R5DHS 5MP HD-TVI Dome Camera Quick Installation Guide

The R5DHS HD-TVI dome cameras include a high sensitivity sensor with the ability to send HD video across standard coaxial cable. This camera features:

- 5 MP Megapixel High Performance CMOS 2592 (H) × 1944 (V)
- 65’ IR range
- 2.8 mm lens with an 102.94˚ field of view
- -22° ~ +131°F temperature range
- Compatible with R4, R8 and R16 Digital Video Recorder

What’s in the box
- Camera assembly
- Mounting hardware
- Security wrench
- Drill template
- This instruction guide

What you need
To install the camera, you will need:
- 12 Vdc power source. See Specifications for wattage requirement.
- Tools and additional fasteners (may be required) for mounting the camera
- Phillips #2 screwdriver
- Video and power extension cable
- Compatible Digital Video Recorder or HD-TVI video setup monitor (optional)

Installation
Before installation:
- Make sure that the device is in good condition and all the assembly parts are included.
- Check the specification of the products for the installation environment.
- Make sure that the wall or the ceiling is strong enough to withstand 3 times the weight of the camera.
- To avoid fire or shock hazard, use only UL listed power supplies. Verify that the power supply will provide the rated voltage and wattage for the camera. See the Specifications section.

During installation:
- Camera Lens: Handle the camera carefully to prevent scratching or soiling the lens. If the lens or IR array shield becomes soiled, clean it only with approved products. See the Cleaning section.
- Power supply Camera drop cable: The camera drop cable includes two connectors:
  - Video BNC connector: For transmission of the video signal across a coax (75 Ω) extension cable to an HD-TVI compatible recorder.
  - Power connector: When applying power, observe the power polarity. See the picture to the left for the connector polarity configuration.

Mounting the camera
A D5 camera can be mounted directly to a wall or ceiling. The surface should support at least three times the weight of the camera. The video and power drop cables from the camera can be routed either through mounting surface or through a cable channel in the mounting base.

1. Use the security wrench provided to loosen the dome-cover assembly screws, and then separate it from the mounting base.
2. Using the drill template provided, mark the location of the screws that anchor the mounting base to the mounting surface. If you are routing the drop cable through mounting surface, also mark the position of the hole for the drop cable.

3. Drill holes for the screws that anchor the base to the mounting surface. The mounting hardware provided is appropriate for most surfaces. However, depending on the surface materials, more appropriate fasteners may be required.

4. If routing the drop cable through the mounting surface, drill a 5/8” hole for the drop cable.

5. Route the drop cable through the hole in the mounting surface or through the cable channel in the mounting base, then attach the camera assembly to the surface using the appropriate fasteners.

6. Connect the camera drop cable to video and power extension cables. Drop cable connectors are not waterproof. Failure of the power or video connector due to moisture or another contaminant is considered an installation error, which voids the warranty. If installing this camera in a location such as an overhang, shop, garage, kitchen, etc. where high humidity or dust is present, seal these connections adequately.

7. Connect the other end of the video extension cable to an HD-TVI compatible video monitoring device or digital video recorder (DVR) such as the R4, R8 or R16 recorder.

8. Connect the other end of the power extension cable to a 12 Vdc power source. Observe the polarity of the cable shown in the photo on page 1 of this guide.

Camera adjustments
Adjust the pan, tilt and rotation to point your camera at your surveillance field of view.

1. Apply power to the camera.
2. Verify that video from the camera can be seen on the monitor.
3. **Pan Adjustment:** While observing video from the camera, turn the gimbal assembly to point the camera in the direction of your surveillance field of view.

4. **Tilt Adjustment:** While observing video from the camera, rotate the camera module around the pivot point to set the elevation of the video image.

5. **Rotation Adjustment:** While observing video from the camera, rotate the camera module on the gimbal to align the horizon in the video image.

6. Re-install the dome-cover assembly.

Camera configuration customization
For configuration and customization, refer to the User Manual for your camera or recorder.

Specifications

<table>
<thead>
<tr>
<th>Camera Model (SKU)</th>
<th>DS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/2.7” CMOS</td>
</tr>
<tr>
<td>Resolution</td>
<td>5MP: 2592 (H) × 1944 (V)</td>
</tr>
<tr>
<td>Video Output Termination</td>
<td>1-channel BNC video output</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>0.05 lux @ F1.0 (AGC ON)</td>
</tr>
<tr>
<td></td>
<td>0 lux with IR ON</td>
</tr>
<tr>
<td>IR Cut Filter</td>
<td>Yes, 850 nm</td>
</tr>
<tr>
<td>DVDR</td>
<td>Yes</td>
</tr>
<tr>
<td>WDNR</td>
<td>N/A</td>
</tr>
<tr>
<td>IR LEDS</td>
<td>18</td>
</tr>
<tr>
<td>Night Vision (IR range)</td>
<td>65 ft (20 m)</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 mm</td>
</tr>
<tr>
<td>Viewing Angle (degrees)</td>
<td>horizontal FOV 102.54°</td>
</tr>
<tr>
<td>Backlight Compensation</td>
<td>OFF (default)</td>
</tr>
<tr>
<td>Mechanical Zoom</td>
<td>Fixed-focus</td>
</tr>
<tr>
<td>Audio - Microphone</td>
<td>No</td>
</tr>
<tr>
<td>Audio Range (Mtrs)</td>
<td>N/A</td>
</tr>
<tr>
<td>On-screen display (OSD)</td>
<td>Yes</td>
</tr>
<tr>
<td>Operating Power</td>
<td>4 W max.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-22° ~ +131°F (~30° ~ +55° C)</td>
</tr>
</tbody>
</table>

Cleaning
Clean the camera dome with an approved glass cleaning solution and a lint free cloth.
- Dust can be removed from the unit by wiping it with a soft damp cloth. To remove stains, gently rub the surface with a soft cloth moistened with a mild detergent solution, then rinse and dry it with a soft cloth. Do not use benzene, thinner or other chemical products on the camera assembly; these may dissolve the paint and promote damage of the surfaces.
- Remove all foreign particles, such as plastic or rubber materials, attached to the camera housing. These may cause damage to the surface over time.