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> Hanwha Techwin XNP-6400RW 2MP Network 40x IR PTZ Camera Instruction Manual

HANWHA XNP-6400RW

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1. INTRODUCTION

This instruction manual provides comprehensive guidance for the Hanwha Techwin XNP-6400RW 2MP Network 40x IR PTZ Camera. This advanced surveillance camera is designed for outdoor use, offering high-resolution imaging, extensive zoom capabilities, and intelligent features for robust security monitoring. Please read this manual thoroughly before installation and operation to ensure proper use and optimal performance.



Figure 1: Front view of the Hanwha Techwin XNP-6400RW PTZ Camera, showcasing its dome design and integrated lens.

2. PRODUCT FEATURES

The Hanwha Techwin XNP-6400RW camera incorporates several key features for advanced surveillance:

- **High Resolution:** 2MP resolution at 60 frames per second (fps) for clear and detailed video.
- **Powerful Zoom:** 40X optical zoom lens (4.25mm ~ 170mm) with a wide field of view (65.66° ~ 1.88°).
- **Extended IR Range:** Infrared (IR) viewable length up to 200 meters (656 feet) for monitoring in complete darkness.
- **Wide Tilt Range:** Features a -20° tilt look-up capability, allowing the camera to see above the horizon.
- **Advanced Video Compression:** Supports H.265, H.264, and MJPEG triple codecs, along with WiseStream II for efficient data management.
- **Enhanced Imaging:** Day & Night (ICR) functionality, extreme Wide Dynamic Range (WDR), and Digital Image Stabilization (DIS) with a built-in Gyro sensor.
- **AI-based Analytics:** Includes AI-based Object Auto tracking (Person, Vehicle), target lock tracking, and intelligent video analytics.
- **Integrated Wiper:** Built-in wiper system to clear water or dust from the lens, complemented by a heater for perfect drying.
- **Robust Connectivity:** RJ45 connector for simplified installation with a single cable.
- **Cybersecurity:** Enhanced cybersecurity features for data protection.

3. WHAT'S IN THE BOX

Upon unpacking, please verify that all components are present:

- Hanwha Techwin XNP-6400RW PTZ Camera Unit
- User Guide (this document)

Note: Additional mounting hardware or power supplies may be sold separately depending on the specific package.

4. SETUP

4.1 Mounting the Camera

The XNP-6400RW camera is designed for outdoor installation and supports both wall mount and ceiling mount configurations. Ensure the mounting surface is sturdy enough to support the camera's weight and withstand environmental conditions.

1. **Select Location:** Choose a strategic location that provides the desired field of view and is within reach of power and network connections.
2. **Prepare Surface:** Drill necessary holes for the mounting bracket (not included, sold separately) according to the bracket's instructions.
3. **Secure Bracket:** Attach the mounting bracket securely to the wall or ceiling using appropriate fasteners.
4. **Attach Camera:** Mount the camera unit onto the secured bracket. Ensure all connections are made before final tightening.



Figure 2: Side view of the Hanwha Techwin XNP-6400RW PTZ Camera, illustrating its design for mounting.

4.2 Power Connection

The camera operates on a Corded Electric power source, requiring 24 Volts (DC). Connect the power cable to the camera's power input and then to a suitable power supply. Ensure the power supply meets the camera's voltage and current requirements.

4.3 Network Connection

The XNP-6400RW utilizes a single RJ45 connector for network connectivity, simplifying installation. It supports Wi-Fi connectivity protocol. Connect a standard Ethernet cable from the camera's RJ45 port to your network switch or router. Ensure your network is configured to provide an IP address to the camera.

4.4 Initial Configuration

After physical installation and connection, access the camera's web interface via a web browser using its assigned IP address. Refer to the separate network configuration guide for detailed steps on setting up network parameters, user accounts, and initial camera settings.

5. OPERATION

5.1 Pan, Tilt, and Zoom (PTZ) Control

The camera features Pan, Tilt, and Zoom capabilities, controlled via the network interface or a compatible DVR/NVR system. The 40X optical zoom allows for detailed observation of distant objects, while the -20° tilt look-up capability expands the vertical viewing range.

5.2 Image Settings

Adjust image settings such as brightness, contrast, and exposure through the camera's web interface. The camera automatically switches between Day and Night modes using its Infrared Cut-filter Removable (ICR) mechanism. Extreme WDR (Wide Dynamic Range) helps to capture clear images in scenes with both very bright and very dark areas.

