# IC REALTIME

# HD-AVS Panoramic Bullet 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). Please check product specifications for power requirements. 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.

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## 1A. OVERVIEW

This series Panoramic Bullet camera utilizes High Definition Advanced Video System (HD-AVS) technology, an HD-over-coaxial cable video standard that allows long-distance, HD transmission of video, audio, and control functions. The panoramic technology allows the multiple lens on the camera to be viewed as one continuous image. Most camera models support CVBS with an additional output.

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 and some models offer IK10 rating, thus is suitable for use in outdoor environments.

## 1B. Cable Interface

See Figure 1-1 for cable interface identification. Outputs may vary depending on model.

1. DC Power input (please see your specific model's power requirements)
2. Video outputs (Red- Panoramic Output, Black- single camera output)
3. Alarm I/O (Blue: Alarm output port, Black: Alarm Ground terminals, Yellow & Orange: Alarm input ports,
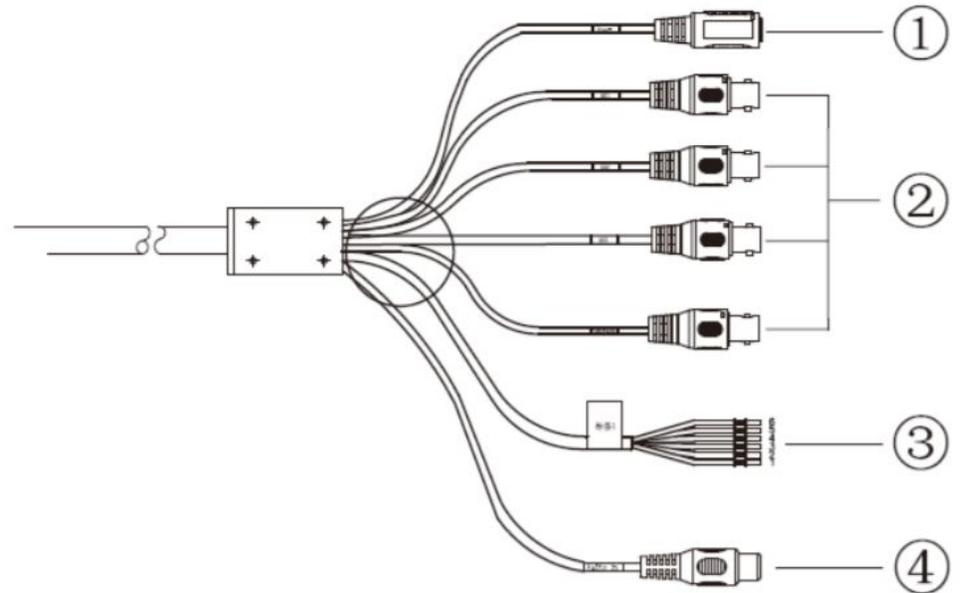4. Audio Input (RCA)



*Figure 1-1*

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## 2A. INSTALLATION STEPS

**Step 1** Place the installation map on the mounting surface in accordance to the camera position. Drill the holes and install the expansion screws. If necessary, drill a hole for the cable exit.

**Step 2** Thread the cables through the mounting surface if necessary or use the side exit routing on the base of the camera. Install the mounting screws through the camera base and into the expansion screws. See Figure 2-1.
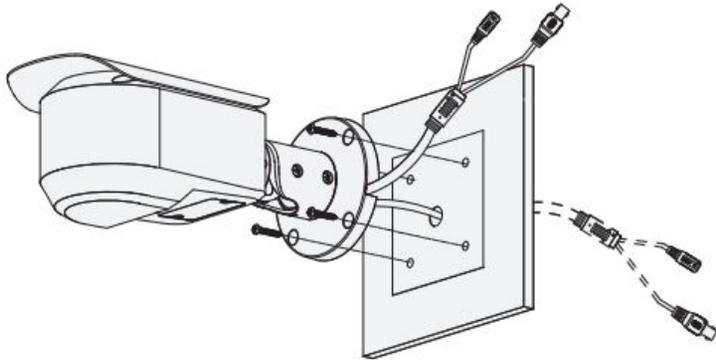


*Figure 2-2*

**Step 4** To rotate the camera body, loosen the tension screw as shown on Figure 2-3.



*Figure 2-1*

**Step 3** To swivel the camera body, loosen the tension screw on the base closest to the camera body. To rotate the camera from the base loosen the tension screw near the base of the camera shown on Figure 2-2. Tighten the tension screws when finished.
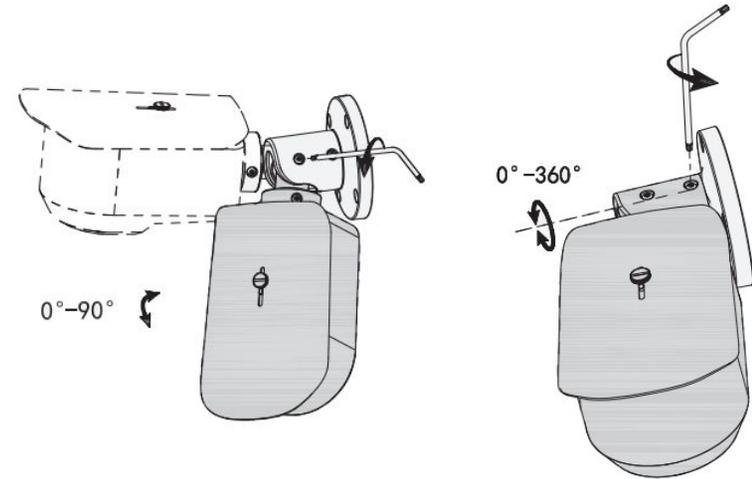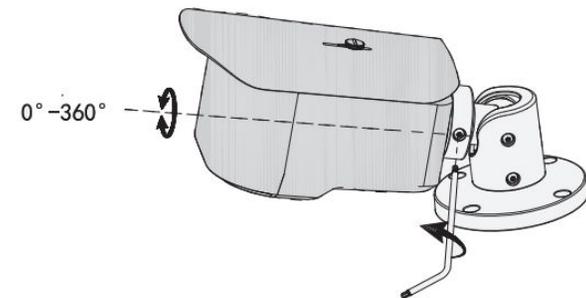


