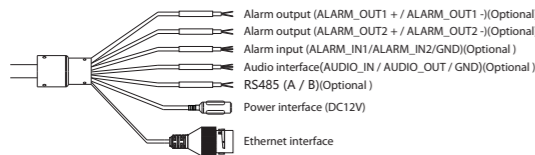


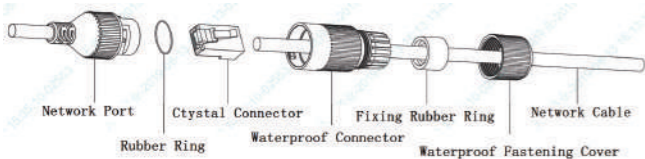
6.Hardware Interface



Description of tail cable interface

Description:
1. The power supply and Ethernet port adopt standard interfaces. Others are optional interfaces. Please refer to the specific product model. Please contact the dealer or contact the after-sales service department of Tiandy Technology Co., Ltd if you have any questions. The right of final interpretation belongs to Tiandy Technology Co., Ltd.

Note: The camera is equipped with a full-function tail cable or a multi-function tail cable. Please refer to the actual product.

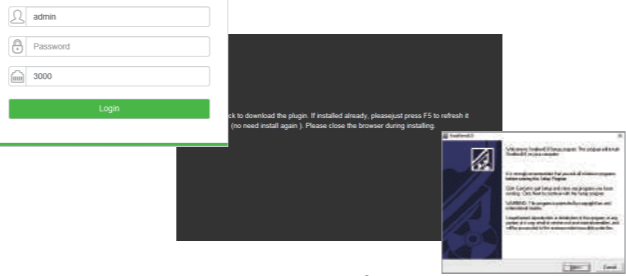


Waterproof installation diagram of network cable

7.Quick operation guide

7.1 Access to Devices

1.Camera Default IP address: 192.168.1.2. Please set the computer IP and device IP address in the same network segment: for example, setting 192.168.1.3 as computer IP, you can access the camera through the Internet Explorer.
Note: Use the IE browser that comes with the Windows operating system and make sure the version is above 8.0.
2.Download and install the plug-in when first operating.
3.Open IE browser and input the device IP address in the address bar to display the login interface; input the user name and password: admin / 1111 (user name is not case sensitive), and click "log in" to display the download control prompt interface. Click the link to download and install the control.



Login interface

4.After the plug-in is successfully installed, reopen the browser, input the device IP address, and click "Go to" to display the login interface.
5.Enter "admin/1111" (not case-sensitive) as Username and Password. Stream/sub stream/others stream can be connected when entering into the preview interface.
6.To ensure equipment network security, you are strongly recommended to change the password in [User Management] after login. For detailed instructions for using the device, please click (?) In the upper right corner of the interface to acquire online help.

Appendix I: Frequently Asked Questions (FAQ)

Safety Instruction	Corresponding Measures
Equipment or fogging	Do not open the device under wet environments. Fix the camera after disassembly and assembly, especially the screws that need to be sealed. The network cable, lock, etc. should be waterproofed as required. Camera needs to be returned to the factory for repair when he front cover glass is subjected to stress extrusion or impact.
Poor infrared effect	The infrared light cannot be fully turned on as not using the power supply that meets the specified specifications. The monitoring scene is out of the infrared light range. The transparent dome covers and the lens are not clean, or they are ground during the installation process, which needs to be replaced. The filter does not switch to night mode, and the image sensor does not sense infrared light.
Client or WEB cannot log in	The client cannot be installed or is not displayed properly. The graphics card driver is not installed correctly. Network connection or setup issues. User name and password are incorrect.
Power Adapter	The power adapter power supply range and rated power do not meet the specified requirements. The power adapter does not meet the temperature range
Turn picture upside down	Right click the real-time video area on the preview interface of IE, and then click "Video Rotation" option.
Abnormal communication control	Check the camera configuration - PTZ management - serial port settings, whether it matches the reality

