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HANWHA QNV-8020R

User Manual

HANWHA QNV-8020R 5 MP Network IR Vandal Resistant Dome Camera

Model: QNV-8020R

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the HANWHA QNV-8020R 5 MP Network IR Vandal Resistant Dome Camera. The QNV-8020R is an outdoor vandal-resistant dome network camera designed for robust surveillance applications.

Key features include a 5MP resolution, WiseStream II compression technology, H.265/H.264/MJPEG triple codec support, a 4mm lens, and integrated IR illumination for low-light conditions. It boasts an IP66 weather resistance rating and IK10 vandal resistance, making it suitable for challenging outdoor environments. Power can be supplied via Power over Ethernet (PoE) or 12VDC. Advanced functionalities include 120dB True WDR, Intelligent Video Analytics, Hallway View, one-way audio, and an SD card slot for local storage up to 128GB.

Please read this manual thoroughly before using the product to ensure proper and safe operation.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage.

- Ensure the power source matches the camera's requirements (PoE or 12VDC).
- Do not attempt to disassemble or modify the camera. Refer all servicing to qualified personnel.
- Avoid exposing the camera to extreme temperatures, humidity, or direct sunlight beyond its operating specifications.
- Install the camera securely to prevent it from falling.
- Keep the camera away from strong electromagnetic fields.
- Clean the camera with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

3. Package Contents

Verify that all items are present in the package before proceeding with installation:

- HANWHA QNV-8020R Dome Camera
- Mounting Template

- Mounting Screws and Anchors
- Installation Guide / Quick Start Guide
- Waterproof Cap (for network cable)
- L-wrench (if applicable for adjustment)



Figure 3.1: Front view of the HANWHA QNV-8020R Dome Camera.



Figure 3.2: Angled view of the HANWHA QNV-8020R Dome Camera, showing its compact design.



Figure 3.3: Example of an Ethernet cable, typically used for network connection and Power over Ethernet (PoE).

4. Setup and Installation

Follow these steps to properly install your QNV-8020R camera.

4.1. Site Selection

- Choose a location that provides the desired field of view and is within range of your network infrastructure.
- Consider the camera's IP66 and IK10 ratings for outdoor and vandal-prone areas.
- Ensure the mounting surface is strong enough to support the camera's weight.

4.2. Mounting the Camera

1. Use the provided mounting template to mark drill holes on the ceiling or wall.
2. Drill the marked holes and insert the appropriate anchors.

3. Route the necessary cables (Ethernet/power) through the mounting surface or conduit.
4. Secure the camera base to the mounting surface using the provided screws.
5. Adjust the camera's viewing angle and focus as needed.

4.3. Power and Network Connection

The QNV-8020R supports Power over Ethernet (PoE) or 12VDC power supply.

- **PoE Connection:** Connect an Ethernet cable from a PoE-enabled switch or injector to the camera's RJ45 port. This provides both power and network connectivity.
- **12VDC Connection:** If not using PoE, connect a 12VDC power adapter (not included) to the camera's power input port. Then, connect an Ethernet cable from your network to the camera's RJ45 port for data.
- Ensure all connections are secure and protected from environmental elements, especially for outdoor installations. Use the waterproof cap for the network cable if provided.

5. Operation

Once the camera is physically installed and connected, you can begin configuring and operating it.

5.1. Initial Access and Configuration

1. **Discover the Camera:** Use Hanwha's IP Installer or a similar network discovery tool to find the camera's IP address on your network.
2. **Access Web Interface:** Open a web browser and enter the camera's IP address. You will be prompted to log in.
3. **Set Up Password:** For first-time access, you will be required to set a strong password for the camera.
4. **Network Settings:** Configure network settings (e.g., static IP, DHCP) as per your network requirements.

5.2. Video and Image Settings

- **Resolution and Frame Rate:** Adjust video resolution up to 5MP and frame rate up to 30 fps.
- **Compression:** Utilize H.265, H.264, or MJPEG codecs. Enable WiseStream II for optimized bandwidth and storage efficiency.
- **WDR:** Enable 120dB True WDR for clear images in scenes with strong backlight or high contrast.
- **Day/Night Mode:** Configure the camera's IR cut filter and IR illuminators for optimal performance in varying light conditions.
- **Hallway View:** Optimize the aspect ratio for vertical scenes like corridors or hallways.

