 1, AEx db IIC T6; Zone 21, AEx tb IIIC T80°C

cUL (Zone): Ex db IIC T6 Gb X; Ex tb IIIC T80°C Db X

Hazardous Area Classification: Zone 1, Zone 2, Zone 21, Zone 22.

Hazardous Location Classification: Class I, Zone 1, Class I, Zone 2;

Zone 21, Zone 22

IP Degree: IP68 (2m, 2h)

Ex Standards:

IEC 60079-0: 2017	EN 60079-0: 2018
IEC 60079-1: 2014	EN 60079-1: 2014
IEC 60079-31: 2013	EN 60079-31: 2014
UL 60079-0: 2019	CSA 60079-0: 19
UL 60079-1: 2015	CSA 60079-1: 16

UL 60079-31: 2015 CSA 60079-31: 15

Nameplate:

Explosion-Proof Network Bullet Camera		
Product Model: Protection Level: IP68(2m/2h) Temperature:-40℃~ +60℃ Working Voltage:AC100~240V Working Current: ≤1000mA &IEEE 802.3at (42.5-57V DC) Product No.: xxxxxxxxxx Date of Production: xxxxxx Hangzhou Hikvision Digital Technology Co., Ltd. No.555 Qianmo Road, Binjiang District, Hangzhou , China	DEMKO 20 ATEX 2250X Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T80℃ Db IECEx UL 20.0035X Ex db IIC T6 Gb Ex tb IIIC T80℃ Db CE 0035	WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS CAUTION: USE M6x1.8L14 FASTENERS WITH YIELD STRENGTH ≥450MPa THE FLAMEPROOF JOINTS ARE NOT INTENDED TO BE REPAIRED M25x1.5

Explosion-Proof Network Bullet Camera		
Product Model: Protection Level: IP68(2m/2h) Temperature:-30℃~ +60℃ Working Voltage:AC100~240V Working Current: ≤1000mA &IEEE 802.3at (42.5-57V DC) Product No.: Date of Production: Hangzhou Hikvision Digital Technology Co., Ltd. No.555 Qianmo Road, Binjiang District, Hangzhou , China	DEMKO 20 ATEX 2250X Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T80℃ Db IECEx UL 20.0035X Ex db IIC T6 Gb Ex tb IIIC T80℃ Db CE 0035	WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS CAUTION: USE M6x1.8L14 FASTENERS WITH YIELD STRENGTH ≥450MPa THE FLAMEPROOF JOINTS ARE NOT INTENDED TO BE REPAIRED M25x1.5

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Explosion-Proof Network Bullet Camera		
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Ambient Temperature: -30°C ~+60°C, or -40°C ~ +60°C if the camera model has an “H” in its suffix.

Température ambiante : -30 °C ~ + 60 °C, ou -40 °C ~ + 60 °C si le modèle de l'appareil contient un « H » dans son suffixe.

Industry Canada ICES-003 Compliance

Conformité Industrie Canada ICES-003

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Ce dispositif répond aux exigences des normes CAN ICES-3 (A)/NMB-3(A).

Warning:

Avertissement :

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Il s’agit d’un produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l’utilisateur peut être amené à prendre les mesures qui s’imposent.

Safety Instruction

Directives de sécurité

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

Les présentes directives visent à garantir que l'utilisateur puisse utiliser le produit adéquatement afin d'éviter tout danger ou perte matérielle.

The precaution measure is divided into "Warnings" and "Cautions"

La mesure de précaution est divisée en «avertissements» et en «mises en garde»

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Avertissements : De graves blessures et même la mort peuvent survenir si l'un des avertissements n'est pas respecté.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

Mises en garde : Une blessure ou un bris d'équipement peuvent survenir si l'une des mises en garde n'est pas respectée.

	
Warnings Follow these safeguards to prevent serious injury or death. **Avertissements** Suivez ces mesures de sécurité afin d'éviter des blessures graves ou la mort.	**Cautions** Follow these precautions to prevent potential injury or material damage. **Mises en garde** Suivez ces mesures de prévention afin d'éviter toute blessure ou tout dommage matériel.

Warnings

Avertissements

- For device with this sticker, this device is intended for



  installation in a restricted access location, access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.

  Si l'appareil est doté de cet autocollant, il est destiné à être installé dans un endroit à accès restreint atteignable uniquement par le personnel d'entretien ou des utilisateurs qui ont été informés des raisons des restrictions appliquées à l'emplacement et des précautions à prendre.

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

  La configuration appropriée de tous les mots de passe et autres paramètres de sécurité relève de la responsabilité de l'installateur ou de l'utilisateur final.