Appendix II Maintenance instruction

Maintaining content	Corresponding Measures
Lens soiled	Dust: Clean the dust by using the oil-free soft brush or blow ball. Grease: Gently wipe the dust and let it dry. Use the oil-free cotton cloth or lens cleaning paper with alcohol or lens cleaning liquid, wipe the lens from center.
Electric lens focus or zoom abnormal	Abnormal power failure during electric lens operation: login IE - configuration - advanced options - system maintenance - lens reset.
Box camera picture brightness abnormal	Box Camera supports DC and P-iris types of automatic aperture lens. Different lens matching may cause abnormal picture brightness. Step 1, login IE-configuration-camera settings - HD parameters - aperture mode. Step 2, login IE -configuration - advanced options - system maintenance - aperture correction
Dome camera transparent cover maintenance	ransparent dome cover is made of transparent plastic. Dirty as dust, grease, fingerprints, etc. will cause image performance degradation or scratch the surface of the transparent dome. Dust: Clean the dust by using the oil-free soft brush or blow ball. Grease or fingerprints: Gently wipe the dust with the soft cloth and let it dry. Use oil-free cotton cloth or lens cleaning paper with alcohol or lens cleaning liquid to wipe from the center outwards.
Infrared camera glass maintenance	Gently wipe dust, water droplets or oil with a soft cloth and let it dry, then wipe from the center of the lens after adding alcohol or lens cleaning liquid to the oil-free cotton or lens cleaning paper.

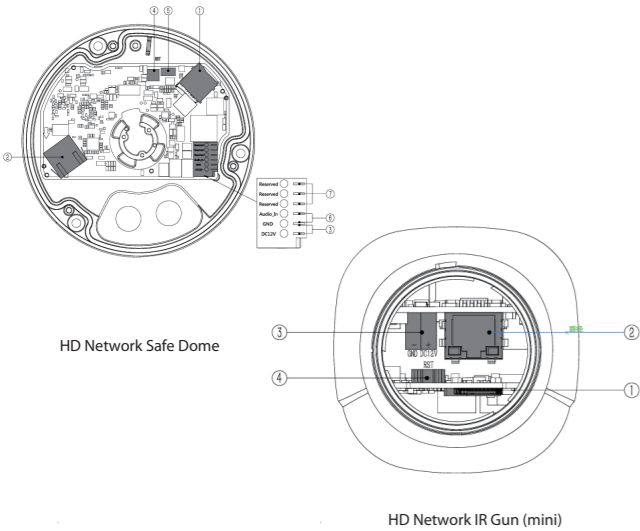
Tiandy

Network Video Camera Series

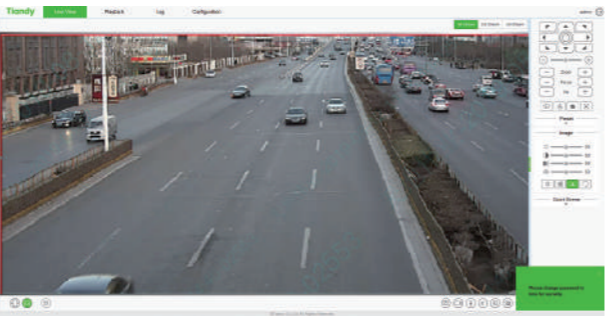
Quick Start Guide



Thank you for choosing our products. Please read the User Manual carefully before using this product. This user manual will provide you with instructions for correct installation and operation. Service hotline: 400-686-5688



NO	Interface types	Note
①	micro SD slot	You'd better use micro SD card larger than 128GB. Cut the power before operate it.
②	Internet interface	Use reticle within 100 meters.
③	Power interface	Use DC 12V charger.
④	Hardware reset	Press it for 5 second. This operation will delete all your personal data, and reset all setting to the manufacturer default setting.
⑤	MIC interface	Connect the microphone.
⑥	Audio in	Audio sampling or microphone.
⑦	Obligate interface	For obligate function.

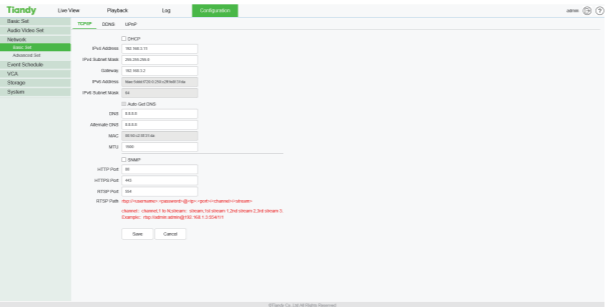


Video Preview

7.2 Modify IP

To prevent IP conflicts, modify the camera's IP address in time. Please log in to the device on the Internet Explorer and modify the camera IP address (Configuration-Network-Basic Set) .

