



# HD Pan, Tilt, and Zoom Network Camera

Quick Start Guide

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## IMPORTANT SAFEGUARDS AND WARNINGS

### Electrical Safety

All installation and operation here should conform to your local electrical safety codes. The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated AC24V/3A in the IEC60950-1 (See actual product specifications). This series product may support Hi-PoE as well. Please note: Do not connect these two power supplying sources to the device at the same time; it may result in device damage! We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation. We are not liable for any problems caused by unauthorized modification or attempted repair.

### Transportation Security

Care must be given to avoid heavy stress, violent vibration or water damage during transportation, storage and installation.

### Installation

Do not apply power to the camera before completing installation. Please install the proper power cut-off device during the installation connection. Always follow the instruction guide the manufacturer recommended.

### Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers. We are not liable for any problems caused by unauthorized modifications or attempted repair.

### Environment

This series network camera should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc. Please keep it away from the electromagnetic radiation object and environment. Please make sure the CCD (CMOS) component is out of the radiation of the laser beam device. Otherwise it may result in CCD (CMOS) optical component damage. Please keep the sound ventilation. Do not allow the water and other liquid falling into the camera. Lightning-proof device is recommended to be adopted to better prevent lightning damage. The grounding studs of the product are recommended to be grounded to further enhance the reliability of the camera.

### Daily Maintenance

Please shut down the device and then unplug the power cable before you begin daily maintenance work. Do not touch the CCD (CMOS) optic component. You can use the blower to clean the dust on the lens surface. Always use the dry soft cloth to clean the device. If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device. Please put the dustproof cap to protect the CCD (CMOS) component when you do not use the camera.

### Accessories

Be sure to use all the accessories recommended by manufacturer. Before installation, please open the package and check all the components are included. Contact your local retailer ASAP if something is broken in your package.



## 1A. OVERVIEW

This series network camera integrates the traditional camera and network video technology. It adopts video data collection and transmission together. It can connect to the network without any auxiliary devices.

This series network camera uses standard H.264 and H.265 video compression technology, which maximally guarantees the video quality. This PTZ also supports 24v or Hi-PoE power.

The camera supports the IR night vision function. In the night environments, the device can use the IR light to highlight the object which is suitable for the surveillance function in the low illumination environments. The waterproof design conforms to the IP67 level, thus is suitable for use in outdoor environments.

It can be used standalone or with a network video recorder. If used standalone, it is able to utilize IC Realtime's software suite including Smart ICRSS, IC View and ICRSS Pro. This model also supports IC Realtime's P2P connection which allows easy remote connection and PTZ control.

**Note:** It may take up to 5 minutes when powering on this camera for the first time.

## 1B. Cable Interface

See Figure 1-1. Connections may vary depending on model.