5.3 Intelligent Video Analytics

The XNP-6400RW includes AI-based object auto-tracking for persons and vehicles. To utilize this feature:

1. **Enable Tracking:** Access the analytics settings in the camera's web interface.
2. **Define Zones:** Set up detection zones or lines as required for your monitoring area.
3. **Select Object Type:** Choose to track specific object types, such as 'Person' or 'Vehicle'.
4. **Activate Target Lock:** Use the target lock tracking feature to continuously follow a selected object.

The camera also supports motion-only alerts. Configure alert notifications and actions (e.g., recording, email alerts) within the system settings.

5.4 Video Recording

The camera supports H.265, H.264, and MJPEG video compression formats, optimized with WiseStream II for efficient storage. Configure recording schedules and storage destinations (e.g., NVR, NAS, local SD card if supported) through the camera's interface or connected recording device.

6. MAINTENANCE

6.1 Lens Cleaning

The XNP-6400RW features a built-in wiper to remove water and dust from the lens. This system automatically activates a heater to dry any remaining moisture, ensuring clear visibility. For manual cleaning, use a soft, lint-free cloth and a mild lens cleaning solution. Avoid abrasive materials that could scratch the lens.

6.2 Firmware Updates

Regularly check the Hanwha Techwin website for firmware updates. Keeping the camera's firmware up-to-date ensures optimal performance, security enhancements, and access to new features. Follow the provided instructions carefully when performing firmware updates.

6.3 Environmental Considerations

As an outdoor camera with an IP66 waterproof rating, the XNP-6400RW is designed to withstand harsh weather conditions. However, periodically inspect the camera housing and mounting for any signs of wear, damage, or loose connections. Ensure no obstructions are blocking the camera's view or the wiper mechanism.

7. TROUBLESHOOTING

If you encounter issues with your Hanwha Techwin XNP-6400RW camera, refer to the following common problems

and solutions:

- **No Power:**

- Check the power cable connection to the camera and the power source.
- Verify the power supply is providing 24V DC and is functioning correctly.

- **No Network Connection:**

- Ensure the RJ45 Ethernet cable is securely connected at both ends.
- Check network switch/router status and cable integrity.
- Verify the camera's IP address and network settings are correct.

- **Poor Image Quality:**

- Clean the camera lens using the built-in wiper or manually.
- Adjust image settings (focus, exposure, WDR) in the web interface.
- Ensure sufficient lighting in the scene, or that IR is functioning correctly in low light.

- **PTZ Not Responding:**

- Check network connection and camera status.
- Ensure the control software or DVR/NVR is properly configured for PTZ control.

- **AI Analytics Not Working:**

- Verify that AI analytics features are enabled in the camera's settings.
- Ensure detection zones are correctly defined and not obstructed.

For further assistance, consult the detailed troubleshooting section on the Hanwha Techwin support website or contact technical support.

8. SPECIFICATIONS

Feature	Specification
Model Name	XNP-6400RW
Brand	HANWHA
Manufacturer	Hanwha Techwin
Video Capture Resolution	1080p (2MP)
Frame Rate	60fps
Optical Zoom	40X (4.25mm ~ 170mm)
IR Viewable Length	200m (656ft)
Tilt Capability	-20° look-up
Video Codecs	H.265, H.264, MJPEG, WiseStream II
Special Features	Night Vision, PTZ Technology, Built-in Wiper, AI-based Object Auto Tracking, WDR, DIS

Feature	Specification
Indoor/Outdoor Usage	Outdoor
Waterproof Rating	IP66
Connectivity Technology	Wired (RJ45), Wi-Fi
Power Source	Corded Electric
Voltage	24 Volts (DC)
Mount Type	Wall Mount, Ceiling Mount
Item Dimensions	7.28 x 7.28 x 12.56 inches
Color	White, Black

9. WARRANTY AND SUPPORT

9.1 Product Warranty

For detailed information regarding the warranty coverage for your Hanwha Techwin XNP-6400RW camera, please refer to the official Hanwha Techwin website or the warranty card included with your purchase. Warranty terms and conditions may vary by region and retailer.

9.2 Technical Support

Should you require technical assistance, please contact Hanwha Techwin customer support. Support resources, including FAQs, software downloads, and contact information, are available on the official Hanwha Techwin website.

Manufacturer: Hanwha Techwin