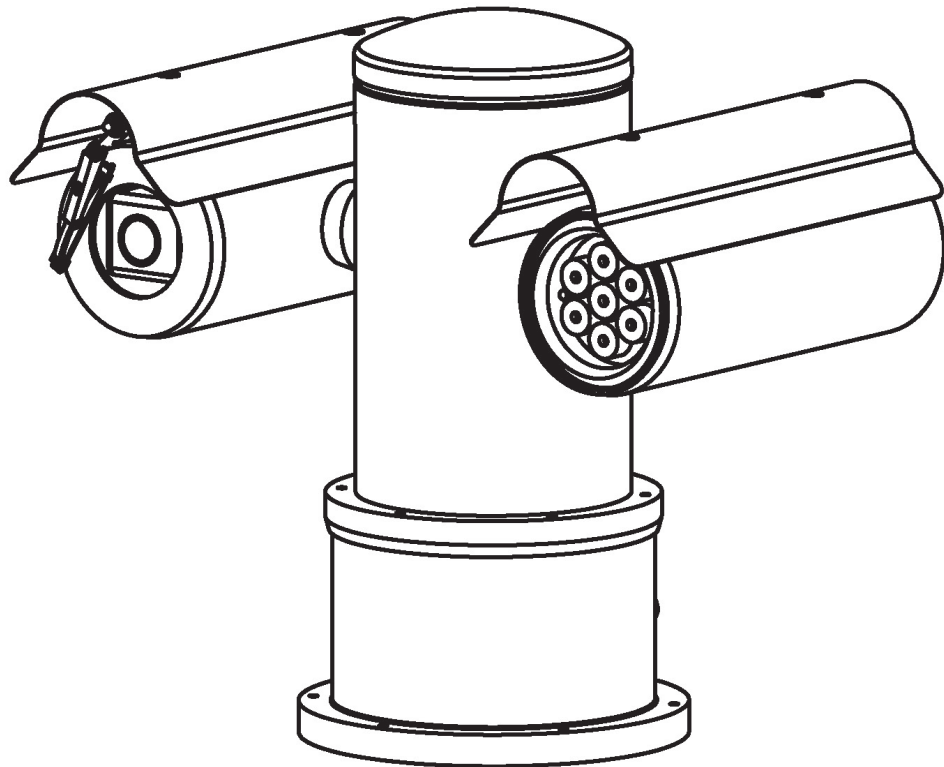



YHPTZ41 Series


Explosion proof Integrated Camera Set



IP Code: IP 68 (1.2m/45min)

Ex Marking:  II2G Ex db op is IIC T6 Gb (for type YHPTZ41)
or Ex db IIC T6 Gb (for type YPTZ41-1)

 II2D Ex tb IIIC T80°C Db
Ex tb op pr IIIC T95°C Db (optical fiber version)

Certificate number:  0470 Presafe 14 ATEX 4570X

EAT•N

Powering Business Worldwide

Copyright Statement

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Cooper Yuhua remains the right to modify the content and technical specifications of the product in this Instruction Manual without any form of notification, in order to provide the newest and most advanced product. The end users can get the latest product information on Yuhua's website: <http://www.cyh.com.cn>.

Trademark statement

This is the trademark of Cooper Yuhua (Changzhou) Electric Equipment Manufacturing Co., Ltd., all right reserved. The other trademark and trademark right appeared in this Instruction Manual belongs to its legal holder.

Quality Guarantee

For YHPTZ41 explosion-proof integrated camera set, we provide free maintain service in the guarantee period but we will ask the user to pay for the cost of labor and component in the follow conditions:

- Damage caused by improper operation that against the Instruction Manual.
- Damage caused by unauthorized disassembly.
- Thunder or other force majeure natural disasters.

If any other contracts between clients and us exist, we will follow the promise or regulation strictly.

Security Assurance

Operation of this product fulfills the following two requirements:

- No adverse interference in operation;
- The operation of this product can not be interfered by external factors even adverse interference.

Notice

- The user shall not disassemble this product optionally, such as remove the top cover or bolts may cause leakage of water or electricity. Please operate the product according to the requirements in this Instruction Manual;
- Ensure this product is always used in environment with atmosphere pressure, ambient temperature and relative humidity specified in Chapter 1.6;
- To be sure the power supply comply with the requirement indicated in the nameplate;
- The internal and external grounding shall be reliable;
- Ensure the installation is firm and reliable, to avoid unexpected damage of the camera;
- Protect the flame-proof joints from stumble and crack in installation, operation and maintenance.

Thank you for selecting Cooper Yuhua product!

Please read this Instruction Manual carefully before Installation, operation and maintenance of this product and follow the manual. Please keep this manual properly.

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Safety Requirement

Please read this Instruction Manual carefully before installation and operation of this product.

1. Safety cautions in installation

- Cut off the power supply before any maintenance or repair of the product.
- Avoid opening of this product in environment where oil smoke, heavy dust, high temperature or dewing may exist. These will cause the decrease of the image definition.
- Connect the cables according to the requirement indicated in the Instruction Manual, or fault may happen.
- Protect the flame proof joint in maintenance; avoid any metal fragment or other substances get access in the internal chamber.
- No disassembly or modification allowed.

2. Construction Safety

- The protective regulations on construction spot shall be followed strictly.
- Measurement shall be carried out immediately when any security risks found to eliminate the risks, stop construction if necessary.
- All kinds of safety facilities shall be inspected, calibrated or repaired in the event of severe weather.
- The ice, fog, rain and snow shall be removed before opening.
- Alert area shall be set and a person shall protect the area when protective casing and other safety facilities are constructed or dismantled.
- Work high above the ground may require in installation of this product, the operating personnel shall be qualified.

3. Power supply requirements

- Local electrical safety standard shall be followed in installation and service of this product.
- Convenient de-energizing device shall be adopted for immergence cutting off.
- Check if the power supply is suitable for operation before start.
- Protect the power cable from trample or compressing, especially for the plug, socket and joint out from devices.
- Explosion-proof measurement is necessary for Ex products.