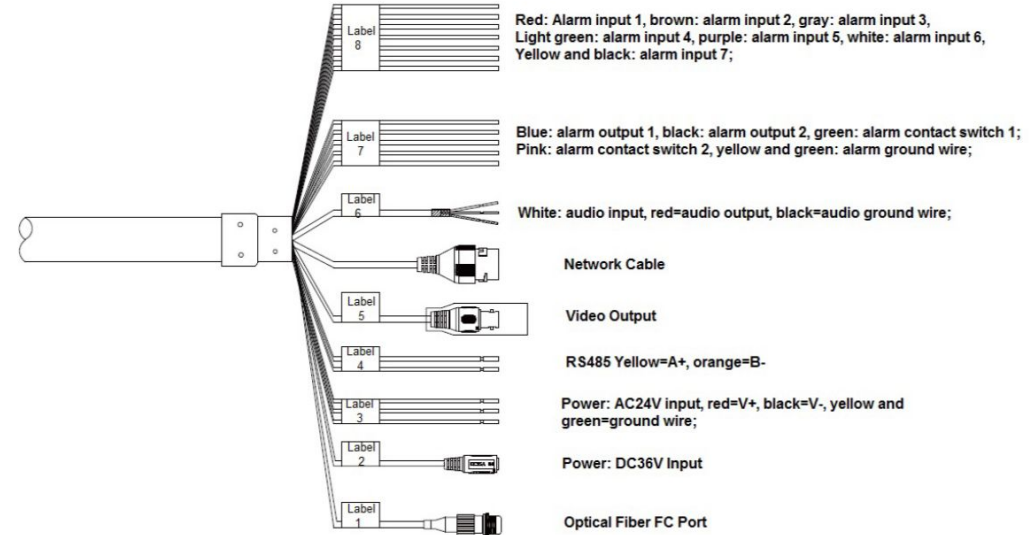


Figure 1-1

**Important:** Do not carry the camera by its cable interface. See Figure 1-2.

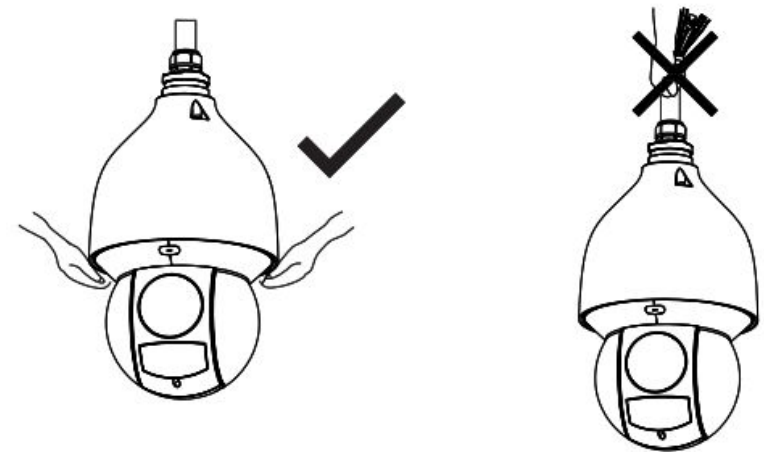


Figure 1-2

## 2A. INSTALLATION STEPS (Quick Mounting Connector)

**Step 1** Install the quick mounting connector on the bracket, and pull out the cable interface through the quick mounting connector.

**Step 2** Clip one side of the safety cable on the speed dome and the other side on the quick mounting connector. See Figure 2-1.

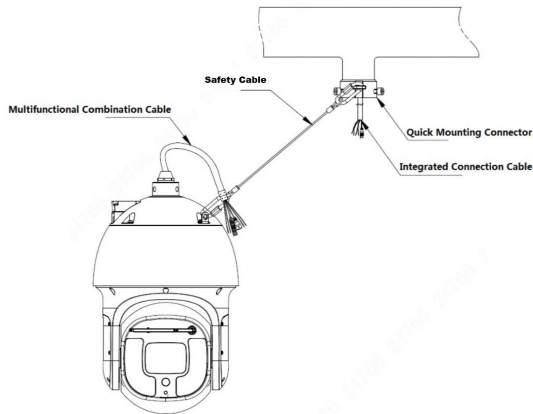


Figure 2-1

**Step 3** Align the flange edge with that of the quick mounting connector; push the PTZ into the quick mounting connector, as shown in Figure 2-2.

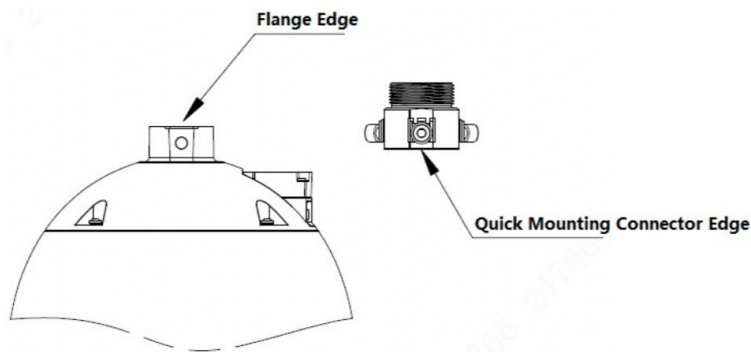


Figure 2-2

**Step 3** Connect PTZ cable and wall cable, make sure both are waterproofed properly. Install the three stainless screws into the corresponding screw holes of flange, use the hex tool to tighten the three stainless screws, as shown in Figure 2-3.