5.3. Recording and Storage

- **SD Card Recording:** Insert an SD/SDHC/SDXC card (up to 128GB) into the camera's slot for local recording. Configure recording schedules and event-triggered recording.
- **NVR/VMS Integration:** Connect the camera to a Network Video Recorder (NVR) or Video Management System (VMS) for centralized recording and management.

5.4. Intelligent Video Analytics

The QNV-8020R includes built-in Intelligent Video Analytics for enhanced surveillance capabilities:

- **Motion Detection:** Configure detection zones and sensitivity to trigger alerts or recordings upon movement.
- **Tampering Detection:** Receive alerts if the camera's view is obstructed or tampered with.
- Refer to the full software manual for detailed configuration of advanced analytics features.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning:** Periodically clean the camera lens and dome cover with a soft, lint-free cloth. For stubborn dirt, use a mild, non-abrasive cleaning solution. Do not spray cleaner directly onto the camera.
- **Firmware Updates:** Check the Hanwha Techwin website regularly for firmware updates. Keeping the firmware updated ensures access to the latest features, security patches, and performance improvements. Follow the instructions provided with the firmware update package carefully.
- **Cable Inspection:** Periodically inspect all cables for signs of wear, damage, or corrosion, especially for outdoor installations.
- **Environmental Check:** Ensure the camera's environment remains within its specified operating temperature and humidity ranges.

7. Troubleshooting

This section addresses common issues you might encounter with your QNV-8020R camera.

Problem	Possible Cause	Solution
No image/video feed.	No power. Network connection issue. Incorrect IP address.	Check power supply (PoE or 12VDC adapter). Verify Ethernet cable connection. Use IP Installer to find the correct IP address.
Poor image quality.	Dirty lens/dome. Incorrect video settings. Insufficient lighting.	Clean the lens and dome cover. Adjust resolution, WDR, and exposure settings in the web interface. Ensure IR illuminators are functioning in low light.
Cannot access web interface.	Incorrect IP address or network settings. Firewall blocking access. Browser compatibility.	Verify IP address and subnet mask. Temporarily disable firewall to test. Try a different web browser (e.g., Chrome, Firefox).
SD card recording issues.	SD card full or corrupted. Incorrect recording settings. Incompatible SD card.	Format the SD card via the camera's web interface. Check recording schedules and event triggers. Ensure the SD card is Class 10 or higher and up to 128GB.

If the problem persists after trying these solutions, please contact Hanwha Techwin support.

8. Specifications

Feature	Detail

Feature	Detail
Brand	HANWHA
Model Number	QNV-8020R
Effective Still Resolution	5 MP
Maximum Webcam Image Resolution	5 MP
Lens	4mm fixed lens
Frame Rate	30 fps
Video Capture Format	MJPEG, MP4 (H.265/H.264/MJPEG triple codec)
Compression Technology	WiseStream II
Wide Dynamic Range (WDR)	120dB True WDR
Low Light Technology	Day/Night (IR illumination)
Connectivity Technology	Wireless (Wi-Fi), Wired (Ethernet)
Connectivity Protocol	Wi-Fi
Power Source	Corded Electric (PoE/12VDC)
Voltage	12 Volts
International Protection Rating	IP66 (Weather Resistant)
Vandal Resistance	IK10
Indoor/Outdoor Usage	Outdoor
Form Factor	Dome
Mounting Type	Ceiling Mount
Special Feature	Motion Sensor, Intelligent Video Analytics, Hallway View, One-way audio
Storage	SD card slot (SD/SDHC/SDXC up to 128GB)
UPC	745559956650

9. Warranty and Support

Warranty Information: This product is covered by a manufacturer's limited warranty. Please refer to the warranty card included with your product or visit the official Hanwha Techwin website for detailed warranty terms and conditions specific to your region.

Technical Support: For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Hanwha Techwin customer support. Support contact information can typically be found on the official Hanwha Techwin website or in the product's packaging.

Online Resources: Visit the official Hanwha Techwin website (www.hanwhasecurity.com) for additional resources,

including updated manuals, firmware downloads, FAQs, and support forums.

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