4. Service condition requirements

- Please do not focus the camera to hard light (such as lamp or sunlight), which will cause too bright of the image, it will not malfunction but it will affect the operational life of the CCD (or CMOS).
- Transport, operate and store this product in applicable temperature and humidity range. Do not locate it in wet, overheated (over +60°C), extreme cold (less than -30°C) environment or area with strong electromagnetic radiation or power lighting conditions.
- The product shall be protected from any entry of water or other conductive fluid, which may damage the internal electrical element.
- Avoid overheated, the product shall be well ventilated.
- Avoid damage caused by compressing or violent vibration in transmission, storage or operation.
- The product shall be well packaged as new product or equivalent in transmission.
- We suggest using this product with Surge Protection Devices.
- Internal and external grounding shall be reliable.

5. Operation & maintenance requirements

- Do not dismantle this product; there is no user serviceable part inside.

- Do not touch the CCD (or COMS) directly; a proper way is to blow away the dust with a blower on the lens. If it is necessary to clean it, use soft cloth with a little alcohol to wipe the lens gently. Replace the cover when not use to protect the CCD (or COMS).
- Soft, dry cloth can be used for camera body cleaning. For dirt not easy to clean, some neutral detergent can be used, clear the dirt away then dry the camera body. Corrosive agent, abrasive cleaner can not be used for camera cleaning; they may damage the surface or even degree the service performance.
- This product shall be installed and repaired by authorized personnel, please do not dismantle or repair it by yourself. Only manufacturer indicated components / accessories can be used when replacement is necessary.
- The CCD (or COMS) may damage by laser beam, it's better to avoid the camera suffering radiation of laser beam.

6. Environmental protection

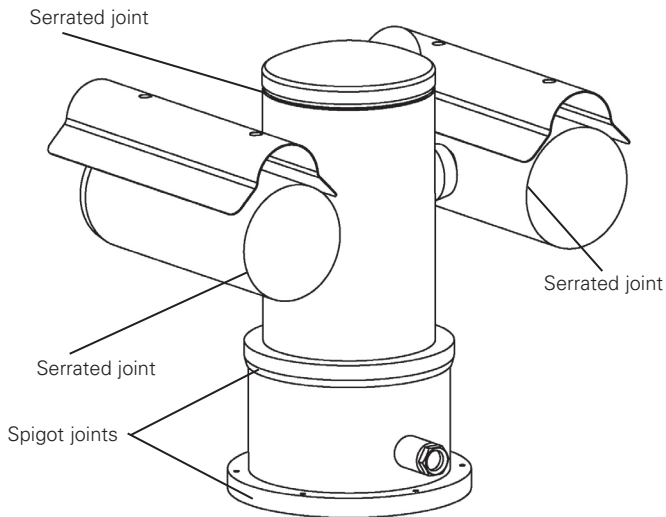
- For components of the products made by our company may pollute the environment, such as PCB, electrical elements, plastic and lubricant, collection and control measurement shall be taken in maintenance and scrapping of the products. These pollution sources shall be delivered to the government for further treatment, no casually discard allowed, avoid any adversative effect to the environment.

Special announcement

- Some pictures in this manual is a diagram for reference only, if the picture does not match with the real product, the real product is the standard.
- Cooper Yuhua remains the right to modify the content and technical specifications of the product in this Instruction Manual without any form of notification when the product updates, there may exist little differences after updating.
- You can get the latest software and description document by consulting the customer service department.
- Any problem in operation of this product, please contact the distributor or customer service department.
- We always try to make this instruction manual as perfect as we can, but there still may be some de-tolerance between the real data and the data we provide, if you have any questions or disputes, please refer to our company for finally explanation.
- The operator or user shall be responsible for damages or losses caused by misuse or operations do not comply with this manual.

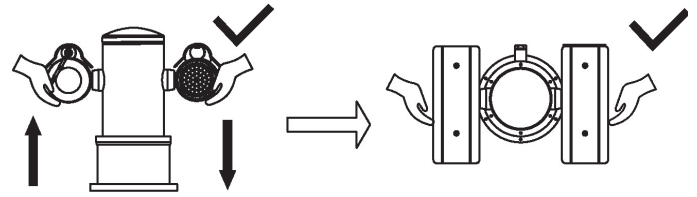
Ex structure instruction

- The enclosure is able to subjected to static pressure test (1.5MPa for at least 10s) specified in GB3836.2/ IEC60079-1:2014/ EN60079-1:2014, no leakage or deformation allowed after test.
- The maximum surface temperature will no more than 80°C in normal operation.
- Toughed glass is adopted in observation port, it has passed the impact and thermal shock test.
- IP68 (1.2m/45min);
- Stuffing box type cable entries are adopted in this product, the reserved length of the cable is no less than 2 meters.

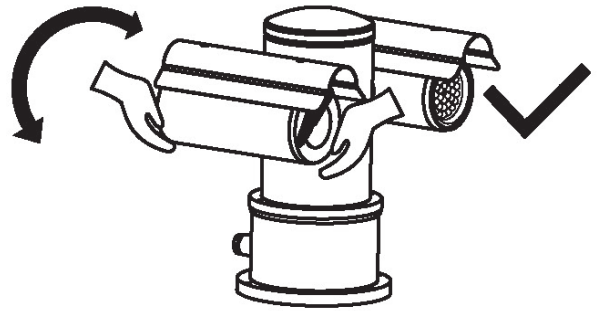


⚠ Correct method to move YHPTZ41

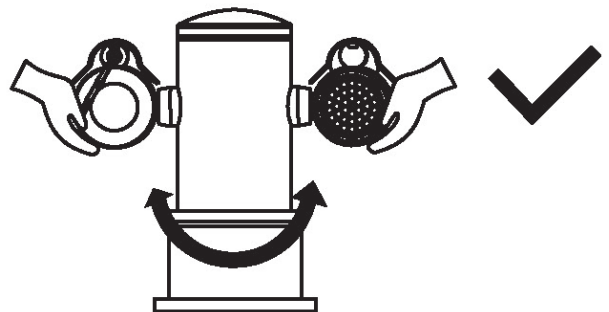
When the product is not energized



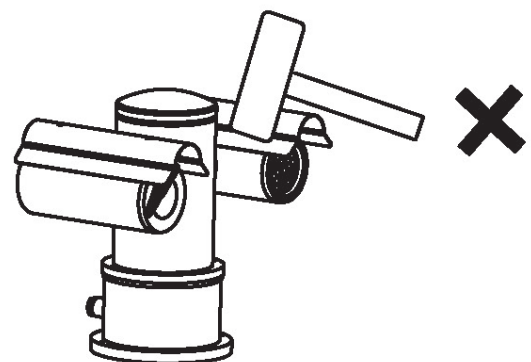
Select the best position to move the product