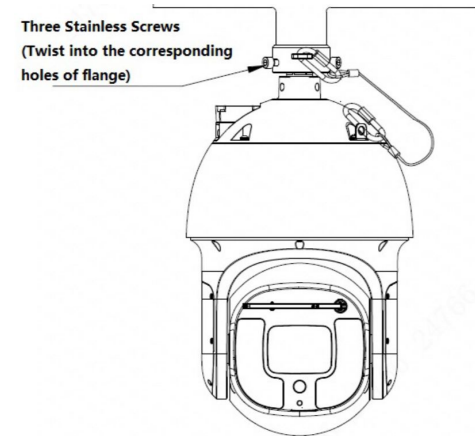


Figure 2-3

**Step 4** Confirm that the screws on the quick mounting connector are tightened securely, the safety buckle is reliably connected and the speed dome is firmly fixed. The speed dome installation is completed after confirmation. See Figure 2-4.

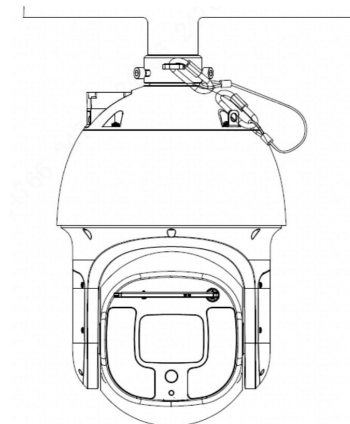


Figure 2-4

## 2B. INSTALLATION STEPS (Without Quick Mounting Connector)

**Step 1** Connect PTZ interface cables to the wall cables. Make sure both are waterproofed properly. See Figure 2-5.

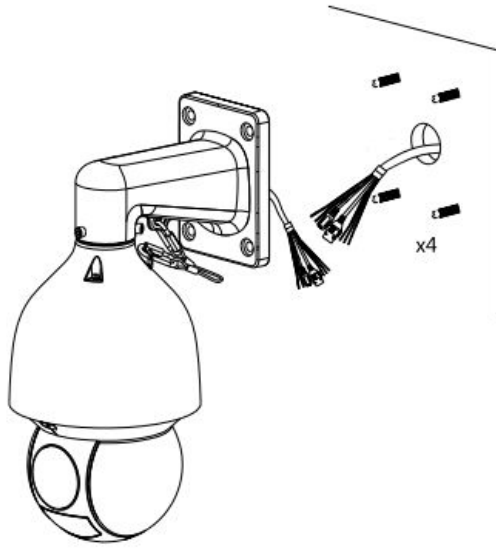


Figure 2-5

**Step 2** Align the flange edge of the camera with that of the mounting bracket; push the PTZ into the bracket, twist the three stainless screws into the corresponding screw holes of the flange, and then use a hex tool to secure three stainless screws, as shown in Figure 2-6.

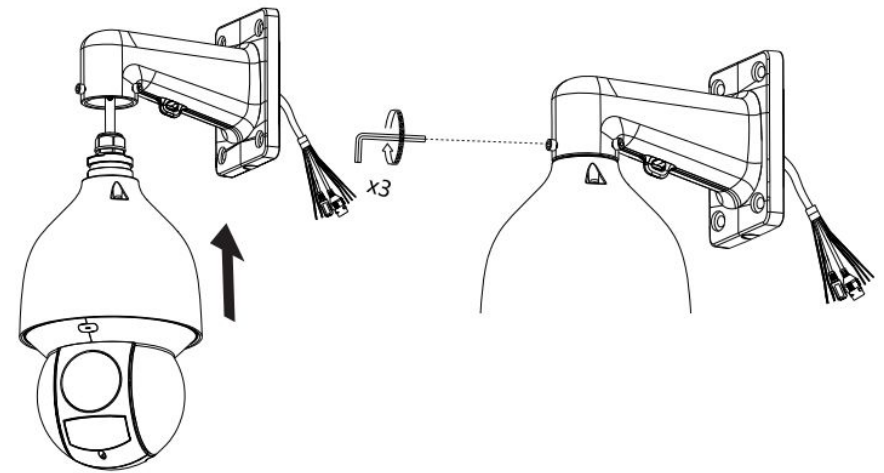


Figure 2-6

**Step 3** Connect one end of the safety cable to the speed dome and the other end on the mounting bracket hook, as shown in Figure 2-7. Installation is complete once you confirm all screws are tightened securely and the safety cable is installed properly.

