HANWHA PNM-9030V

Hanwha Techwin PNM-9030V User Manual

15MP Multi-Sensor Panoramic Vandal Dome Camera

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Hanwha Techwin PNM-9030V 15MP Multi-Sensor Panoramic Vandal Dome Camera. Please read this manual thoroughly before using the product to ensure proper and safe operation.

The PNM-9030V is a high-performance multi-sensor camera designed for wide-area surveillance, offering a panoramic view with exceptional detail. Its robust, vandal-resistant, and weatherproof design makes it suitable for various indoor and outdoor environments.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury or damage to the product.

- **Installation:** Installation should only be performed by qualified personnel in accordance with all local electrical codes and regulations.

- **Power Source:** Use only the specified power source (PoE+). Ensure the power supply is stable and within the camera's operating voltage range.

- **Environment:** Do not expose the camera to extreme temperatures, humidity, or corrosive environments beyond its specified operating conditions (IP66, IK10).

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Avoid harsh chemicals or abrasive cleaners.

- **Disassembly:** Do not attempt to disassemble or modify the camera. This will void the warranty and may cause damage or injury.

3. WHAT'S IN THE BOX

Upon opening the package, verify that all components are present and undamaged.

Figure 3.1: Packaging for the Hanwha Techwin PNM-9030V camera, showing a white box with "Samsung by Hanwha PNM-9030V" printed on it.

- Hanwha Techwin PNM-9030V Camera Body
- Battery Pack

4. SETUP AND INSTALLATION

4.1. Mounting the Camera

1. **Select Location:** Choose a suitable mounting location that provides the desired panoramic view and is within reach of network and power connections. The camera is designed for wall mount.
2. **Prepare Surface:** Use the provided mounting template to mark drilling points on the wall or ceiling.
3. **Drill Holes:** Drill pilot holes for the mounting screws and insert wall anchors if necessary.
4. **Secure Camera:** Attach the camera base securely to the mounting surface using the provided screws.

4.2. Network and Power Connection

- Connect an Ethernet cable from your PoE+ enabled network switch or PoE+ injector to the camera's RJ45 port.
- Ensure the network connection is stable and provides sufficient bandwidth for video streaming.
- For initial setup, a direct connection to a PC might be required for IP address configuration.

4.3. Initial Configuration

- Access the camera's web interface using its default IP address or by using the Hanwha Device Manager software.
- Change the default administrator password immediately for security.
- Configure network settings (IP address, subnet mask, gateway, DNS).
- Adjust video settings, including resolution (Max. 15M (6096x2540@180°, 7744x1936@220°)), frame rate (Max. 30fps), and compression (H.265, H.264, MJPEG).
- Utilize the USB connector for easy setup with an optional Wi-Fi adapter if wireless configuration is preferred.

5. OPERATING THE CAMERA

5.1. Live View and Recording

- Access the live view through the web interface or compatible VMS (Video Management Software).

- The camera supports 180°/220° panoramic stitching image, as well as original and crop view channels.

- Configure recording schedules and destinations (e.g., network storage, micro SD/SDHC/SDXC 2 slots).

5.2. Smart Analytics Features

The PNM-9030V includes advanced intelligent video analytics:

- **Tampering Detection:** Alerts if the camera's view is obstructed or tampered with.

- **Loitering Detection:** Identifies individuals lingering in a defined area for an extended period.

- **Directional Detection:** Triggers an alarm when an object moves in a specified direction.

- **Virtual Line:** Detects objects crossing a virtual line.

- **Enter / Exit:** Monitors objects entering or exiting a defined zone.

- **(Dis)Appear:** Detects objects appearing or disappearing from a scene.

- **Audio Detection:** Triggers alerts based on sound levels or specific sound events.

- **Motion Detection:** Standard motion-based event triggering.

- **Handover:** Seamless tracking of objects across multiple cameras.

- **Sound Classification:** Identifies specific types of sounds.

- **Heatmap:** Visualizes areas of high activity.

Configure these features via the camera's web interface to suit your surveillance needs.

6. MAINTENANCE

6.1. Cleaning

- Regularly clean the camera lens and dome cover to ensure clear image quality.

- Use a soft, lint-free cloth dampened with water or a mild, non-abrasive cleaning solution.

- Do not spray cleaning solution directly onto the camera.

6.2. Firmware Updates

- Periodically check the Hanwha Techwin website for the latest firmware updates.

- Firmware updates can improve performance, add new features, and address security vulnerabilities.

- Follow the instructions provided with the firmware update package carefully.

6.3. System Checks

- Verify network connectivity and power supply regularly.

- Check recording status and storage capacity (micro SD cards).

- Ensure all configured analytics events are functioning as expected.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video output	No power; Network cable disconnected; Incorrect IP address	Check power supply (PoE+); Verify network cable connection; Confirm IP address and network settings.
Poor image quality	Dirty lens/dome; Incorrect focus/settings; Insufficient lighting	Clean lens/dome; Adjust video settings (resolution, exposure); Ensure adequate lighting.
Cannot access web interface	Incorrect IP address; Network firewall; Browser issues	Verify camera IP address; Check firewall settings; Try a different web browser.
Recording not working	SD card full/faulty; Network storage unavailable; Recording schedule incorrect	Check SD card status/replace; Verify network storage connection; Review recording schedule settings.

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

8. TECHNICAL SPECIFICATIONS

Feature	Detail
Model	PNM-9030V
Resolution	Max. 15M (6096x2540@180°, 7744x1936@220°)
Frame Rate	Max. 30fps at all resolutions (H.265/H.264)
Video Compression	H.265, H.264, MJPEG codec, WiseStream II supported
Storage	micro SD/SDHC/SDXC 2 slots
Power	PoE+
Ingress Protection	IP66 (Weatherproof)
Vandal Resistance	IK10
Dimensions	10 x 2 x 2.7 inches
Connectivity Technology	Wireless (via optional Wi-Fi adapter), Wired
Mounting Type	Wall Mount
Smart Analytics	Tampering, Loitering, Directional detection, Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Motion detection, Handover, Sound classification, Heatmap

9. WARRANTY AND SUPPORT

9.1. Warranty Information

Hanwha Techwin products are covered by a limited warranty. Please refer to the official Hanwha Techwin website or your purchase documentation for detailed warranty terms and conditions specific to the PNM-9030V model. Keep your proof of purchase for warranty claims.

9.2. Technical Support

For technical assistance, troubleshooting, or product inquiries, please contact Hanwha Techwin customer support through their official website or the contact information provided with your product. When contacting support, please have your product model number (PNM-9030V) and serial number ready.

Online Resources:

- Hanwha Techwin Official Website

- Support & Downloads