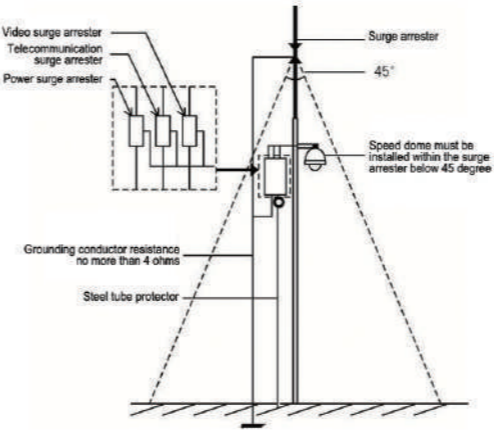
Automatically obtain IP address by enabling DHCP; manually assign IP address by entering a new IP address and gateway (IP and gateway shall be in the same network segment) and click "Save". Some types will take effect after automatic restart.



Basice Set Interface

Appendix III Precautions for Lightning and Surges

In order to ensure electrical safety, the following lightning protection measures must be taken
1. The distance between the signal line and high voltage has to be at least 50 meters.
2. Outdoor wiring should be under the eaves as possible as you can.
3. Sealed steel pipe should be buried when wiring on the empty plots and the steel pipe should be grounded at one point. Aerial wiring is forbidden.
4. In the area of severe thunderstorms or high sensing voltage zone (e.g. high-voltage substations), it is necessary to install additional high-power lightning protection equipment and installation of lightning rods and take other measures.
5. Outdoor devices and lighting-proof and grounding design of wires requirements must be combined with the building lightning requirements and in line with the relevant national standards, industry standards.
6. the system must be equal potential ground. The grounding device must meet the requirements of system anti-jamming and electrical safety, and must not be short-fired or mixed with the strong grid zero line. The grounding impedance must be less than 4Ω and the cross-sectional area of the grounding conductor must be more than 25mm² when the system is grounded separately.



Disclaimer

1. The company has tried its best to ensure the completeness and accuracy of the contents contained in the Manual. For any doubt or dispute, please refer to the company's final explanation.
2. The company will keep the contents contained in this Manual up-to-date in accordance with product enhancements and will periodically improve or update the products or procedures described in this Manual. The updated contents will be reflected in the latest version of this Manual without prior notice.
3. The contents contained in this Manual are for reference and guidance only for users. It is not guaranteed to be exactly the same with the real product. The real product shall prevail.
4. The parts, components and accessories mentioned in this Manual are for illustration purposes only and do not represent the configurations of your purchased model.

WARRANTY CARD

Thank you for choosing our products. This warranty card is our company's solemn commitment to you, and based on this, the company provides you with standard warranty services. It is strongly recommended that you read the instructions carefully before using the product and operate it correctly.

Warranty Policy	The warranty applies with the warranty card supplied.
After-sales Service Policy	This warranty is applicable to the product from the date of purchase, but the official original purchase certificate shall be provided. If the official original purchase certificate cannot be provided or the record (date, commodity name) is not clear, the company will define the warranty period based on the product information.
Warranty Services	According to the national regulations, users enjoy the warranty services for the quality problems within the warranty period. The followings shall not be covered by the warranty: • Exceeding one-year warranty • Physical damage due to improper use or storage • Failure or damage caused during transport, loading/unloading or handling • Repair or modification by non-professionals • Failure or damage caused by negligence, violation of operation rules or misoperation • Failure or damage caused by force majeure factors (Fire, earthquake, lightning strike) • No warranty over accessories such as fuse and battery • Products not maintained by the company
7×24 high-quality service The company reserves the right of final evaluation of product failure	





1.Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger and property loss. Please carefully read this guidance and keep it for future reference before operating the device.

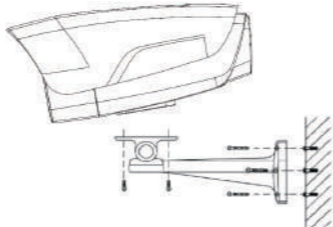
The latest version will be updated regularly according to the software and hardware improvement of our product. Updated information will be updated in the latest version of this manual without prior notice.