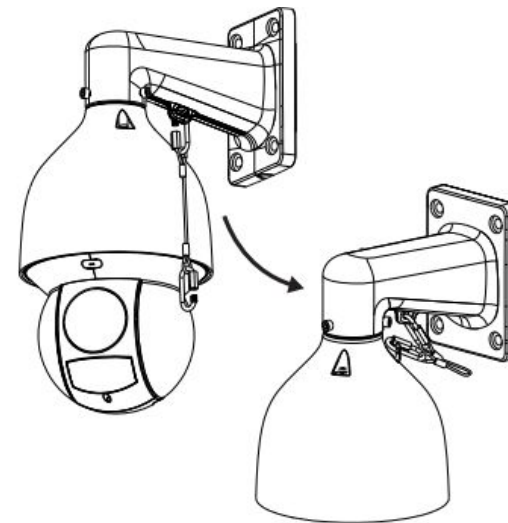


Figure 2-7

## 2C. RESTORE FACTORY DEFAULTS/ INSTALL SD CARD

**Important:** Make sure the device is powered when attempting to press RESET button.

**Note:** Some PTZ models may take up to 5 minutes to reboot after reset.

**Step 1** See Figure 2-8 for Cover location. Remove the cover. Skip to Step 3 if only installing SD Card.

**Step 2** Slightly press the RESET button for 10-30 seconds to complete the reset function. See Figure 2-8. The camera will reboot when the reset process is complete.

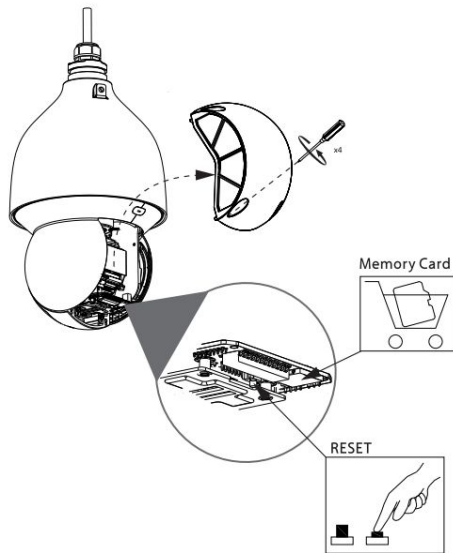


Figure 2-8

**Step 3 (If installing SD Card)** Adjust the Micro SD Card to a proper direction shown in Figure 2-8.

**Step 5** Secure cover and re-install camera.

## 3A. OVERVIEW

The IP Config tool is used to search the local network for IC Realtime devices as well as modify the IP addresses and upgrading firmware.

This software can be downloaded at:

<https://icrealtime.com/downloads> under *Desktop Utility Apps*

## 3B. OPERATION

Double click the “ConfigTools.exe” icon to run. The interface will be displayed as shown in Figure 3-1. Click on the blue circle icon with the two arrows to refresh and scan the network.

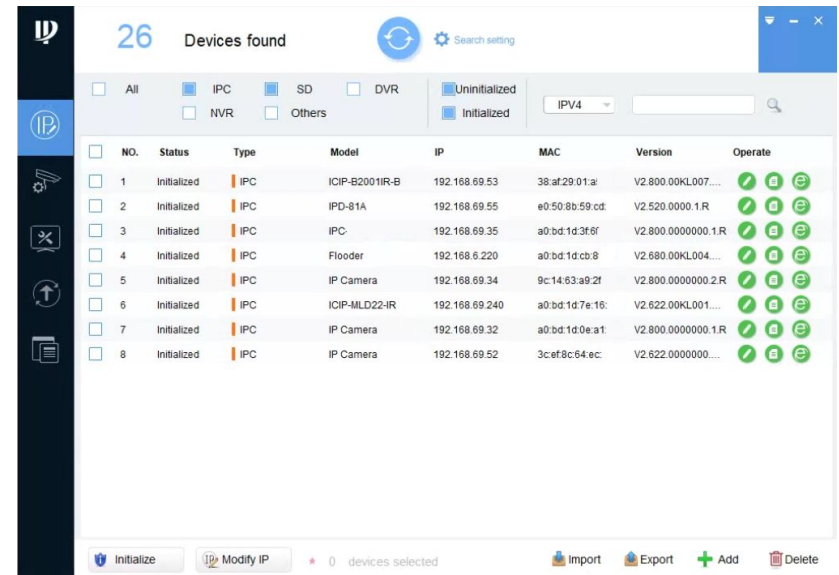


Figure 3-1

Select “Search Setting” to modify the IP range to scan for and input the correct login information for the device. See Figure 3-2.

