



YTU-7001EX

Explosion-Proof Fixed Camera

Statement

- ◆ The instructions may contain inaccuracies, inconsistencies in the operation of the product function, or typographical errors.
- ◆ The company continues to adopt new technology, product parameters change without notice.
- ◆ The instructions only provide guidance for the customer guidance, does not guarantee and exactly the same, the actual product should prevail in kind.
- ◆ Instructions for a variety of models for reference, the specific operation of each product does not enumerate, please user control operation according to the actual product.
- ◆ This user manual belongs to all companies, without our permission, no organization or individual may copied, reproduced in whole or in part of them.

Safety Notice

- Please read this instruction manual carefully before use and keep it for future use.
- Please use a dry soft cloth to clean the equipment, such as dirt is difficult to remove may be appropriate to add a small amount of neutral detergent gently wipe, and finally wipe the remainder of the detergent, wipe the power supply before disconnecting.
- Transport, storage and installation process, should avoid heavy pressure, severe vibration or sleep, otherwise it will cause damage to equipment.
- Equipment in the installation and use of the process must strictly

comply with the electrical safety standards.

- The personnel of the installation and maintenance equipment shall be carried out by qualified service technician or system installer.
- Avoid installing the equipment in damp, dusty, extremely hot, cold, strong electromagnetic radiation and other places.
- Customers are advised not to disassemble the shell and screws themselves. We are not responsible for any problems caused by unauthorized modifications or repairs.
- Do not aim the camera at light objects to avoid poor image performance.
- Long-term high-speed operation of the device may lead to conductive slip ring, timing belt aging, will affect the equipment life.

Content

1 Product Introduction.....	5
1.1 Warning	5
1.2 Notice.....	6
1.3 Introduction to technical parameters.....	7
1.4 Appearance introduction	8
1.5 Explosion-proof flexible pipe	9
2 Installation	11
2.1 Installation of basic requirements and accessories to confirm.....	11
2.2 Basic installation tool.....	12
2.3 Installation space and installation strength	12
3 Installation steps.....	13
3.1 Installation of sun shade	13
3.2 Installation of base and upholder.....	13
3.3 External wiring harness of camera.....	15
3.4 Operation instruction	15
4 Fault and troubleshooting	16

1 Product Introduction

The window of this camera adopts toughened float glass with double plating waterproof membrane. It is with the good performance of shock resistance, screening and heat dissipation. The camera has the feature of rational construction, concise appearance and good tightness, meanwhile it also with the function of automatic air cooling heating and wiper. It could be widely used in the importance field such as petroleum, chemical industry, mine, military project, medicine, oil depot, steamship, RIG, petrol station, CNG, gas station, fireworks production, grain processing storage and ect.

1.1 Warning

- Please read the operational instruction carefully before install this equipment.
- To observe all of the warnings in this manual and equipment.
- Please cut off the power before cleaning. Please clean with wet cloth, strictly prohibit cleaning with liquid or spraying cleaner.
- The equipment should be provided with the category of power and voltage that specified in this manual. Please contact with this company or dealer if the power and voltage indeterminate in the installation place.
- Please protect the power line especially the flexible wire of plug and camera.
- Please install the arrester in order to prevent lightning stroke.
- Please don't allow the installed cable of the product too long to overload in order to prevent fire disaster or electric shock.
- Please don't install on the unstable upholder, otherwise to lead damage the person & machine.
- Strictly prohibit maintaining by oneself because of electric shock or

other dangerous that resulted in open or disconnect the shield. All of the maintaining should be contact to this company.

- Strictly prohibit replacing the parts by oneself, the unauthorized substitute could lead to dangerous. Please contact to the company if you need to replace the parts.
- The product is suitable for the explosive gas atmosphere except coal mine, so that do not install and use the camera in coal mine.

1.2 Notice

- Please prevent the great pressure, violent vibration and soaking during transportation, storage and installation, otherwise to damage the equipment.
- The equipment should be far away from the place that vibrates or exists the magnetic field interference.
- Please ensure to cut off the power to remove or reinstall the equipment if you hope to change the installed equipment.
- Please contact to the company if the equipment don't work properly. Strictly prohibit dismounting or modifying the shield in any way. The manufacture isn't responsible for it if the modification or maintenance that unauthorized to lead the problems.
- Please ensure the enclosure of camera with effective earthing in order to protect the equipment inside camera safety.

