

## Hanwha Vision ANO-L7012R

# Hanwha Vision ANO-L7012R 4MP IR Bullet Camera User Manual

Model: ANO-L7012R

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Hanwha Vision ANO-L7012R 4MP IR Bullet Camera. Please read this manual thoroughly before using the product to ensure correct usage and optimal performance. Keep this manual for future reference.

The Hanwha Vision ANO-L7012R is a compact 4MP IR bullet camera designed for reliable outdoor surveillance. Featuring a 3mm fixed lens with a 98.3° horizontal field of view, this camera captures sharp video at 2560x1440 resolution and 30fps. It includes intelligent motion detection, defocus, tampering, and directional detection capabilities. With a 20-meter IR range, H.265 compression, and IP66 weatherproof protection, this camera is suitable for high-performance surveillance installations.

## 2. SAFETY INFORMATION

- **Power Source:** Use only the specified power adapter or Power over Ethernet (PoE) compliant devices. Incorrect power sources can damage the camera and void the warranty.
- **Installation:** Installation should be performed by qualified personnel and comply with all local codes. Ensure the mounting surface can support the camera's weight.
- **Water and Moisture:** Although the camera is IP66-rated for outdoor use, avoid submerging it in water or exposing it to high-pressure water jets.
- **Cleaning:** Do not use liquid or aerosol cleaners. Use a soft, dry cloth for cleaning.
- **Operating Temperature:** Operate the camera within the specified temperature range to prevent malfunction.
- **Disassembly:** Do not attempt to disassemble or modify the camera. This will void the warranty and may cause damage.

## 3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Hanwha Vision ANO-L7012R 4MP IR Bullet Camera

- Instruction Manual
- Mounting Screws and Anchors (may vary by region)
- Waterproof Cap for Ethernet Cable (if applicable)

## 4. PRODUCT OVERVIEW

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The Hanwha Vision ANO-L7012R is a high-performance bullet-style network camera designed for robust surveillance applications.



*Figure 4.1: Hanwha Vision ANO-L7012R 4MP IR Bullet Camera. A white bullet-style security camera with a dark lens and a mounting base. The camera body has 'WISENET' printed on its side.*

### Key Features:

- **4MP Resolution:** Captures clear video at 2560x1440.
- **Fixed Lens:** 3mm lens with a 98.3° Horizontal Field of View (HFOV).
- **IR Night Vision:** Up to 20 meters (65.6ft) in low-light conditions.
- **Intelligent Analytics:** Motion detection, directional detection, tampering, and defocus detection.
- **Efficient Compression:** Supports H.265/H.264/MJPEG with WiseStream II for optimized bandwidth and storage.
- **Edge Storage:** MicroSD slot (up to 128GB) with SD encryption.
- **Weatherproof:** IP66-rated housing for outdoor durability.
- **Power over Ethernet (PoE):** Simplifies installation by providing power and data over a single cable.

## 5. SETUP AND INSTALLATION

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## 5.1 Mounting the Camera

1. **Select Location:** Choose a suitable indoor or outdoor location, typically a ceiling or wall, ensuring a clear field of view and access to network cabling.
2. **Prepare Surface:** Use the mounting template (if provided) to mark drill holes. Drill pilot holes for the mounting screws.
3. **Secure Base:** Attach the camera's mounting base securely to the surface using the provided screws and anchors.
4. **Adjust Angle:** Loosen the adjustment screws on the camera body to position the camera for the desired viewing angle. Tighten screws once adjusted.

## 5.2 Wiring and Network Connection

1. **Ethernet Connection:** Connect a standard Ethernet cable from your PoE-enabled network switch or injector to the camera's RJ45 port. If not using PoE, connect a separate 12V DC power adapter (not included) to the camera's power input.
2. **Waterproof Protection:** For outdoor installations, ensure the Ethernet cable connection is protected using the provided waterproof cap or appropriate sealing methods to maintain the IP66 rating.
3. **Network Configuration:** Once powered, the camera will obtain an IP address via DHCP (if available). Use the Hanwha Vision Device Manager software (available on the manufacturer's website) to discover the camera, change its default IP address, and configure network settings.
4. **Initial Login:** Access the camera's web interface using a web browser and its IP address. The default login credentials are typically provided in a separate quick start guide or on the camera itself. Change default passwords immediately for security.

