HANWHA XNO-6120R

Hanwha Techwin XNO-6120R 2MP Outdoor Network Bullet Camera User Manual

Model: XNO-6120R

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Hanwha Techwin XNO-6120R 2MP Outdoor Network Bullet Camera. Designed for robust outdoor surveillance, this camera offers high-resolution imaging, advanced detection features, and reliable connectivity. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

Safety Information

Observe the following safety precautions to prevent injury or damage to the product.

- **Power Supply:** Use only the specified power supply (PoE, 24V AC, or 12V DC). Incorrect voltage may cause fire or electric shock.
- **Installation:** Ensure the camera is securely mounted to prevent it from falling. Professional installation is recommended for outdoor environments.
- **Water and Moisture:** The camera is rated IP66/IP67 and NEMA 4X for outdoor use, but avoid direct high-pressure water jets. Do not immerse the camera in water.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use strong detergents or abrasive cleaners.
- **Servicing:** Do not attempt to disassemble or repair the camera yourself. Refer all servicing to qualified personnel.
- **Cable Management:** Ensure all cables are properly secured and protected from environmental damage or tampering.

Package Contents

Verify that all items are present in the package:

- Hanwha Techwin XNO-6120R Network Bullet Camera
- Mounting Template
- Mounting Screws and Anchors

- Waterproof RJ45 Connector Kit
- Quick Start Guide
- Software CD (or link to download)

Product Overview

Familiarize yourself with the components of the XNO-6120R camera.



Figure 1: Frontal view of the XNO-6120R camera, showing the lens and integrated sun shield.



Figure 2: Angled view highlighting the adjustable mounting bracket and base for ceiling or wall installation.



Figure 3: Side profile of the camera, illustrating its compact bullet design and cable entry point.

Setup

Mounting

The XNO-6120R is designed for outdoor ceiling or wall mount installations. Ensure the mounting surface is strong enough to support the camera's weight.

1. **Select Location:** Choose a location that provides the desired field of view and is within reach of network and power cables.
2. **Use Template:** Place the provided mounting template on the desired surface and mark the drill holes.
3. **Drill Holes:** Drill pilot holes according to the template. Insert wall anchors if necessary.
4. **Secure Base:** Attach the camera's mounting base to the surface using the supplied screws.
5. **Adjust Angle:** Loosen the adjustment screws on the camera body to set the desired viewing angle, then tighten

securely.

Connectivity

The camera supports wired network connectivity via an RJ45 Ethernet cable.

- **Ethernet Connection:** Connect a standard RJ45 Ethernet cable from your network switch or router to the camera's RJ45 port. Use the waterproof connector kit for outdoor installations to ensure environmental protection.
- **Wi-Fi (Optional):** While primarily wired, the camera supports Wi-Fi for certain configurations. Refer to the advanced setup guide for wireless network integration.

Power Connection

The XNO-6120R can be powered via Power over Ethernet (PoE), 24V AC, or 12V DC.

- **PoE (Recommended):** If your network switch or NVR supports PoE, simply connect the Ethernet cable. Power will be supplied through the network cable, simplifying installation.
- **External Power:** If PoE is not available, connect a 24V AC or 12V DC power adapter (not included) to the camera's power input terminal. Ensure correct polarity for DC power.

Operating Instructions

Initial Configuration

After connecting the camera to your network and power, use the Hanwha Techwin Device Manager software (available on the included CD or Hanwha website) to discover and configure the camera. This software allows you to set network parameters, change default passwords, and perform initial setup.

Accessing Camera Feed

The live video feed can be accessed via a web browser (e.g., Internet Explorer, Chrome) by entering the camera's IP address, or through compatible Video Management Software (VMS) like Hanwha Wisenet WAVE.