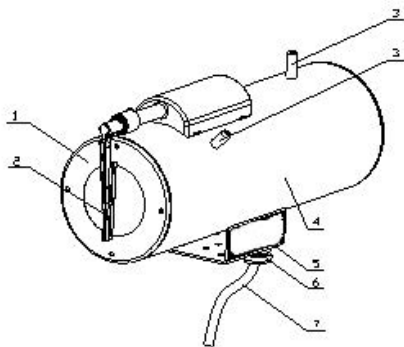
Default parameter

IP	192.168.1.108
Name	admin
Password	123456

1.3 Introduction to technical parameters

Function	Basic performance indicators
Power	AC24V±25% , 50/60Hz
Peak power	35W(include the heater)
Video compression format	H.265 / H.264
Compatible agreement	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Remote control	Support to use IE browser and client software to browse and control.
User	5 uses on line at the same time
Auxiliary switch	1 group
Wiper	The wiper components inside the shield with the power supply of DC12V
Fan	Inlay, power supply is DC12V
Air cooling heating system	Self-heating system was opened at $\leq 8^{\circ}\text{C} \pm 5^{\circ}\text{C}$, and closed at $\geq 20^{\circ}\text{C} \pm 5^{\circ}\text{C}$. Automatic air cooling system was opened at $\geq 37^{\circ}\text{C} \pm 5^{\circ}\text{C}$, and closed at $\leq 20^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
Installation method	Installed with motor PTZ, and also installed independently
Weight	8kg (include camera)
Overall dimension	Length*width*high: 430 mmX150mmX219mm
Window	1 ($\Phi 65\text{mm}$)

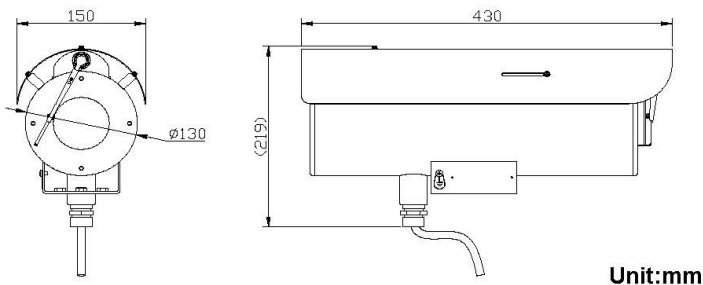
1.4 Appearance introduction



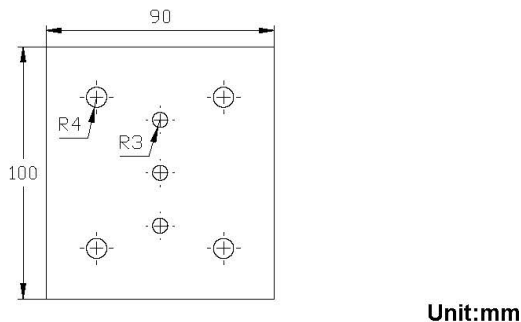
Note:

- | | |
|--------------------------------|--------------------------------|
| 1. Front cover of camera | 2. Wiper |
| 3. Permanent seat of sun shade | 4. External cylinder of camera |
| 5. Base | 6. Cable gland |
| | 7. Composite cable |

Overall dimension:

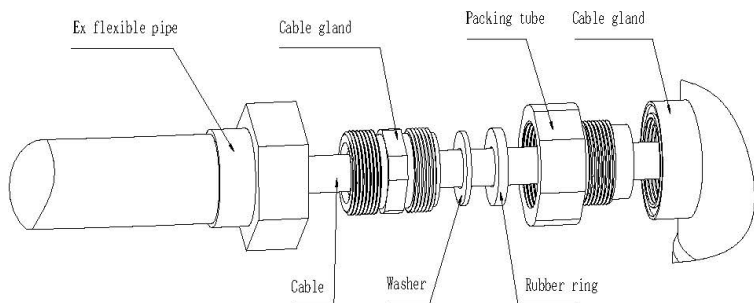


Base dimension:



1.5 Explosion-proof flexible pipe

The company suggest that the composite cable of the camera suit with the Ex flexible pipe. The internal diameter of Ex flexible pipe should be not less than 13mm and the thread engagement No. of joints between Ex flexible pipe and cable gland of camera must more than 5. Please see the following fig. about installation.



2 Installation

2.1 Installation of basic requirements and accessories to confirm

Installation site and environment to meet the technical parameters mentioned in the requirements, the installation staff should have been fully read and read the contents of this manual, with the appropriate system installation qualification and maintenance work qualification certificate.

Open the box to confirm the accessories information, the lack of accessories, please contact the supplier.

Name	Quantity	Re'k
User manual	1	
Sun shade	1	
Certificate	1	
Socket head wrench (5mm)	1	
Cross Recess Head Screw 3*8	3	To fixed the sun shade
Plain washer $\phi 3$	3	
Spring washer $\phi 3$	3	
Hexagon socket head cap screws 6*20	4	To fixed the camera
Plain washer $\phi 6$	4	
Spring washer $\phi 6$	4	

2.2 Basic installation tool

Commonly used engineering wiring and equipment installation tools, please install the equipment before the preparation is complete.