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

 Warnings	<ol style="list-style-type: none">1. Input voltage should meet both the SELV (Safety Extra Low Voltage)2. Contact the distributor for abnormal operation. Do Not disassemble or modify the devices in any way.3. Moisture must be avoided for indoor devices in case of fire and electric shock.4. Install the equipment on the ceiling to ensure that it can withstand at least 4 times the weight of the equipment.
 Cautions	<ol style="list-style-type: none">1. Original package must be used for shipment and management to avoid high pressure, high vibration and imprisonments2. Avoid direct contact with image sensor. Cover the dust cap while not operating.3. Do not aim the camera at the extra bright places (light, sunlight, laser) in case of affecting the endurance of CMOS at the same time.4. Do not place the camera in extremely hot, cold, dusty or damp locations, and do not expose it to high electromagnetism radiation.5. To avoid heat accumulation, good ventilation is required for operating environment.6. Ensure that the installation location is kept at a sufficient distance from the surrounding electromagnetic sensitive equipment to prevent electromagnetic interference.7. Keep the camera away from liquid while on using. Original package during shipment is strongly recommended.8. Any replacement of the device battery or the use of a mismatched type may cause irreversible damage to the device.9. Modify the default login password when first login the device to avoid the loss caused by weak password.10. Cut off electric power before remove micro SD card or USB devices.

-2-

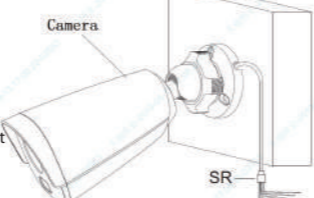
2.2 Installation Instructions



Note:
Brackets must be purchased separately.

Installation Diagram IR Integrated Machine with Bracket

- Steps
1. Mark the hole position on the wall with a ink pen according to the mounting hole of video camera bracket.
 2. Make a hole at the indicated position with an electric drill, and drive the expansion rubber plug into the hole.
 3. Fasten the wall mounting bracket on the wall with screws.
 4. Take out the camera in the packaging box, and fasten the camera on the universal joint of bracket with screws. Adjust the universal joint of bracket to a proper position and then tighten the screws. (The mounting hole of camera is 5.5mm deep. Do not use excessively long screws.)
 5. Finally, remove the protective film on the IR anti-reflection plate (some models are provided with IR anti-reflection plates, please clean the cleaning of the IR anti-reflection plate, to avoid oil stains and scratches).



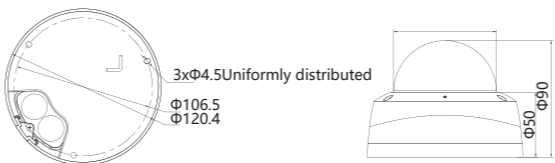
Installation Diagram IR Integrated Machine with Bracket

- Steps
1. Mark the hole position on the wall with a ink pen according to the mounting hole of video camera bracket.
 2. Make a hole at the indicated position with an electric drill, and drive the expansion rubber plug into the hole.
 3. Fasten the wall mounting bracket on the wall with screws.
 4. To ensure waterproof effect, please place the SR of tail cable under the video camera during construction, see the figure above.
 5. After adjusting the video camera to the required scene, tighten the knob to fasten the equipment firmly.
 6. Finally, remove the protective film on the IR anti-reflection plate (some models are provided with IR anti-reflection plates, please clean the cleaning of the IR anti-reflection plate, to avoid oil stains and scratches).

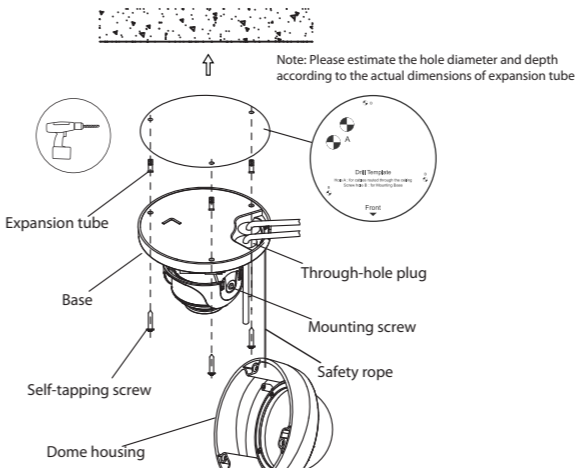
-4-

4.HD Network Safe Dome Video Camera

4.1Dimension (unit: mm)