- Do not stare at the operating light source. May be harmful to the eyes. Wear appropriate eye protection or do not turn on the supplement light when you assemble, install or maintain the camera.

  Ne pas regarder la source de lumière. Cela peut être nocif pour les yeux. Porter un dispositif de protection oculaire approprié

ou ne pas allumer la lampe d'appoint lors du montage, de l'installation ou de l'entretien de l'appareil.

- The both internal and external earthing shall be connected reliably.

  Les mises à la terre interne et externe doivent être adéquatement connectées.

Ground wire cross-sectional area of not less than the phase connector cross-sectional area level, at least 4 mm^2.

La zone transversale du fil de mise à la terre ne doit pas être inférieure au niveau de la zone transversale du connecteur de phase, au moins 4 mm^2.

- Suitable IECEx/ATEX certified flameproof 'db' and dust ignition protection 'tb' cable glands or listed fittings with same hazardous location classfications, correctly installed and suitable for the conditions of use.

  Des presse-étoupes antidéflagrants certifiés IECEx/ATEX « db » avec protection anti-poussière « tb » ou raccords répertoriés avec les mêmes classifications pour zones dangereuses, adéquatement installées et adaptées aux conditions d'utilisation.

- IECEx/ATEX certified cable glands are needed during the installation.

  Les presse-étoupes doivent être certifiés IECEx/ATEX lors de l'installation.

- All the electrical operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations of the nation and region.

Toute exploitation de matériel électrique doit être rigoureusement conforme aux règlements de sécurité électrique, de prévention des incendies et autres réglementations nationales et régionales.

- Make sure that the power has been disconnected before you wire, install or disassemble the camera. Never wire, install or disassemble the camera in explosive environment.

  Assurez-vous que l'alimentation a été déconnectée avant de câbler, d'installer ou de démonter la caméra. Ne jamais câbler, installer ou démonter la caméra dans un environnement explosif.

- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.

  Ne pas connecter plusieurs appareils à un seul adaptateur d'alimentation, car une surcharge de l'adaptateur peut entraîner une surchauffe et un risque d'incendie.

- To avoid fire danger caused by electrostatic charge, never touch or wipe the camera in explosive environment. Perform the wiping and replacing accessories only under non-explosive environment with the provided glove.

  Pour éviter tout risque d'incendie dû à une charge électrostatique, ne touchez et n'essuyez jamais la caméra dans un environnement explosif. Procédez à l'essuyage et au remplacement des accessoires uniquement dans un environnement non explosif à l'aide du gant fourni.

- When the camera is installed on wall or ceiling, the device shall be firmly fixed.

Lorsque la caméra est installée au mur ou au plafond, elle doit être fermement fixée.

- If smoke, odors or noise rise from the camera, turn off the power at once and unplug the power cable, and then contact the service center.

  Si de la fumée, des odeurs ou du bruit proviennent de la caméra, coupez l'alimentation aussitôt et débranchez le câble d'alimentation, puis communiquez avec le centre de service.

- If the camera does not work properly, contact your dealer or the nearest service center. Never attempt to disassemble the speed dome yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

  Si la caméra ne fonctionne pas adéquatement, contactez votre distributeur ou le centre de service le plus près. N'essayez jamais de démonter la caméra dôme haute vitesse par vous-même. (Nous déclinons toute responsabilité pour des problèmes causés par une réparation ou un entretien non autorisés.)

- The flameproof joints are not intended to be repaired.

  Les joints antidéflagrants ne peuvent être réparés.

- When assembly, operation and maintenance, the operator must follow the requirements of the IEC 60079-14: latest version Explosive atmosphere- Part 14: Electrical installation design, selection and erection, beside of the manufacturer's operation instruction or its National equivalent. In the United Statas, when assembly, operation and maintenance, the operator must

follow the requirements of Article 505 or 506 in the National Electrical Code, ANSI/NFPA 70.

Lors de l'assemblage, de l'utilisation et de l'entretien, l'utilisateur doit respecter les exigences de la norme IEC 60079-14 : dernière version Atmosphère explosive - Partie 14 : Conception, choix et montage de l'installation électrique, outre les recommandations d'utilisation du fabricant ou leur équivalent national. Aux États-Unis, lors du montage, de l'utilisation et de l'entretien, l'opérateur doit respecter les exigences de l'article 505 ou 506 du National Electrical Code, ANSI/NFPA 70.

- In Canada, CSA C22.1, when assembly, operation and maintenance, the operator must follow the requirements of Canadian Electrical Code, Part I.