Vertical cylinder part free rotation

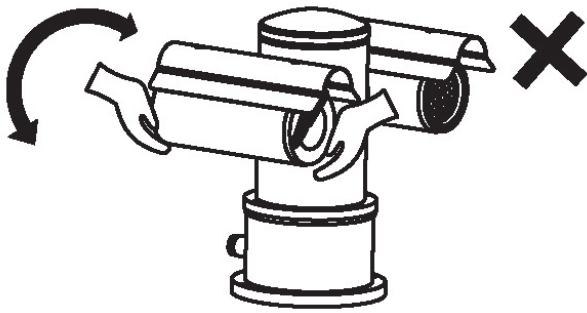


Horizontal cylinder part free rotation

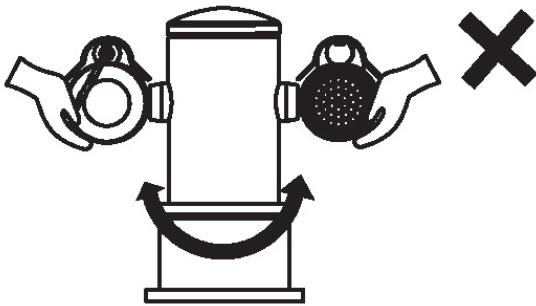


No knocking down

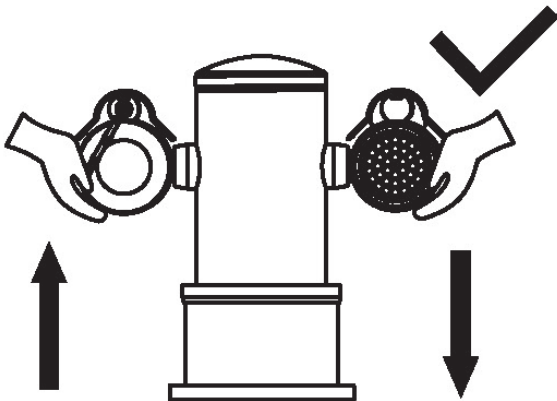
When the product is energized



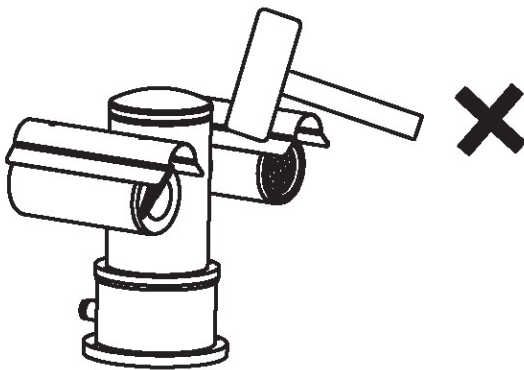
Vertical cylinder part can not rotate freely



Horizontal cylinder part can not rotate freely



The product can not be moved freely



No knocking down

1.0 General

YHPTZ41 series explosion-proof integrated camera set is manufactured according to GB3836.1-2010 Explosive atmospheres-Part 1 Equipment- General requirements, GB3836.2-2010 Explosive atmospheres - Part 2: Equipment protection by flameproof enclosures "d", GB12476.1-2013 Electrical apparatus for use in the presence of combustible dust-Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation-Specification for apparatus, EN60079-0:2012/A11:2013 Electrical apparatus for explosive atmosphere Part 0: General requirements, EN60079-1:2014 Electrical apparatus for explosive atmosphere Part 1: Flameproof enclosure 'd', EN60079-31:2014 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "tb", EN 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation, IEC60079-0:2012 Explosive atmospheres - Part 0: Equipment - General requirements, IEC60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d", IEC60079-31:2013 Explosive atmospheres -Part 31: Equipment dust ignition protection by enclosure "t", IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation. It is used in the places, where is classified as Zone 1 and Zone 2, contained Group IIA, Group IIB and Group IIC gases, temperature group T1~T6, Zone 21 and Zone 22, contained the combustible dust atmosphere or the mixture circumstance with the explosive gas atmospheres and the combustible dust atmospheres. The product with the characteristics of small volume, light weight, easy installation and etc.. It can be used in petroleum, chemical, jetty, port, mine, spaceflight, war industry and foodstuff process area and etc.

All associate technical document, drawings and samples of YHPTZ41 series explosion-proof integrated camera are tested and certified by Presafe, ATEX certification number: **CE** 0470 Presafe 14 ATEX 4570X

Specific Conditions of Use

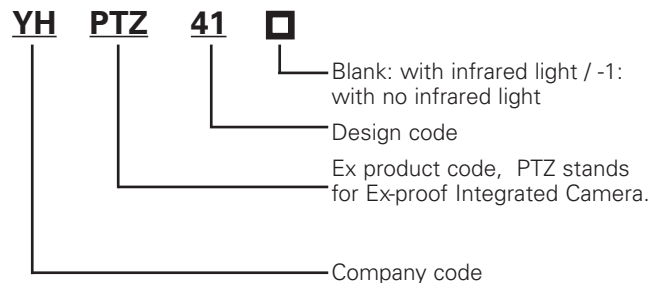
- Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 3 and 4 of EN 60079-1.
- The protect the cement joint, the glass clamp ring ie not allowed to be opened from the infrared light cylinder.

Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9.

1.1 Type and model

Explanation



Model: YHPTZ41, YHPTZ41-1

IP Code: IP68 (1.2m/45min)

Ex marking: **Ex**II2G Ex db op is II C T6 Gb (for type YHPTZ41)

or Ex db IIC T6 Gb (for type YPTZ41-1)

ExII2D Ex tb IIIC T80°C Db

1.2 Features

YHPTZ41 series explosion-proof integrated camera set integrates high-performance color camera, omni bearing variable speed PTZ, multifunction decoder controller and infrared light source, and also common communication protocols and speed. It will give you clear and bright images even in low-light conditions, it plays an important role in security system.

YHPTZ41 can work at wide voltage range and its self-adaptation function will satisfy most brands of the video camera. It has power supply, signal and video triple protection against lighting, safe and reliable.

YHPTZ41 is designed as a integrated unit, it can continuously rotate 360° horizontally and rotate to ±90° vertically with no external cable between the PTZ and the camera. A sun shade, rain wiper and heating devices are equipped with the product.