Name	Quantity	Remarks
13mm wrench	1	For mounting fixtures and mounting brackets
14mm sleeve	1	
Cross screwdriver(big)	1	For common construction
Cross screwdriver(small)	1	Used to disassemble the DIP cover to adjust the device communication parameters
Inside the hex wrench	1 set	Used for disassembly of pan / tilt pallet and shield connection
Word screwdriver (small)	1	Used to secure the wiring harness connection terminals
Wire strippers	1	Stripping

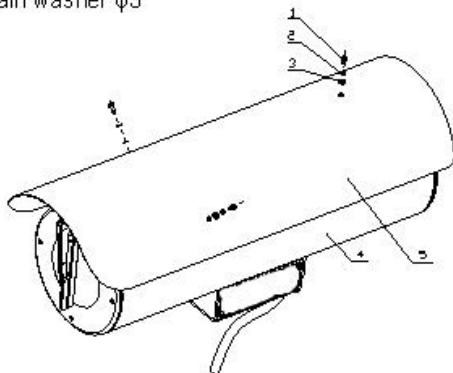
2.3 Installation space and installation strength

Please confirm the installation location can accommodate this product and the equipment and installation of the structure of the space. To confirm the installation of the wall, the carrying capacity of the bracket can reach 4 times the safety of the entire equipment weight.

3 Installation steps

3.1 Installation of sun shade

Install the sun shade on the fixed seat of external cylinder of camera (use the cross screwdriver) with cross recess head screw 3*8, spring washer $\phi 3$, plain washer $\phi 3$



Note: 1. Cross recess head screw 3*8 (Parts)

2. Spring washer $\phi 3$ (Parts)

3. Plain washer $\phi 3$ (Parts)

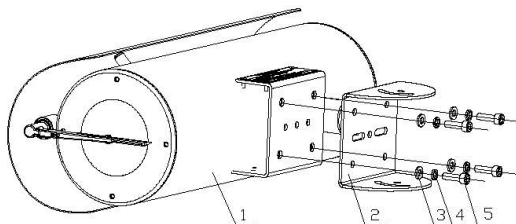
4. External cylinder of camera

5. Sun shade

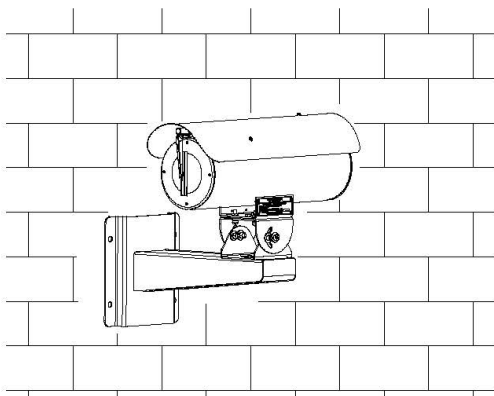
3.2 Installation of base and upholder

Fixed the base with upholder (the upholder is optional parts, it was installed with the socket head wrench) by hexagon socket head cap screws 6*20, spring washer $\phi 6$, plain washer $\phi 6$, and confirm the connect was fastness.

The design sketch of wall mounting . The support in this fig is optional components.



Note: 1. Camera 2. Upholder (Parts) 3. Plain washer $\phi 6$ (Parts)
4. Spring washer $\phi 6$ (Parts)
5. Hexagon socket head cap screws 6*20(Parts)



Note: Don't allow the people stay in the place where below the installation position during installation, in order to avoid the falling object to hurt people.

3.3 External wiring harness of camera

The downline contains the power line, the wire.

Functional definition	AC24V	AC24V	Network cable	Earth wire
Color	Red	Black	RJ45	Yellow&Green

3.4 Operation instruction

function	Operation instruction
Open/Close Wiper	Set251 st / Recall 251 st preset

4 Fault and troubleshooting

Fault phenomenon	Reason / solution
No self-test after power supply, no image output	There is a broken line in the circuit / find breakpoints, rewiring. Low supply voltage / Replace the power adapter to increase the output voltage.
Self-test exception	Low supply voltage / Replace the power adapter to increase the output voltage.
Equipment control is normal, image instability	Poor video circuit contact / troubleshooting, rewiring. Access device exception / replacement access device
Equipment control is normal, image instability	Network line bad contact / dismantling bad point, re-wiring. Access to computer performance is insufficient, take up CPU usage / lower stream and resolution Lack of network bandwidth / replacement of industrial Gigabit switches Access decoder performance / replacement of high-performance decoder
Self-test normal, can not control	Wrong wiring / rewiring Set the baud rate, protocol, address and device mismatch / screen configuration according to device parameters
Repeated restart	Insufficient supply voltage or voltage instability / to ensure that the input device voltage stability

Can not control the lens to perform zoom zoom action	Wiring error / re-connect the lens control line Circuit board lens control problems / replacement circuit board (please contact after-sales rework processing, do not replace parts or repair)
Can not recall the set lens preset point	DIP switch relative to the set lens preset dialing is not set to ON / DIP switch control lens preset dialing dial into ON
The image is lost when the control device rotates	Rotation process at the same location lost image / conductive slip ring there is a bad contact, replace the parts (please contact after-sales rework, do not replace parts or repair)

Note: If the customer to buy this product does not use the lens preset function, as far as possible the DIP switch relative to the set lens preset dialing is not allocated to OFF.



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