  Au Canada, lors du montage, de l'utilisation et de l'entretien, l'opérateur doit respecter les exigences de la partie I du Code canadien de l'électricité (CSA C22.1).

- Please select cable and conduit fittings suitable for above +70°C.

  Sélectionner les raccords de câbles et de conduits adaptés à plus de +70 °C.



Cautions

Mises en garde

- The internal grounding terminal shall be used for the equipment grounding connection and that the external

terminal is for a supplementary bonding connection where local codes or authorities permit or require such connection.

La borne de mise à la terre interne doit être utilisée pour la connexion de MALT de l'équipement et la borne externe sert à une connexion de MALT supplémentaire lorsque les codes locaux ou autorités locales autorisent ou exigent une telle connexion.

- Make sure the power supply voltage is correct before using the camera.

  Assurez-vous que la tension d'alimentation est adéquate avant d'utiliser la caméra.

- Do not drop the camera or subject it to physical shock.

  Ne laissez pas tomber la caméra et ne la soumettez pas à un choc physique.

- To ensure explosion-proof performance, do not damage explosion-proof surface.

  Pour assurer une performance antidéflagrante, ne pas endommager la surface antidéflagrante.

- Do not touch sensor modules with fingers. If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period, please replace the lens cap to protect the sensor from dirt.

  Ne touchez pas les modules de capteur avec les doigts. Si un nettoyage est requis, utilisez un chiffon propre et un peu d'éthanol et essuyez-les délicatement. Si la caméra ne sert pas pendant une période prolongée, veuillez remettre le capuchon

protecteur sur la lentille pour protéger le capteur de la poussière.

- Do not aim the camera at the sun or extra bright places. Blooming or smearing may occur otherwise (which is not a malfunction), and affect the endurance of sensor at the same time.

  N'orientez pas la caméra vers le soleil ou vers des endroits très lumineux. Autrement, un effet de voile ou de bariolage peut apparaître (ce qui n'est pas un dysfonctionnement), et cela pourrait affecter tout à la fois l'endurance du capteur.

- The sensor may be burned out by a laser beam, so when any laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.

  Un faisceau laser peut brûler le capteur et donc, lorsqu'un équipement laser est utilisé, assurez-vous que la surface du capteur ne soit pas exposée au faisceau laser.

- Do not place the camera in extremely hot, cold (the operating temperature shall be-30°C ~+60°C, or -40°C ~ +60°C if the camera model has an "H" in its suffix), dusty or damp locations, and do not expose it to high electromagnetic radiation.

  Ne pas placer l'appareil dans un endroit extrêmement chaud ou froid (la température de fonctionnement doit se situer entre -30 °C ~ + 60 °C, ou -40 °C ~ + 60 °C si le modèle de l'appareil contient un « H » dans son suffixe) ni dans des endroits poussiéreux ou humides, et ne pas l'exposer à un rayonnement électromagnétique élevé.

- To avoid heat accumulation, good ventilation is required for operating environment.

  Pour éviter l'accumulation de chaleur, une bonne ventilation est requise dans le milieu de fonctionnement.

- Keep the camera away from liquid while in use.

  Gardez la caméra à l'écart du liquide pendant qu'elle fonctionne.

- While in delivery, the camera shall be packed in its original packing, or packing of the same texture.

  Pendant la livraison, la caméra doit être emballée dans son emballage d'origine ou dans un emballage de même texture.

- DO NOT replace the battery by yourself. If the battery is damaged, contact the dealer.
  NE PAS remplacer la pile vous-même. Si la pile est endommagée, contacter le revendeur.

- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

  L'utilisation ou le remplacement inadéquats de la pile peuvent entraîner un risque d'explosion. Remplacez-la par le même type ou l'équivalent du même type seulement. Jetez les piles usagées conformément aux directives fournies par le fabricant de la pile.

- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

  Si l'appareil ne fonctionne pas correctement, veuillez contacter votre distributeur ou le centre de service le plus proche. N'essayez jamais de démonter vous-même la caméra. (Nous déclinons toute responsabilité pour des problèmes causés par une réparation ou un entretien non autorisés.)

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1 Introduction

1.1 Overview

Explosion-proof network camera is a video security product capable of smart encoding and network transmitting. It adopts an embedded system and a high-performed hardware process platform to achieve good stability and reliability.

You can visit and configure your camera via web browser and client software.

Explosion-proof network camera adopts a stainless steel enclosure, receiving an IP68 rating for ingress protection.

Application Scenarios: oil industry, mine fields, chemical industry, port, grain processing industry, etc.