1.3 Scope

This product is applicable for Zone 1 and Zone 2 hazardous areas that explosive mixture of group IIA, IIB, IIC, T1~T4 gases, vapor and air may exists, Zone 21 and Zone 22 hazardous areas that explosive dust may exist and hazardous areas that both the explosive dust and gas mentioned above exist.

1.4 Mechanical data

Material:	stainless steel 304 or 316L
Horizontal rotating range: CC	0~360°continues
Vertical rotating range:	- 90 ~ + 90°
Horizontal rotating speed:	0.1° ~ 40° /S Smooth variable speed rotation
Vertical rotating speed:	0.1° ~ 40° /S Smooth variable speed rotation
Preset position speed:	60° /S
Preset position number(s):	128
Preset position precision:	≤0.1 °
Lighting Protection:	Built-in lighting protection device
Automatic heating:	Starts below -10°C
Infrared light range:	Approximately 100 meters
Unit weight:	35kg (net weight)
Package weight:	38kg (gross weight)
Installation method:	Vertical

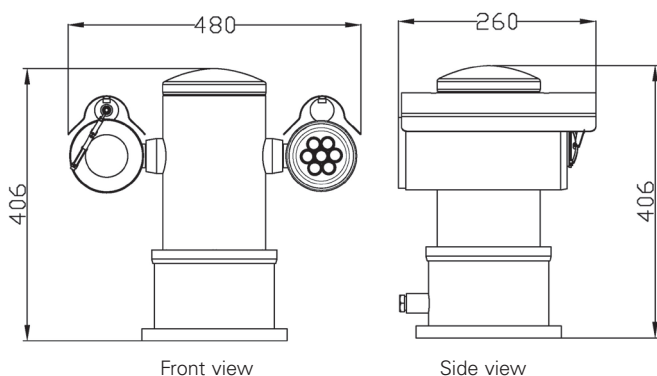


Figure 1.4.1.1 Dimensions

1.5 Electrical data

Input voltage:	100~240VAC
Frequency:	50~60Hz
Maximum current:	≤1A
Consumption:	≤100W
Electrical connection:	Cable of 3 meters
PTZ control & communication method:	RS-485
PTZ control & communication speed:	2400, 4800, 9600, 19200bps (default: 4800bps)
PTZ control & communication protocol:	PELCO-P, PELCO-D, VICON (default: PELCO-D)
Address code:	0~255(default: 1)

1.6 Service condition

Atmospheric pressure	80~110KPa
Ambient temperature	-40°C~+60°C
Relative humidity	≤95%RH(+25°C)

1.7 Electrical safeties (standard atmospheric pressure)

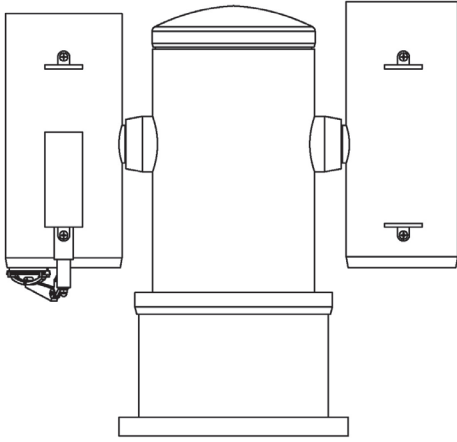
Insulation resistor: at voltage of DC500V, the resistor between the power in terminals and the enclosure is no less than 100 MΩ;

Voltage withstand test: adopt voltage of 1500V, 50Hz at the power in terminals and the enclosure for 1 minute, no break down or arc.

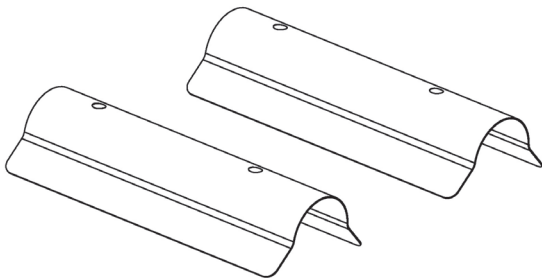
2.0 Installation & debugging

2.1 Cautions

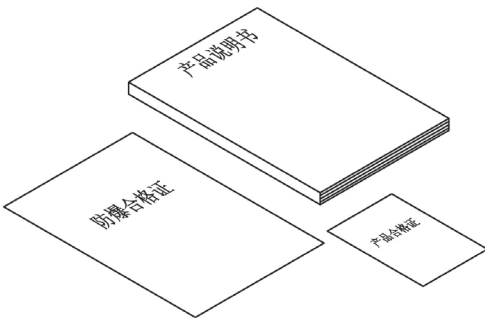
Check the component in the package before installation



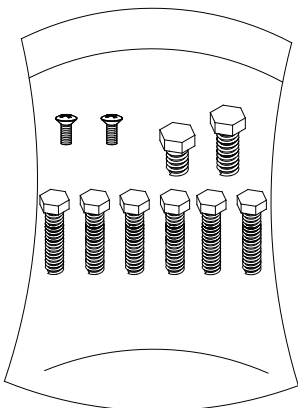
YHPTZ41 mainframe 1 set



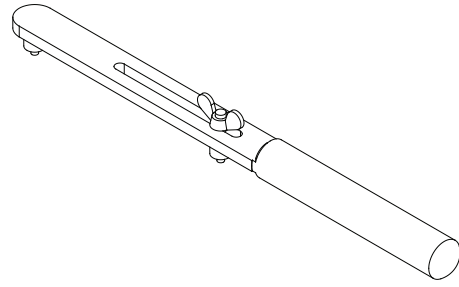
Sun shade 2pcs



Certificate of conformity, Qualification certificate and Instruction Manual



Cross recess oval head screws: M5X8 4pcs
Hexagon bolts: M8X30 6pcs
Brass screws: 1/4"X6 1pc
Brass screws: 1/4"X12 1pc