*Figure 2-3*

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**Sun Shield:** Loosen the top screw to slide the sun shield forward and back depending on the lighting requirements. See Figure 2-4.
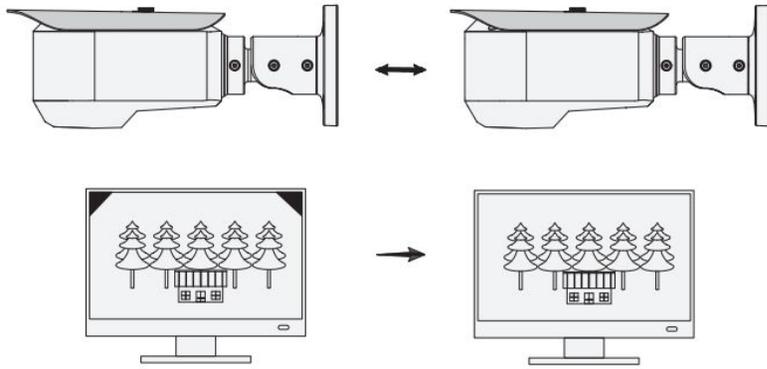


*Figure 2-4*

## 2B. OSD and Dip Switch

Locate the panel on the bottom of the camera as shown in Figure 2-6. Use the middle joystick to toggle and navigate through the OSD. A CVBS (standard definition) port is available as well as DIP switch configuration.
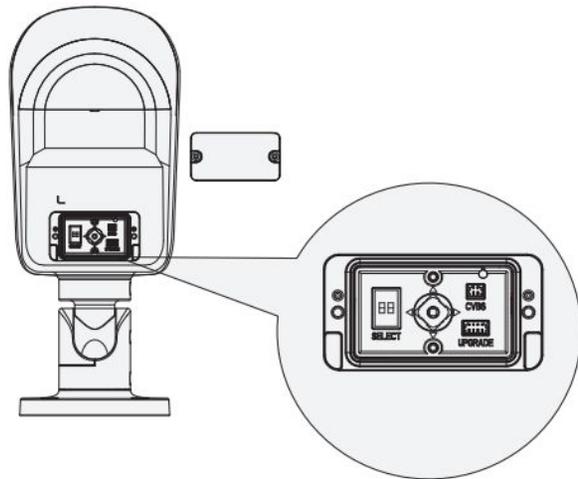


*Figure 2-5*

## 2C. Waterproofing Connectors

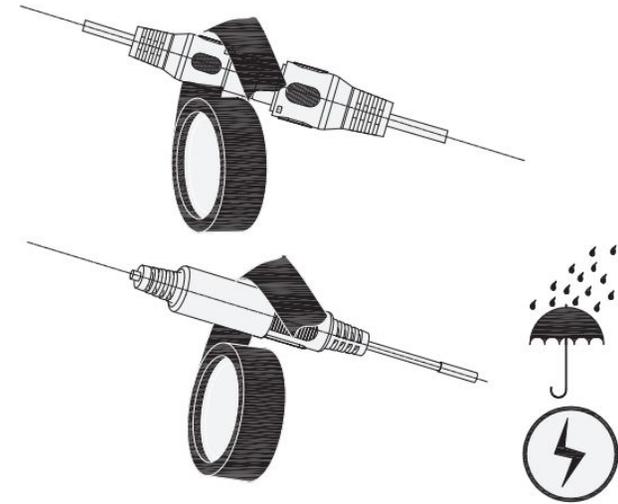For outdoor installations, waterproofing the connectors is necessary. See Figure 2-6.



*Figure 2-6*

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## 3A. DIP Switch Settings

| Dip Switch 1 | Dip Switch 2 | Output mode |
|---|---|---|
| OFF | OFF | AVS |
| ON | ON | CVBS/ SD |
| ON | OFF | AHD |
| OFF | ON | TVI |

## 3B. FAQ

| | |
|---|---|
| No image after the Device is powered on | • Check whether the power supply is properly connected.<br>• Check recorder video format and resolution compatibility with Camera<br>• Check whether the main power and transformer are working normally. |
| Image is black and white | • Use the required power supply.<br>• Check recorder compatibility with Camera video format |
| Cannot open/ control OSD through the recorder | • Ensure PTZ settings on Recorder is set to AVS protocol for that channel |
| Image is not stable | • Poor contact on circuits. Connect the cable properly. |
| Blurry image. | • Lens glass is dirty. Clean the lens.<br>• Focus is in manual mode. Set Focus settings. |

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