1.2 Model Description

This manual is applicable to the following models:

Table 1-1 Applicable Model List

Model List		
DS-2XE6825G0-IZHS	DS-2XE6845G0-LZHS	DS-2XE6885G0-IZ
DS-2XE6845G0-IZHS	DS-2XE6885G0-LZHS	DS-2XE6825G0-LZ
DS-2XE6885G0-IZHS	DS-2XE6825G0-IZ	DS-2XE6845G0-LZ
DS-2XE6825G0-LZHS	DS-2XE6845G0-IZ	DS-2XE6885G0-LZ

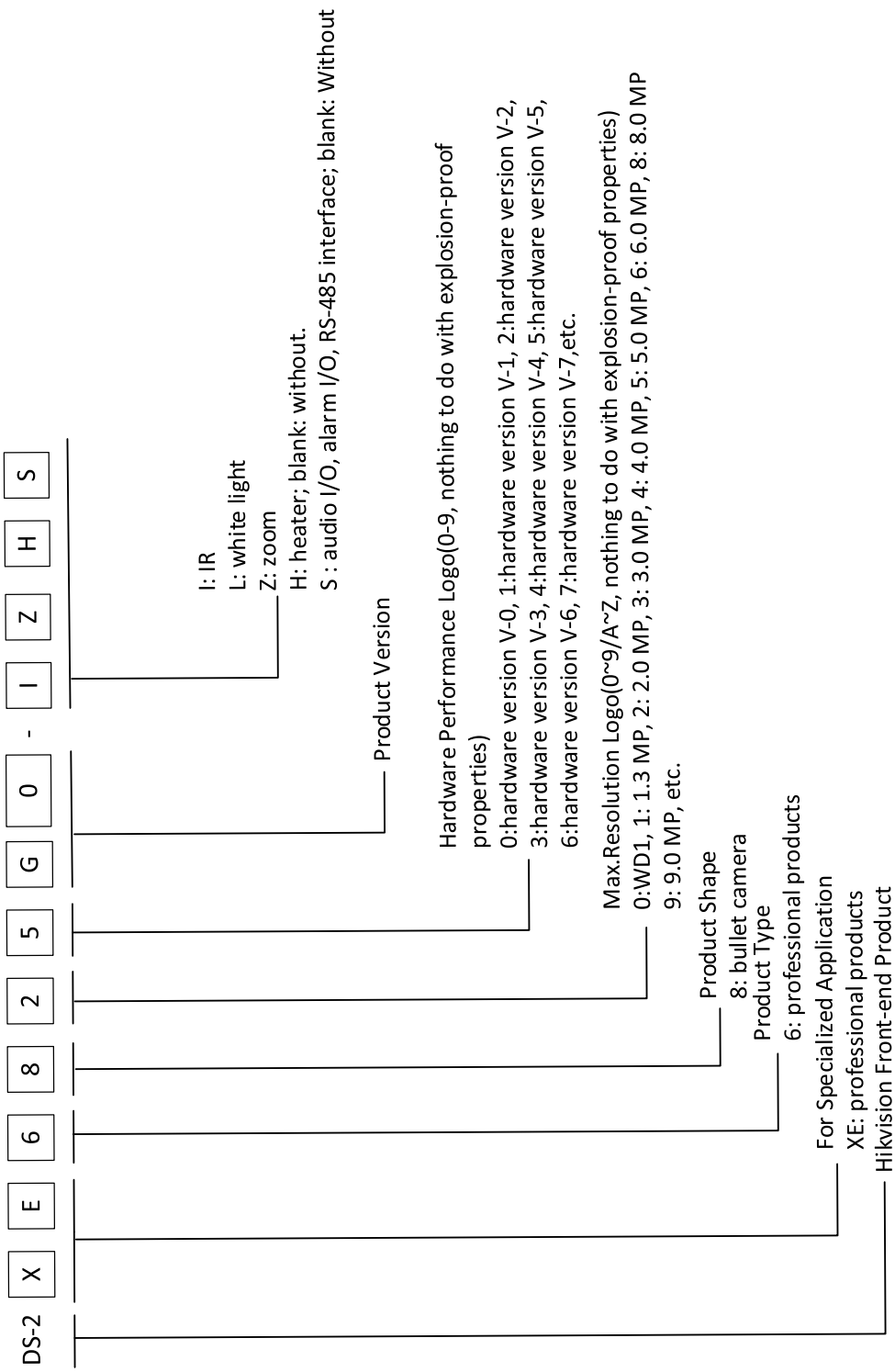


Figure 1-1 Model Explanation

2 Appearance

2.1 Overview

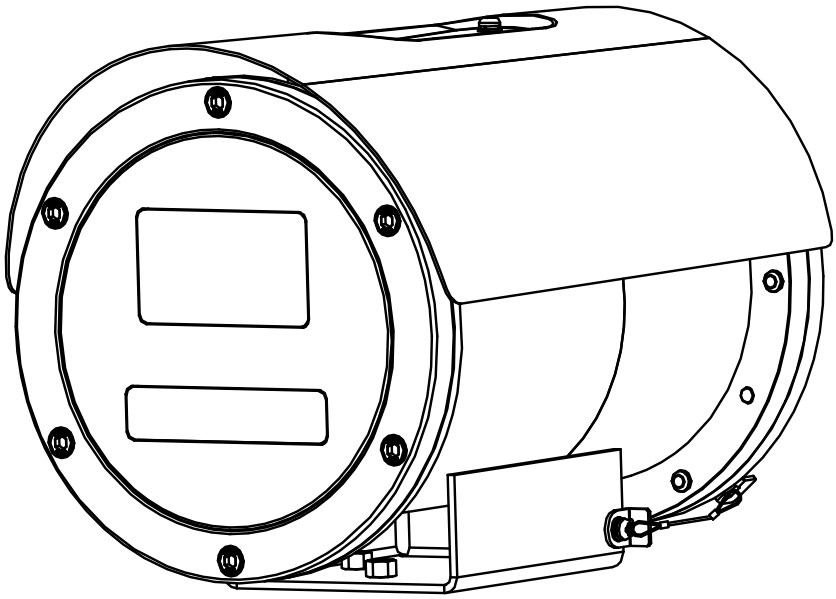


Figure 2-1 Overview

2.2 Cable Description

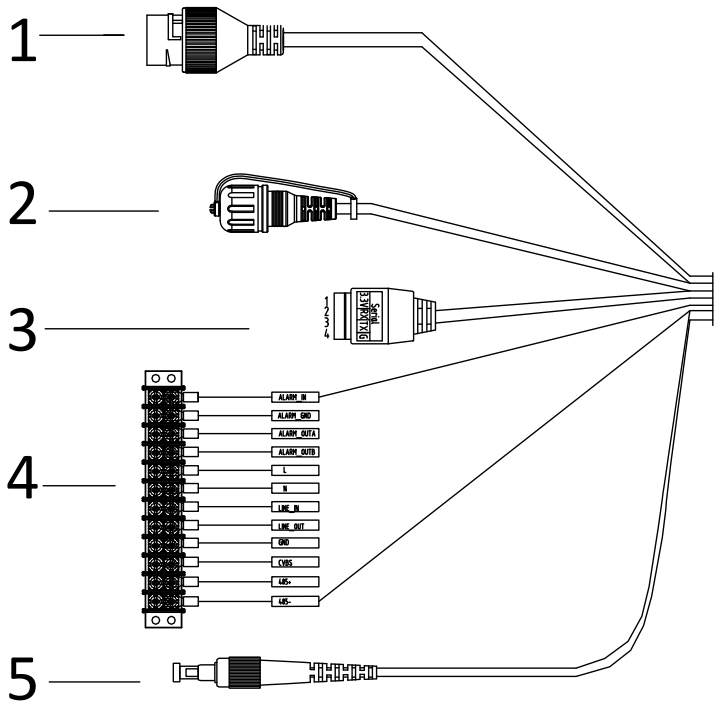


Figure 2-2 Overview of Cables

Table 2-1 Description of Cables

No.	Description	No.	Description
1	Network Interface	4	Alarm*/Power/Audio*/Grounding/CVBS/RS-485 Interface
2	Reset Interface	5	Fiber Optical Interface

3	Serial Port		

Note:

The interface varies with the models. Please refer to the product datasheet for details.

3 Installation

Before you start:

- Suitable certified flameproof 'd' and dust ignition protection 't' cable glands, correctly installed and suitable for the conditions of use.
- IECEx/ATEX certified cable glands are needed during the installation.
- Make sure the device in the package is in good condition and all the assembly parts are included.
- The standard power supply is 100 to 240 VAC, please make sure your power supply matches with your camera.
- Make sure all the related equipment is power-off during the installation.
- Check the specification of the products for the installation environment.
- Make sure that the wall is strong enough to withstand four times the weight of the camera and the bracket.

For the camera that supports IR, you are required to pay attention to the following precautions to prevent IR reflection:

- Dust or grease on the dome cover will cause IR reflection. Please do not remove the dome cover film until the installation is finished. If there is dust or grease on the dome cover, clean the dome cover with clean soft cloth and isopropyl alcohol.