Special adjustable wrench 1pcs

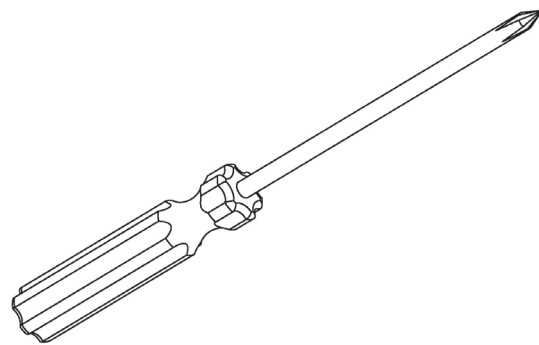


Drying agent: 1 package

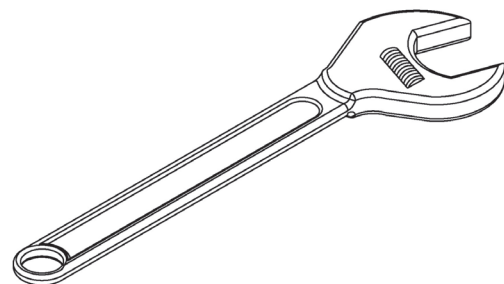


Aluminum tube-loaded Teco521 grease: 1pc

Other tools required:



Cross screw driver: 6X150 1pc



Outer hexagon adjustable wrench: 300X36 1pc

Cautions before installation and in service

Check the following items before installation:

- Check if there is a certificate of conformity number
- Check if the application area indicated in the Ex making is suitable for the intend location
- Check if there is any crack or other defect that may damage the Ex performance
- Check if there are internal and external grounding

Cautions in service:

- It's not suggested for users to dismantle this product at will, please follow the Instruction.
- The power must comply with requirements specified in 5.
- Please use this product in conditions (atmosphere pressure, temperature and humidity) specified in chapter 1.6.
- Since Ex product is very special, debugging with power before installation if available.
- DO NOT OPEN WHEN ENERGIZED!**
- The yield stress of the fastener elements of each part of the flame proof enclosure must be at least equal to 700 N/mm².

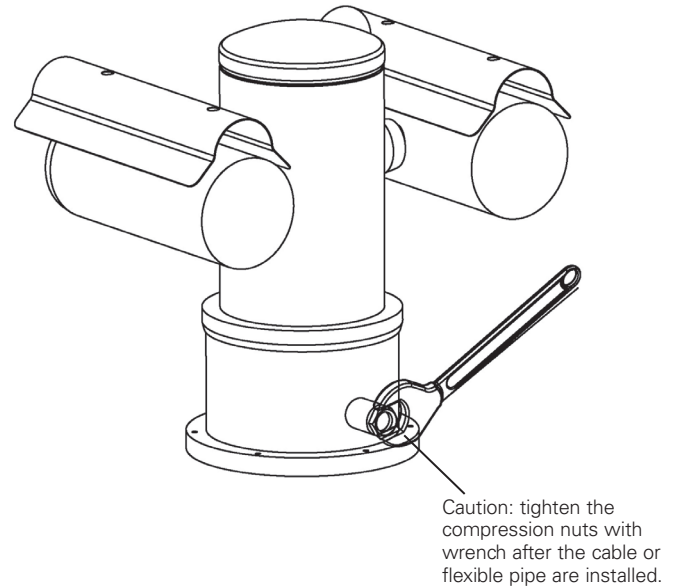


Figure 2.2.1.2 Tighten the compression nuts

2.2 Assembly

2.2.1 Component assembling

Fixing bolts of the sun shade: Cross recess oval head screws: 4-M5X8

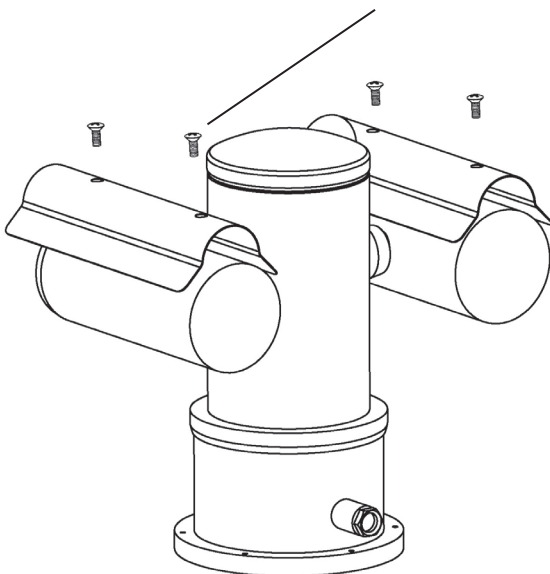
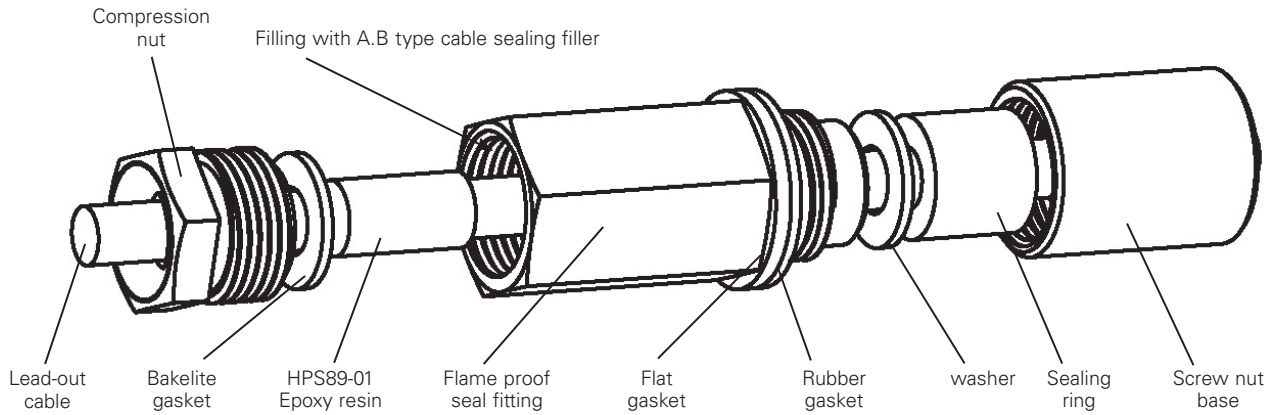


Figure 2.2.1.1 installation of sun shade

2.2.2 Cable treatment

- Cable treatment on finished products
- Please pay attention to the protection of the cable when using