Key Features

- **High Resolution:** Captures video at a maximum of 2 Megapixel (1920 x 1080) resolution, providing clear and detailed images.
- **Night Vision (IR):** Equipped with IR LEDs for clear imaging in low-light conditions, with a viewable length of up to 70m (229.66ft). Features Day & Night (ICR) functionality for automatic mode switching.
- **Optical Zoom:** Features a 5.2 ~ 62.4mm (Optical 12X) lens, allowing for detailed zoom without loss of image quality.
- **Motion Detection:** Configurable motion detection zones to trigger alerts or recording when movement is detected.
- **Advanced Analytics:** Includes Loitering, Directional detection, Fog Detection, Audio detection, Sound Classification, and Tampering detection for enhanced surveillance capabilities.
- **WDR (Wide Dynamic Range):** 150dB WDR ensures clear images in scenes with both very bright and very dark areas.
- **Hallway View:** Optimizes the aspect ratio for vertical scenes, such as corridors or hallways, maximizing surveillance efficiency.
- **WiseStreamII Support:** Advanced compression technology that dynamically controls encoding, reducing data size by up to 99% compared to current H.264 technology when combined with H.265.
- **Storage:** Supports SD / SDHC / SDXC cards with 2 slots (Max. 512GB) for on-board recording.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your camera.

- **Lens Cleaning:** Gently wipe the lens with a soft, lint-free cloth. For stubborn dirt, use a lens cleaning solution designed for optical surfaces. Do not use abrasive materials.
- **Housing Cleaning:** Clean the camera housing with a damp cloth. Avoid harsh chemicals.
- **Firmware Updates:** Periodically check the Hanwha Techwin website for firmware updates. Keeping the firmware updated ensures access to the latest features and security enhancements.
- **Cable Inspection:** Regularly inspect all cables for signs of wear, damage, or corrosion, especially in outdoor environments.
- **Environmental Checks:** Ensure that the camera's immediate environment remains clear of obstructions that could block the field of view or ventilation.

Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
No video feed	No power; Network cable disconnected; Incorrect IP address; Firewall blocking access.	Check power connection; Verify network cable is securely connected; Use Device Manager to find camera IP; Check firewall settings on PC/network.
Poor image quality	Dirty lens; Incorrect focus/zoom; Low light conditions; Network bandwidth issues.	Clean the lens; Adjust focus/zoom settings via web interface; Ensure adequate lighting or verify IR functionality; Check network load.
Motion detection not working	Detection zones not configured; Sensitivity too low; Firmware outdated.	Configure motion detection zones in camera settings; Increase sensitivity; Update camera firmware.
Cannot access camera via web browser	Incorrect IP address; Browser compatibility issue; Plugin not installed.	Verify camera IP address; Try a different browser (e.g., Internet Explorer for older plugins); Install necessary browser plugins or use a VMS.

Specifications

Detailed technical specifications for the Hanwha Techwin XNO-6120R camera.

Feature	Description
Model	XNO-6120R
Resolution	Max. 2 Megapixel (1920 x 1080)
Lens	5.2 ~ 62.4mm (Optical 12X)
Frame Rate	Max. 60fps@all resolutions (H.265 / H.264)
Video Codec	H.265, H.264, MJPEG
Day & Night	ICR (Infrared Cut Filter Removable)

Feature	Description
WDR	150dB
IR Viewable Length	70m (229.66ft)
Ingress Protection	IP67 / IP66, NEMA 4X
Vandal Resistance	IK10
Storage	SD / SDHC / SDXC 2 Slot (Max. 512GB)
Connectivity Technology	Wired (RJ45), Wi-Fi
Power Source	PoE, 24V AC, 12V DC
Audio	Bi-directional audio Support
Special Features	Motion Sensor, Night Vision, Hallway View, WiseStreamII, LDC (Lens Distortion Correction), Loitering, Directional detection, Fog Detection, Audio detection, Sound Classification, Tampering
Mounting Type	Ceiling Mount (also suitable for wall mount)
Manufacturer	Hanwha Techwin

Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official Hanwha Techwin website. Technical support is available through authorized distributors and the Hanwha Techwin support portal. Please have your model number (XNO-6120R) and serial number ready when contacting support.

Online Resources:

- Hanwha Techwin Official Website
- Hanwha Techwin Support Portal