- Make sure that there is no reflective surface too close to the camera lens. The IR light from the camera may reflect back into the lens causing reflection.
- The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDS. Fasten the dome cover to camera body so that the foam ring and the dome cover are attached seamlessly.

3.1 Wall Mounting

Before you start:

Loosen the screws on the side of the PT joint to uninstall it.

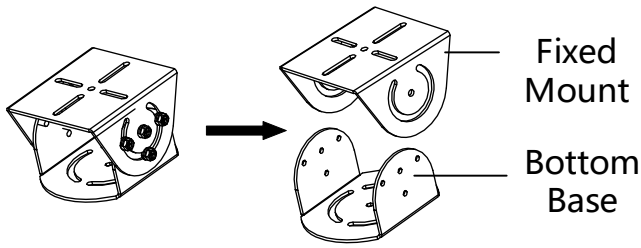


Figure 3-1 PT Joint

Steps:

1. Install the fixed mount of the PT joint to the camera with screws.

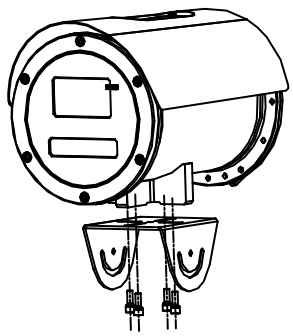


Figure 3-2 Install Fixed Mount to the Camera

2. Install the bottom base of the PT joint to the wall mounting bracket with the screws.

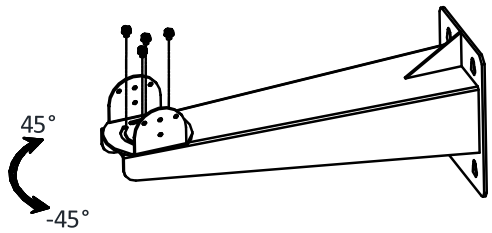


Figure 3-3 Install Bottom Base to the Bracket

3. Install the camera to the bracket with the screws.

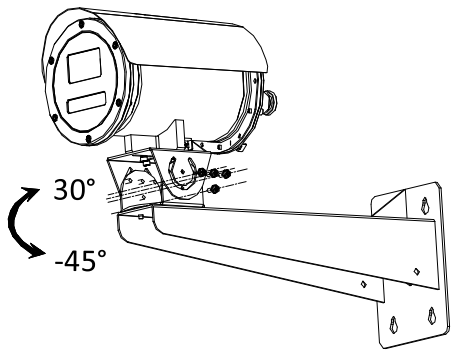


Figure 3-4 Install the Camera

4. Install the mounting base to the wall with the screws.

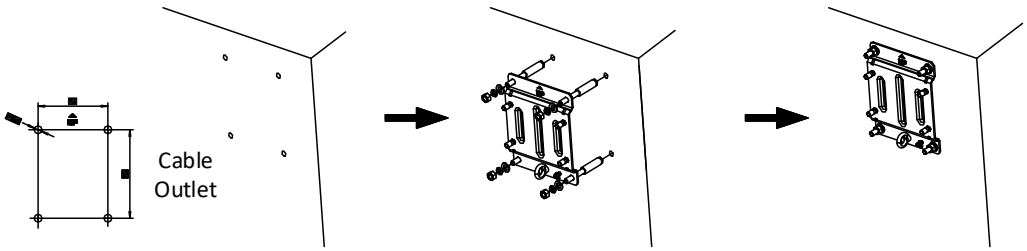


Figure 3-5 Install the Mounting Base

1). Mark the screw holes on desired mounting place on wall according to the dimension of the mounting base.

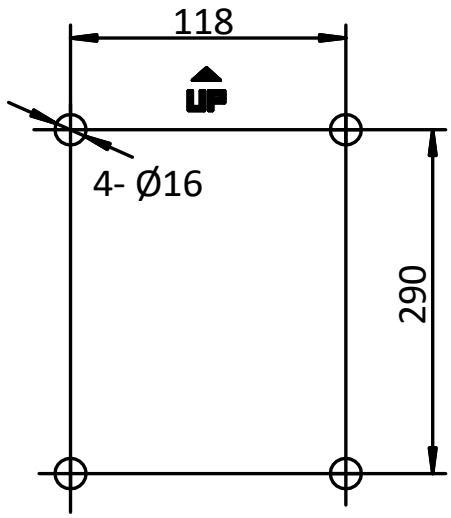


Figure 3-6 Dimension of the Mounting Base (mm)

2). Drill 4 screw holes for expansion bolts with a Φ16 mm drill.

3). Insert the expansion bolts (M12 × 130) and fix the mounting base at the direction indicated by the "UP" mark.