2.3 Usage

2.3.1 System connection

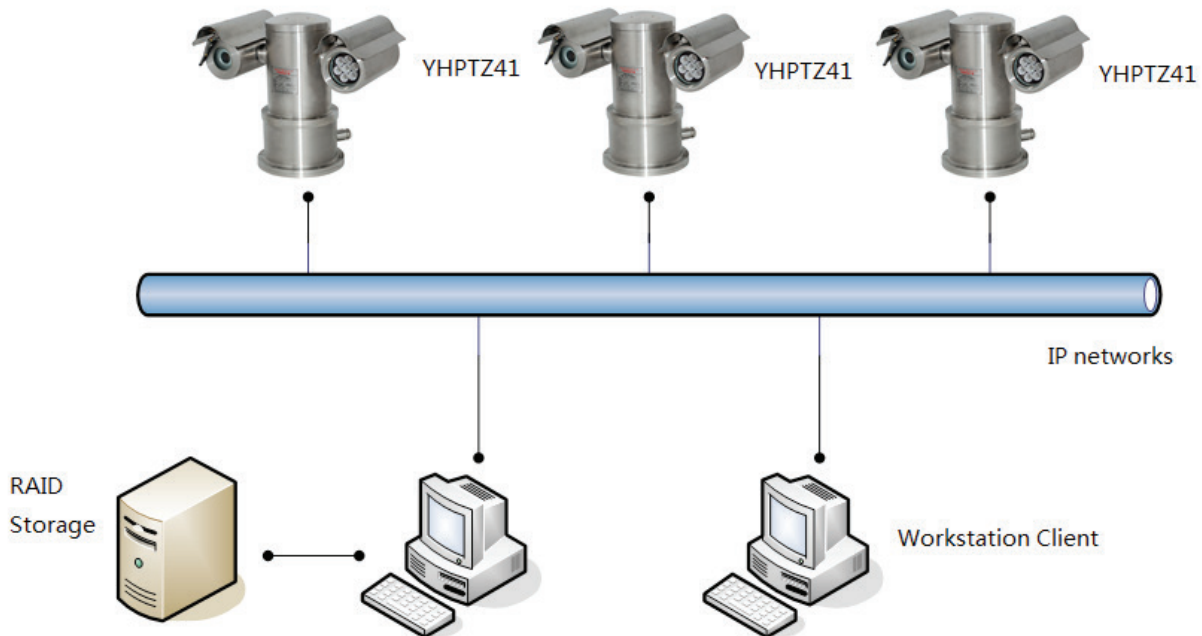


Figure 2.3.1.1 Connection diagram of the system

Digital video signal is transmitted by wired or wireless IP networks. The video can be monitored and recorded at any time, no matter in LAN or WAN, such as internet.

2.3.2 Cable indication

A composite cable was equipped with finished product of YHPTZ41, it leads out from the side of the base-frame and its length is over 2 meters. The user shall lead the composite cable into the junction box and connected the system bus before service.

Table 2.3.2.1 Cable indication

Product	Composite cable			UTP5E							
	Power cable			Data transmission							
Function	Live wire	Zero line	Earth line	Orange & white	orange	green & white	blue	blue & white	green	brown & white	brown
Color	brown	Grey	Yellow /green	Orange & white	orange	green & white	blue	blue & white	green	brown & white	brown

2.3.3 Parameter setting

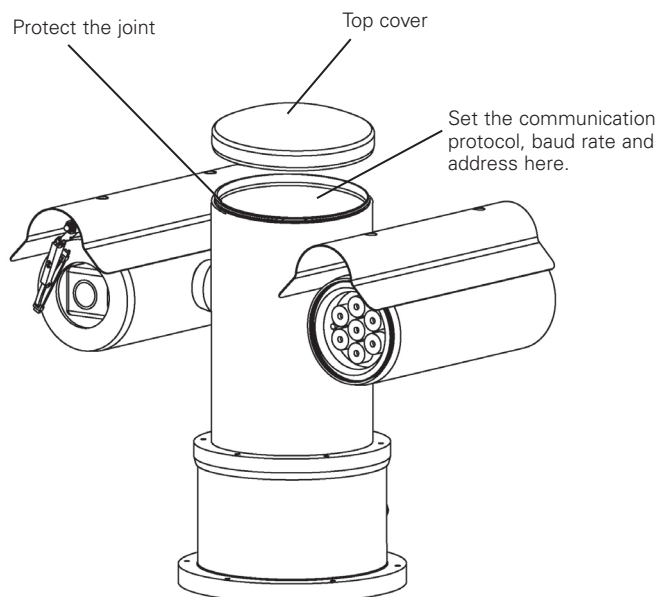


Figure 2.3.3.1. Parameter setting

Parameter setting method: use the special wrench to open the top cover, set the communication protocol, baud rate and address by using SW1, SW3, SW4, SW5, SW6 on the PCB.

Table 2.3.3.1. Definitions of SW1

SW1	Definitions
DIP 1~3	Model setting of RS-232 method controlled camera (see table 2.3.3.2)
DIP 5	PELCO_P/PELCO_D Protocol setting (see table 2.3.3.3)
DIP 6~7	Baud rate setting(see table 2.3.3.4)
DIP 8	Remote control switch(ON/OFF)

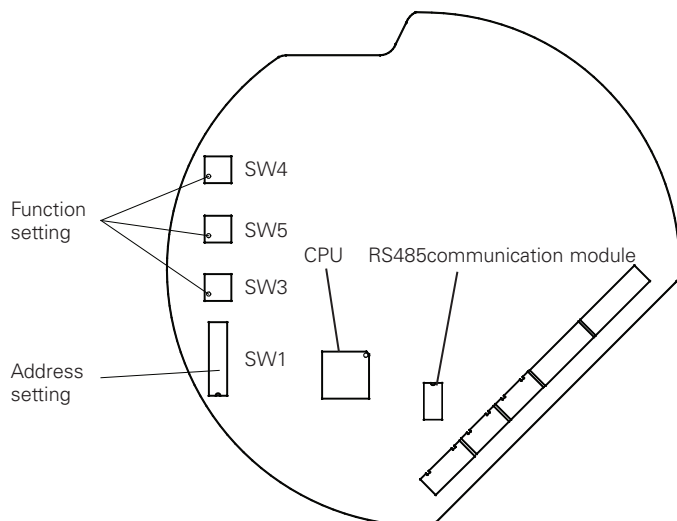


Figure 2.3.3.2 the main function switch arrangement on the panel

2.3.3.1 Settings of SW1

Confirm the communication protocol and baud rate adopted by the controller, then modify the settings according to the table as below, at last restart or reboot remotely.