4.2 Installation Instructions

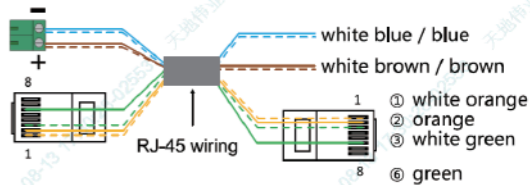


Installation Diagram of HD Network Safe Dome Video Camera

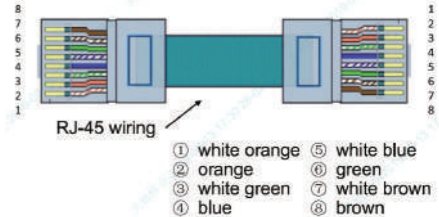
-6-

Steps:

1. Unscrew the top screw and remove the camera bracket. Unscrew the back cover of camera according to the mark, unscrew the waterproof lock on the back cover, and take out the rubber rod.
2. Paste the positioning stickers (accessories) on the wall where the camera needs to be installed, drill holes according to hole position B, and then drive the expansion tube (accessory) into the hole. Hole position A is the outlet hole. If necessary, drill holes according to the hole position. Pass the network cable through the camera bracket, and then fasten the bracket on the wall with 3 self-tapping screws (accessories). Pass the network cable through the waterproof lock and the back cover of camera.
3. Equip the network cable that has passed through the wire lock with plug and power terminal. (Refer to the figure below for wire sequence)
4. Replace the desiccant, and connect the network and power supply, Tighten the back cover to the camera housing, adjust the length of cable, and then tighten the waterproof lock to the marked position. (Note: Please keep the back cover aligned with the scale on the camera housing during the adjustment of waterproof lock).
5. Fasten the camera housing to the bracket and tighten the top screw. Loosen the bracket adjusting nut on the camera bracket, adjust the camera angle, and tighten it after adjusting the picture to the required scene. Remove the protective film from the housing and complete the installation.



Refer to wire sequence diagram for non-POE power supply mode



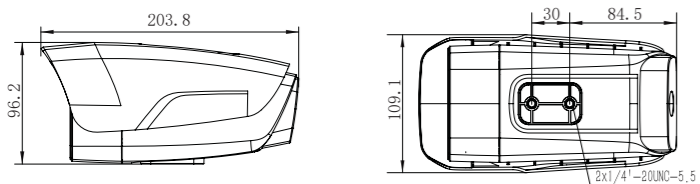
Refer to wire sequence diagram for POE power supply mode

Note: The mounting surface of camera must have sufficient bearing capacity.

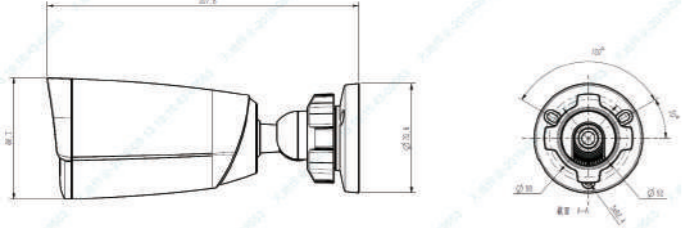
-8-

2.HD Network IR Integrated Machine

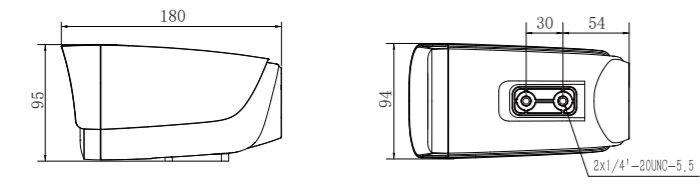
2.1Dimension (unit: mm)



External View of Type I HD Network IR Integrated Machine



External View of Type II HD Network IR Integrated Machine

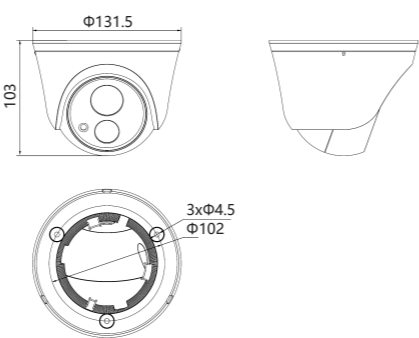


External View of Type III HD Network IR Integrated Machine

-3-

3.HD Network IR Dome Camera

3.1Dimension (unit: mm)



3.2 Installation Instructions

- Steps:
1. Take out the video camera, rotate the chassis of video camera to the indicated position, and remove the chassis.
 2. Determine the hole position according to 3 mounting holes at the chassis of video camera, mark the hole position on the wall with a ink pen. Make a hole with an electric drill, and drive the expansion rubber plug into the hole.
 3. Mount the chassis to the wall with mounting screws, install the video camera in the chassis according to the indicated position, and adjust the direction of video camera by turning to a suitable position.
 4. Finally, remove the protective film on the IR anti-reflection plate (some models are provided with IR anti-reflection plates, please clean the IR anti-reflection plate, to avoid oil stains and scratches).