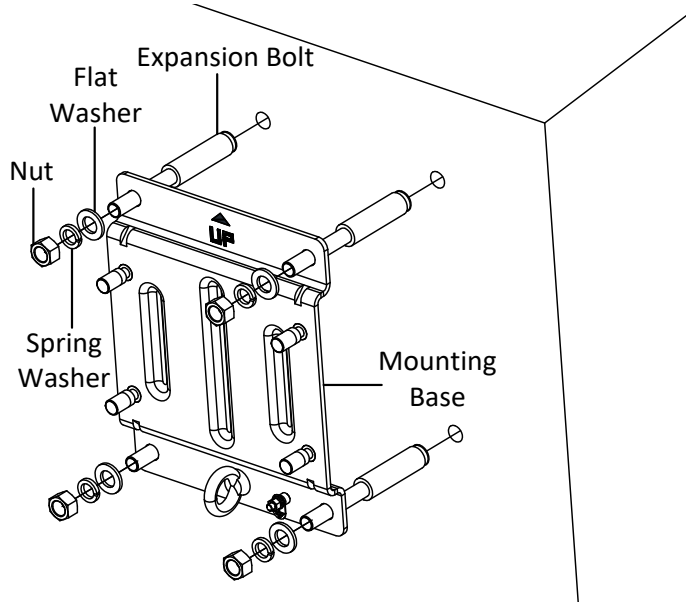


Figure 3-7 Install the Mounting Base

5. Fix the mounting bracket, together with the camera, to the mounting base.

1). Use safety rope to hook the camera and the mounting base.

2). Hang the bracket to the bolts on the mounting base. Secure the bracket with nuts, spring washers and flat washers.

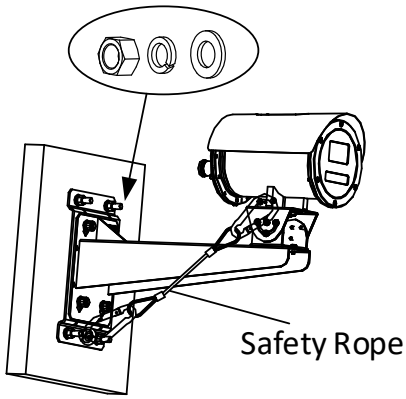


Figure 3-8 Fix the Mounting Bracket to Mounting Base

3.2 Cable Connection

Steps:

1. Loosen the screws to remove the back cover.

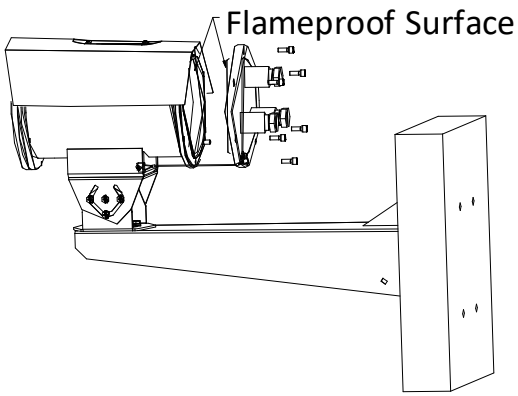


Figure 3-9 Remove the Back Cover

Note:

- Do not unhook the safety rope from the camera when removing the back cover. Be careful with the flameproof surface in case it is damaged.
- Refer to Figure 3-7 for the entry places. The maximum permitted number of these entries is 3.

2. Loosen the gland nut to take out the gasket and sealing ring.

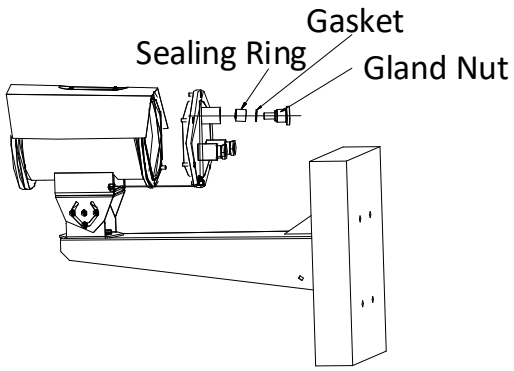


Figure 3-10 Loosen the Gland Nut

3. Loosen the thread cap of the adapter. Thread the cable through the adapter, sealing ring, conduit sealing fitting and the conduit.