Figure 2.3.3.3 function switch SW1

- Protocol setting

PELCO-P, PELCO-D, VICON protocols can be used. PELCO-P and PELCO-D protocol can be set directly by SW1. For VICON protocol, the following instructions shall be followed: turn on the 8th switch, which means start remote control, restart or reboot remotely after setting; then adjust the baud rate, protocol and address according to the indication; use 95# preset bit to enter <control> menu and <RS485>sub menu, set the protocol to VICON protocol.

Table 2.3.3.3. Protocol setting

Protocol	DIP 5	DIP 8
PELCO_P	ON	OFF
PELCO_D	OFF	OFF
VICON	—	ON

- Baud rate setting

Table 2.3.3.4. Baud rate setting

Baud rate	DIP 6	DIP 7
2400 bps	OFF	OFF
4800 bps	ON	OFF
9600 bps	OFF	ON
19200 bps	ON	ON

2.3.3.2 Address setting (SW3, SW4, SW5)

Decimal encoding scheme is adopted in this product: hundred's digit(SW4), ten's digit(SW5) and unit's digit(SW3); address range:0~255. The address is usually set on finished products, if adjustment required, modify the settings then restart or reboot the unit remotely to make the modification validate.

Eg. If the address of the explosion-proof integrated camera is 64: set Sw4 at 0, SW5 at 6, SW3 at 4.

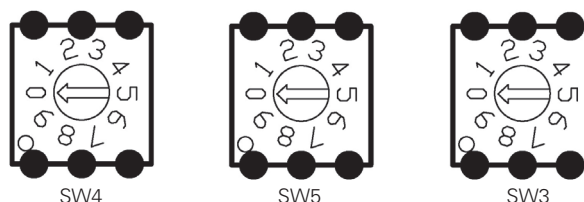


Figure 2.3.3.4 hundred's digit(SW4), ten's digit(SW5) and unit's digit(SW3)

2.3.4 Infrared light setting

This product can provide distinct images in environment with illuminance less than 0.5LUX, the user can select the illuminance of the infrared light according to the environment.

This operation can be achieved by S2 in the infrared light cylinder.

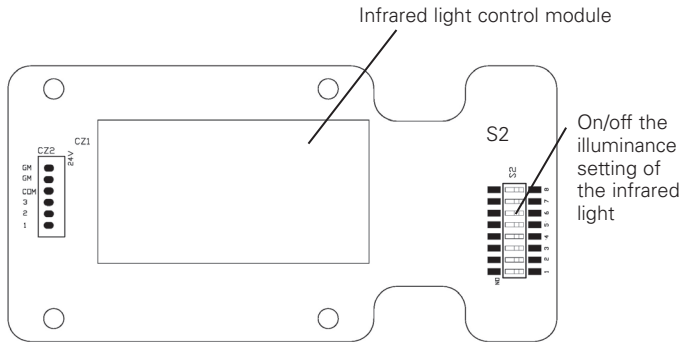


Figure 2.3.4.1. Connection of the camera and control method setting



Figure 2. Figure 2.3.5.1 Infrared light control switch

The switch ON and OFF of every digit in the infrared light control switch is in correspondence with power on and power off of the corresponding illuminance switch. The infrared light starts to work when the environment illuminance is lower than the set value of the switch; it will stop work when the environment illuminance is better than the set value.

The default setting is the 3rd digit is set on. Only one digit in S2 can be set on and the others must be off. Restart or remotely reboot is required for the changed setting.

Table 3.2.5.2. Definition of S2

DIP	START-UP (LUX)	SHUT-DOWN (LUX)
1	0.5	4
2	1.5	8
3	5 (Default)	20
4	10	50
5	15	75
6	20	100
7	OFF	OFF
8	OFF	OFF

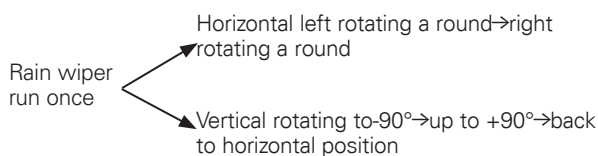
2.3.5 Inspection and examination before service

Check if the power supply, AB control cable and video cable are well connected and if the settings on the switch are correct.

2.3.6 Service status and inspection in service

YHPTZ41 will start self-checking automatically after power on.

- Normal self-checking procedures:



2.3.7 Screen OSD display and menu setting

YHPTZ41 possesses a perfect Chinese and English menu system: via 95# preset position to call out the menu when the product is stand by, the **up**, **down**, **left** and **right** button on the PTZ, also the **open** and **close** button on the iris become control keys. At this time, command of the other keys are invalid, all settings in the menu can be saved when power cut off suddenly.

2.3.8 Camera setting, IE browser and client software setting

See document provided by the manufacturer of the camera.

2.4 Support preparation before installation of YHPTZ41

2.4.1 Support type installation

Select suitable position for installation hole, adopt expansion anchors to fix the support. The Ex junction box shall be installed in a place convenient for installation and maintenance. Laying down the cable from the slot or tray to the junction box.

See 2.4.1.2 for the support specifications.

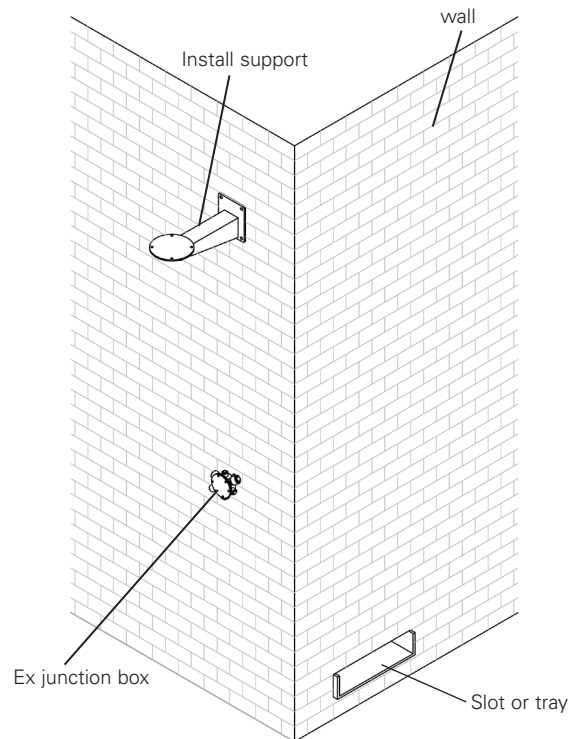
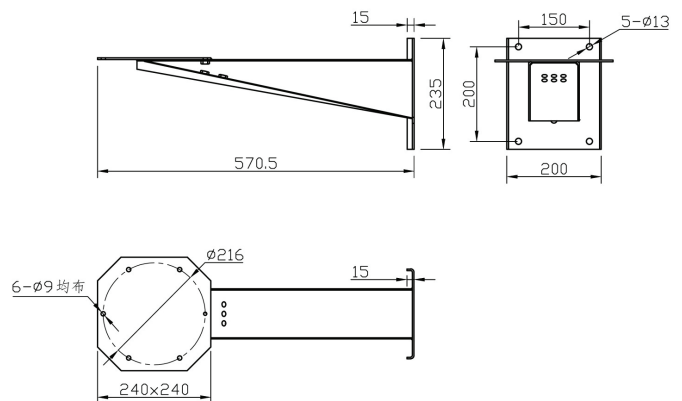