Note: The mounting surface of video camera must have sufficient bearing capacity.

-5-

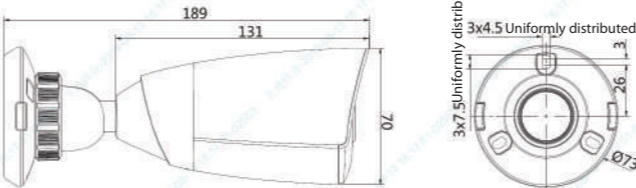
Steps:

1. Paste the positioning stickers (accessories) on the position where the video camera needs to be installed, make a wire hole at Position A, and make a mounting hole at Position B with a electric drill.
2. Loosen the screws, remove the dome housing, pass the power cord, audio cable (optional) and network cable through the cable hole plug at the base of dome, with a cable diameter of 3-5mm (Note: pull back after passing the cable to ensure water resistance), and then fasten the base of dome to the wall or ceiling. Connect the power cable and audio cable (optional) to the corresponding interface of camera. After making the plug of the network cable, insert it into the Ethernet port of camera, and then fasten the base of dome to the wall or ceiling. The recommended torque is 6-7kgf.cm.
3. Adjust the lens to the required scene, and then tighten the two mounting screws. The recommended torque is 6-7kgf.cm.
4. Before installing the equipment in a humid environment, please replace the desiccant and then fasten the dome housing to the base of dome, and finally remove the protective film on the housing (Note: do not crimp when installing dome housing on the base).

Note: The mounting surface of video camera must have sufficient bearing capacity.

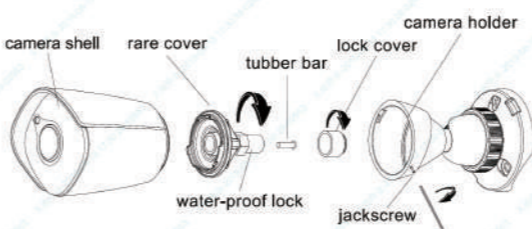
5. HD Network IR Gun Video Camera (mini)

5.1 Dimensions (Unit: mm)



5.2 Installation Instructions

5.2.1 Installation Instructions

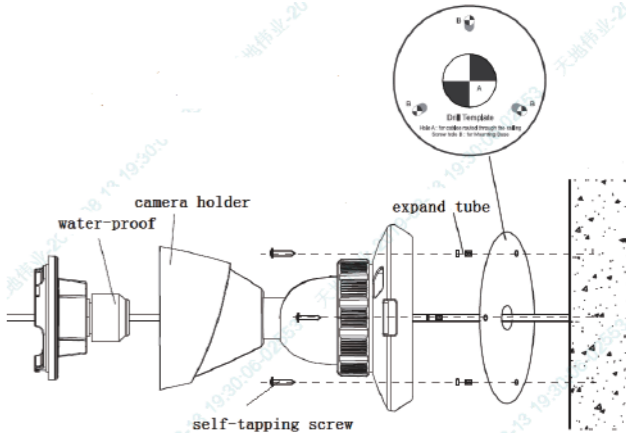


-7-

5.2.2 Installation Instructions of Model with Outgoing Cable

Steps:

1. Paste the positioning stickers on the position where the video camera needs to be installed, make a wire hole at Position B, and drive the expansion tube into the hole. (Hole position A is the outlet hole) Pass the network cable through the camera bracket, and then fasten the bracket on the wall with screws. Pass the network cable through the waterproof lock and the back cover of camera.
2. Replace the desiccant, and connect the network and power supply, and tighten the back cover to the housing. (Note: Please keep the back cover aligned with the scale on the video camera housing during the adjustment of waterproof lock)
3. Fasten the camera housing to the bracket and tighten the top screw. Loosen the bracket adjusting nut on the camera bracket, adjust the camera angle, and tighten it after adjusting the picture to the required scene. Remove the protective film from the housing.



Note: The mounting surface of video camera must have sufficient bearing capacity.

-9-