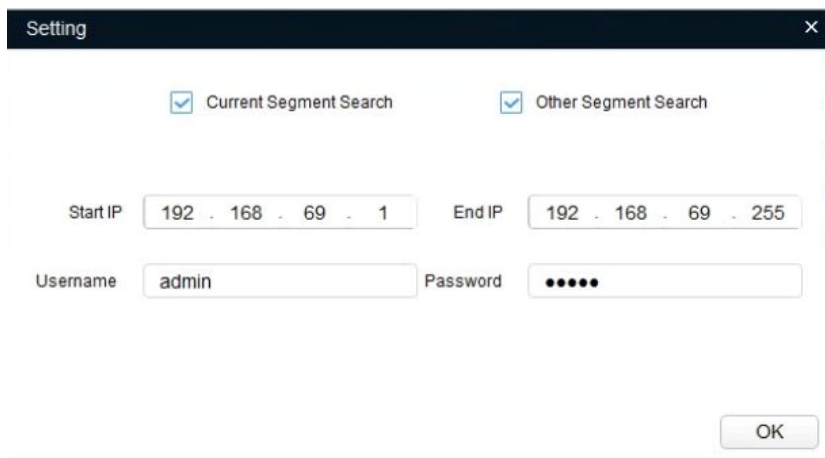


Figure 3-2

**Note:** If the Camera status is “Uninitialized,” select the camera and then click the “Initialize” icon on the bottom left side and follow the process on screen to initialize the device.

The Operate column will allow you to modify device, view device information and link to web browser. See figure 3-3.

Version	Operate
V2.622.0000000....	  

    
Edit IP Address   Info   Web GUI link

Figure 3-3

To modify the device IP address, select one of the devices from the list and then click the pencil icon. The dialog box to modify the IP information will populate. See Figure 3-4.

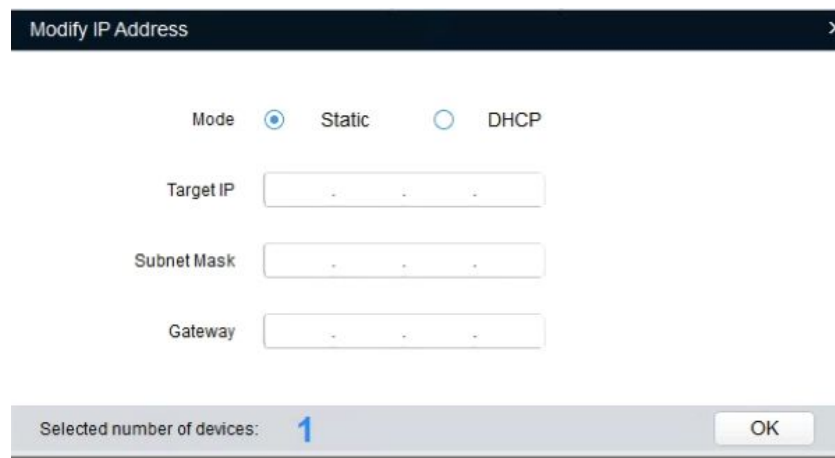


Figure 3-4



The Web Interface includes several modules: Monitor channel preview, system configuration, alarm and etc. See Figure 4-3.

- Live: Live video of the camera
- Playback: View recording from SD card (if applicable)
- Setting: For configuration changes.
- Alarm: For monitoring alarm triggers (motion detect, IVS, abnormalities, etc)
- Logout: Logs out of the camera web GUI