Figure 2.4.1.1 Support installation and wire connection



2.5 Installation and fastening

Since Ex product is very special, we strongly suggest that the user to install this product after debugging and adjusting and familiar with the performance indoor.

2.5.1 Support type installation

The installation hole see 2.4.1.2, insert the reserved cable into the hole on the support. The cable shall be protected by Ex flexible pipe when connect to junction box(armored cable is available). The cable from junction box to control room shall be protected by metal tube or adopt armored cable directly.

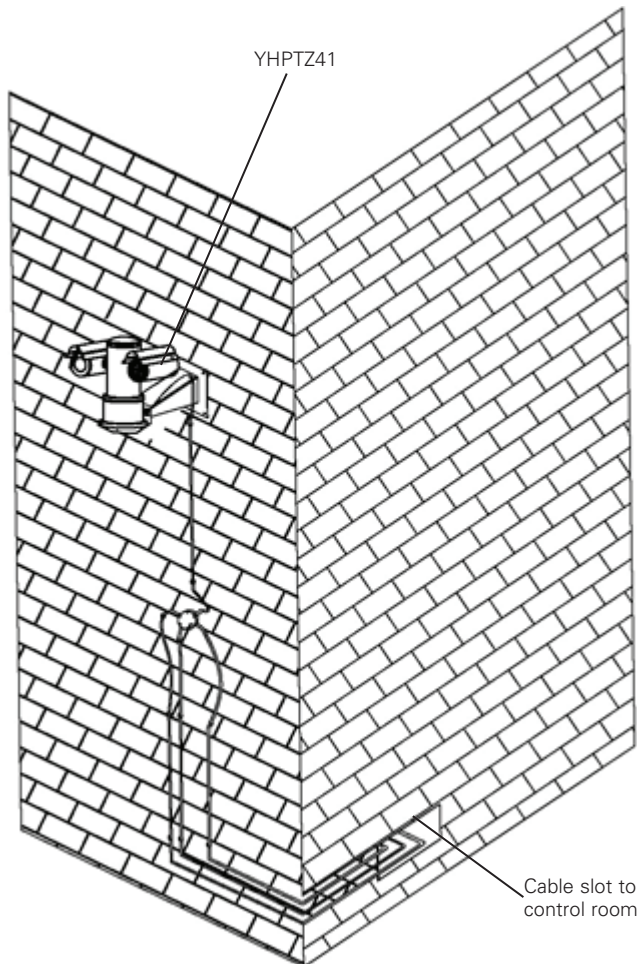


Figure 2.5.1.1 YHPTZ41(Ex) support installation

2.6 Protection of flame-proof joint

Protect the flame proof joint in installation, operation, maintenance of this product, no knock or crack allowed.

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 2 of EN/IEC 60079-1.

2.7 Grounding

Internal and external grounding shall be well connected and reliable.

2.8 Reserved cable

The length of cable reserved on finished camera is no less than two meters, free end of the cable shall be located in associate Ex terminal boxes or devices that suitable for the hazardous area.

2.9 Camera Time settings

During product use, the camera needs to reset the time after each power outage restart.

3.0 Troubleshooting

phenomenon	analysis	solution
No image	Power cut off	Check the power supply
	Network cable malfunction	Check the network cable
Image intermittence	Network cable malfunction	Check the network cable
	Network cable not well connected	Check the network cable
	Communication distance too long caused signal attenuation	Add repeaters to extend the communication distance
Abnormal control of PTZ	Signal reflection	Short circuit the 120 wire jumper (or switch) of the farthest camera in the bus, add a resistor of 120Ω to eliminate the reflection
		incorrect address
	Incorrect protocol	Set according to manual
	Incorrect baud rate	
Uncontrolled camera	Network cable malfunction	Check the network cable

4.0 Transportation and storage

4.1 Cautions in hoisting and transportation

Packaged product can be delivered in all modes of transportation but without direct rain or snow.

4.2 Storage condition, duration and cautions

This product can be stored for one year in environment of temperature range: 0°C~+40°C and humidity no more than 90%.

5.0 Camera specifications

Camera Size Range:≤142*78*81(Length*Width*Height)

Rated voltage:12V±10%

Dissipation power:≤10W

Annex 1: Table of poisonous and harmful substances or elements

Component	Poisonous and harmful substances or elements					
	Lead (Pb)	Mercury (Hg)	cadmium (Cd)	chromium VI (Cr6+)	Polybromide (PPB)	Polybrominated diphenyl ethers (PBDE)
Stainless steel 304	○	○	○	○	○	○
Casting component	○	○	○	○	○	○
PCB	○	○	○	○	○	○
Movement	○	○	○	○	○	○
Connection cable	○	○	○	○	○	○
Power supply (if applicable)	○	○	○	○	○	○
Support (if applicable)	○	○	○	○	○	○
Accessories	○	○	○	○	○	○

Remark:

1. Symbol ○ means the content of the poisonous, harmful substances or elements in the component (homogeneous material) is lower than the limit specified in the standard;
2. Symbol × means the content of the poisonous, harmful substances or elements in the component (some certain homogeneous material) is more than the limit specified in the standard SJ/T11363-2006. Leakage or mutation of this poisonous, harmful substances or elements will not happen in the environmental life and will not harm the user's health or properties. Treatment of this poisonous, harmful substances or elements can not carried out by user selves, please deliver it to the appointed department according to the local laws or regulation.

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