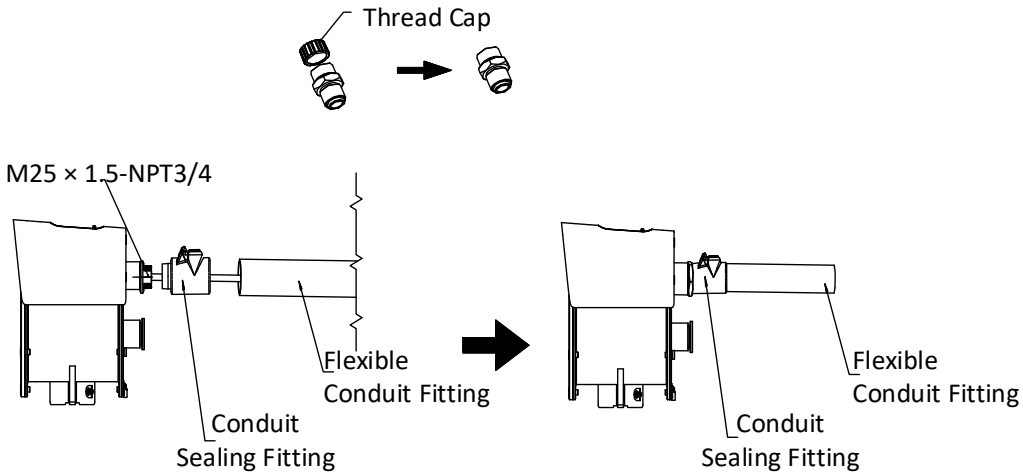


Figure 3-11 Thread the Cable through the Conduit

4. Secure the adapter to the back cover with the wrench.

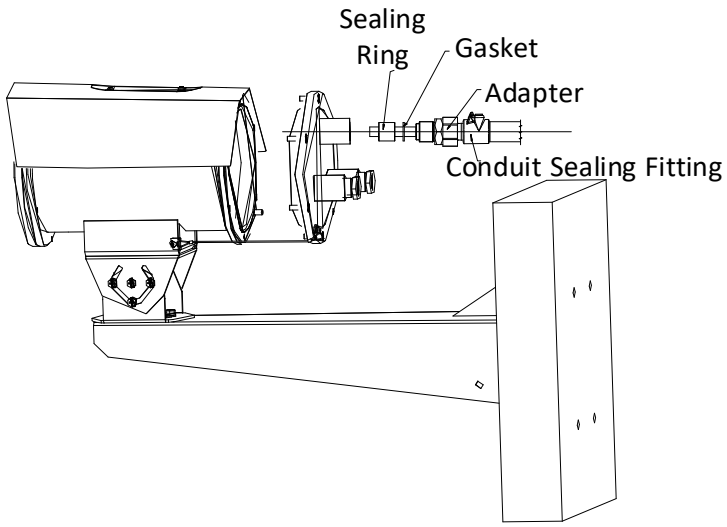


Figure 3-12 Secure Adapter to the Back Cover

5. Connect the cables to the corresponding terminal blocks and fasten the gland nut.

6. Install the back cover to the camera with the screws.

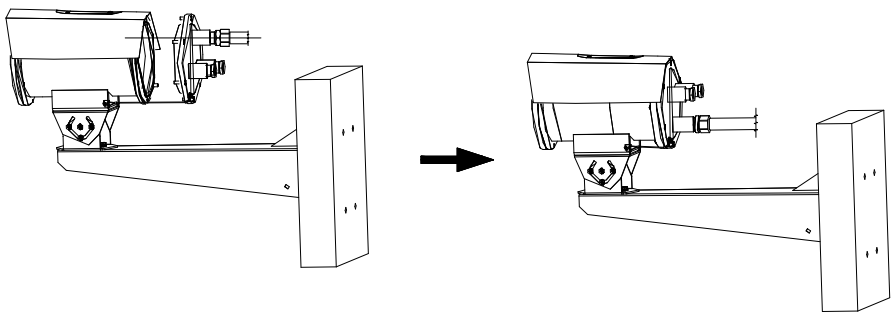


Figure 3-13 Install the Back Cover

Note:

- The flexible conduit shall then connect to a junction box use in hazardous locations. The cable needs to be entirely protected within hazardous locations for Class I, Zone 1.
- The conduit sealing fitting and flexible connection fitting should be UL and c-UL Listed for the same Class, Group and Division or equivalent Zone as marked on this manufacturer's nameplate.
- An explosionproof conduit seal shall be applied by the installer or user of the equipment according to the National Electrical Code® or the equivalent in Canada.

7. Route the camera cables.

Note:

The cables should be routed according to the local regulations and requirements.

4 Activate and Access Network Camera

Scan the QR code to get *Activate and Access Network Camera*. Note that mobile data charges may apply if Wi-Fi is unavailable.


See Far, Go Further