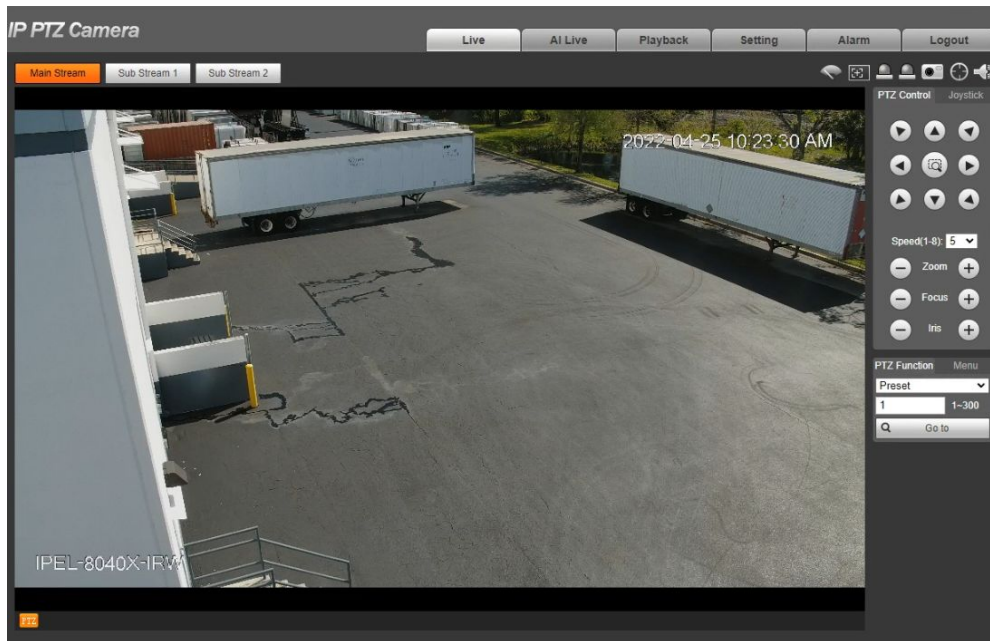











Figure 4-3

Live View Functions:

	<p>Relay Out: Displays alarm output state. Click the icon to enable or disable alarm output.</p> <ul style="list-style-type: none"> <li>• Red: Alarm output enabled.</li> <li>• Grey: Alarm output disabled.</li> </ul>
	<p>Enable Wiper: Toggles the built-in Wiper to clean the lens.</p>
	<p>Snapshot: Click the icon to capture one picture of the current live view. It will be saved to the configured storage path.</p>
	<p>Talk: Click the icon to enable or disable the 2 way talk.</p>
	<p>Record: Click the icon to record live video. It will be saved to the configured storage path.</p>
	<p>Easy Focus: Click the icon to display the AF Peak (focus eigenvalue) and AF Max (max focus eigenvalue) on the video image.</p>
	<p>Audio: Click the icon to enable or disable audio output.</p>
	<p>PTZ Controls; Click the directional arrows to move the PTZ.</p>
	<p>PTZ Functions: Toggles functions such as Preset, Tour, Scan and Pattern. Select a function, input a value and then flick "Go to" to toggle the function.</p>

## 5A. FAQ

<b>Device does not operate properly/ lost password.</b>	Please refer to section 2B for factory reset process. Cam will need to be initialized after factory reset.
<b>P2P status is “not connected/ offline”</b>	You may need to set device IP to DHCP. After acquiring a different IP address, verify P2P status and set camera back to static IP if successful.
<b>IR video is poor/ does not turn on.</b>	Verify the camera is supplied with the recommended amount of power. You may need to test voltage/ amperage of the camera while under load. Enough visible light at the location can also cause IRs to not switch on.
<b>I can not upgrade the device via network.</b>	Contact technical support to request firmware.
<b>I cannot login to the client-end or the WEB.</b>	If the Camera HTTP port is changed, you will need to specify the port number after the IP. (ex: <a href="http://192.168.1.108:8080">http://192.168.1.108:8080</a> ) Ensure the correct login credentials are being used. The Smart ICRSS software will use the TCP port. Make sure you input the correct TCP port number.
<b>The account is locked</b>	Reboot the camera to clear lock out. Verify the login to make sure it is correct.
<b>Camera does not show up on local network.</b>	Verify the camera is supplied with the recommended power supply. Change network cable or use short patch cable to troubleshoot.

## 5B. LIGHTNING PROOFING AND SURGE PROTECTION

Some PTZ models are equipped with TVS lightning protection technology. It can effectively prevent damages from various pulse signals below 6000W, such as sudden lightning and surge. Necessary precaution measures should be taken in accordance to local guidelines when installing the speed dome in an outdoor environment.

- The signal transmission cable and high-voltage device (or high-voltage cable) should be at least 50 meters apart.
- If possible, route cables through a properly grounded and shielded underground conduit.
- In areas of strong lightning occurrence or near high sensitive voltage (such as near high-voltage transformer substation), it is required to install additional a high-power lightning protection device or lightning rod.
- Electrical bonding is recommended. The ground device should meet anti-jamming requirements and conform to your local electrical safety code. The ground device should not short circuit to N (neutral) line of high voltage power grid or mixed with other wires. When connecting the system to the ground alone, the grounding resistance should not be more than 4Ω and earth cable cross-sectional area should be no less than 25 mm<sup>2</sup>. See Figure 5-1.
- For indoor usage, The yellow and green GND wire or GND screw of the speed dome should be reliably connected by several strands of copper wire with no less than 25mm<sup>2</sup> and indoor equipotential GND terminal. Please refer to Figure 5-2 for lightning proof installation mode.

**5B. LIGHTNING PROOF AND SURGE PROTECTION (Continued)**

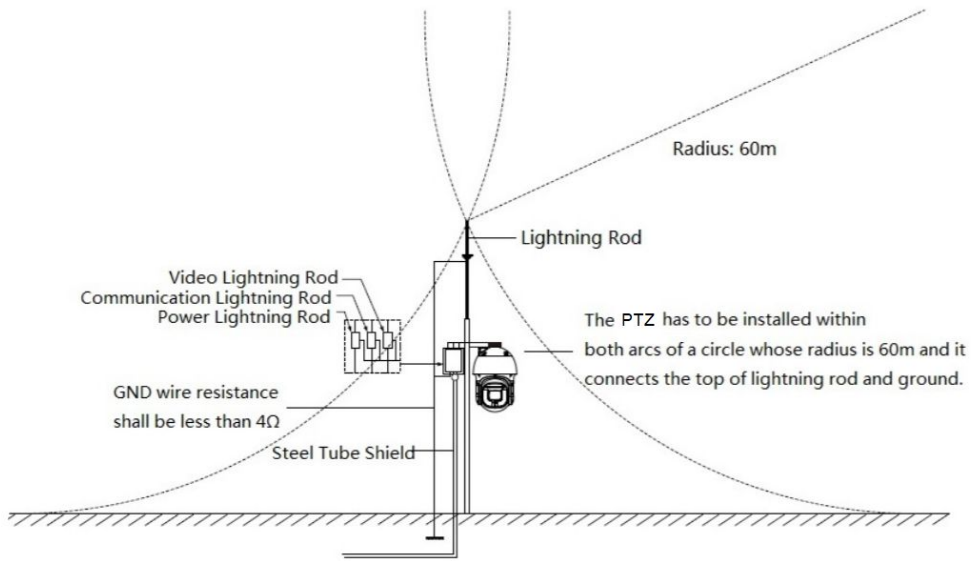


Figure 5-1

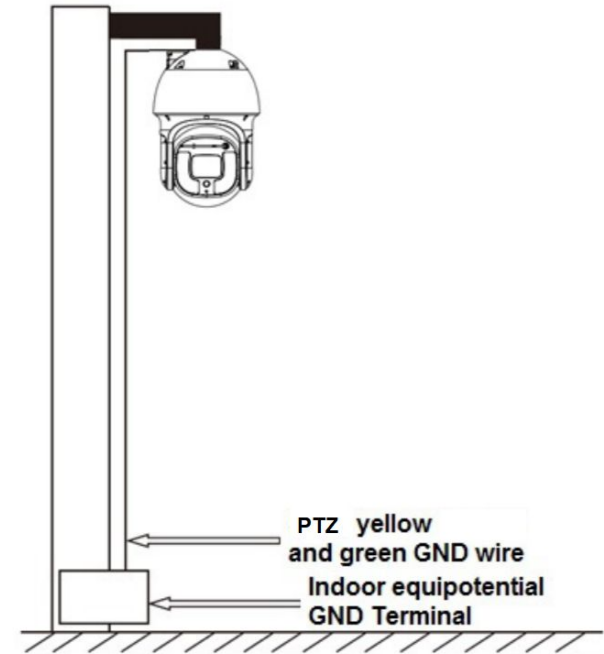


Figure 5-2