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## 6. OPERATING THE CAMERA

### 6.1 Basic Operation

- **Live View:** Access the camera's web interface or a compatible Video Management System (VMS) to view live video streams.
- **Recording:** Configure recording settings via the web interface. Options include continuous recording, scheduled recording, and event-triggered recording (e.g., motion detection). Recordings can be stored on a microSD card (if installed) or a Network Video Recorder (NVR).
- **Night Vision:** The camera automatically switches to IR night vision mode in low-light conditions, providing clear black and white video up to 20 meters.

### 6.2 Advanced Features

- **Motion Detection:** Configure detection zones and sensitivity to trigger alarms or recordings when movement is detected.
- **Directional Detection:** Set up rules to detect objects moving in specific directions across a virtual line.
- **Tampering Detection:** Receive alerts if the camera's view is obstructed or if the camera is tampered with.
- **Defocus Detection:** Alerts if the image becomes out of focus, indicating a potential issue or tampering.
- **WiseStream II:** Enable this feature to dynamically control encoding, reducing bandwidth and storage requirements without compromising image quality.
- **MicroSD Card:** Insert a microSD card (up to 128GB) for local storage. Ensure SD encryption is enabled for data security.

## 7. MAINTENANCE

- **Cleaning:** Periodically clean the camera lens and housing with a soft, dry cloth to remove dust and dirt. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Regularly check the Hanwha Vision website for firmware updates. Keeping the firmware updated ensures optimal performance, security, and access to new features.
- **Cable Inspection:** Periodically inspect all cables for signs of wear or damage, especially in outdoor installations.
- **Configuration Backup:** Back up your camera's configuration settings regularly to easily restore them if needed.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Camera not turning on	Incorrect power source; PoE not active; faulty cable.	Verify power connection and source. Ensure PoE switch/injector is active. Check Ethernet cable for damage.
No video stream	Network connectivity issue; incorrect IP address; firewall blocking.	Check network cable. Verify camera's IP address. Ensure no firewall is blocking ports. Restart camera and network devices.
Poor image quality	Dirty lens; improper focus; low light conditions; network bandwidth issues.	Clean the lens. Check camera settings for focus (if adjustable) and exposure. Ensure sufficient lighting or proper IR function. Check network bandwidth.
Motion detection not working	Incorrect sensitivity settings; detection zones not configured; firmware issue.	Adjust motion detection sensitivity and configure detection zones in the web interface. Update firmware if available.

## 9. SPECIFICATIONS

Feature	Detail
Model Name	ANO-L7012R
Resolution	4MP (2560x1440)
Image Sensor	1/3" CMOS
Lens	3mm Fixed Lens
Horizontal Field of View (HFoV)	98.3°
Night Vision Range	20 meters (65.6ft) IR
Video Compression	H.265, H.264, MJPEG (with WiseStream II)

Feature	Detail
Wide Dynamic Range (WDR)	120dB
Storage	MicroSD slot (up to 128GB) with SD encryption
Ingress Protection (IP) Rating	IP66 (Weatherproof)
Power Source	PoE (Power over Ethernet)
Dimensions (L x W x H)	3.07 x 10.31 x 10.31 inches
Weight	0.86 lb
Connectivity Protocol	RTSP
Recommended Uses	Indoor Security, Outdoor Security



## 10. WARRANTY AND SUPPORT

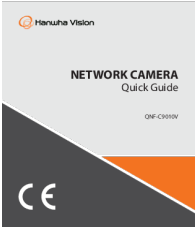
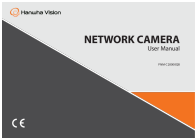

For warranty information, please refer to the warranty card included with your product or visit the official Hanwha Vision website.

For technical support, software downloads, and additional resources, please visit the Hanwha Vision support portal.

- **Official Website:** [www.hanwhavision.com](#) (Example link, actual link may vary)
- **Support:** Refer to the product packaging or official website for specific support contact details.

### Related Documents - ANO-L7012R

	<p><a href="#">Hanwha Vision ANE-L6012R/ANE-L7012R Network Camera User Manual</a></p> <p>User manual for Hanwha Vision ANE-L6012R and ANE-L7012R network cameras. Provides detailed instructions on installation, network setup, web viewer access, security features, and troubleshooting for optimal surveillance system performance.</p>
<p><a href="#">Preview</a></p>	<p><a href="#">Hanwha Vision AI Sound Classification &amp; Sound Direction Detection White Paper</a></p> <p>Explore Hanwha Vision's advanced AI audio analytics for security. This white paper details sound classification and direction detection technologies, offering practical guidance for implementation and optimal performance in diverse environments.</p>
	<p><a href="#">Hanwha Vision TNO-7180RLP Network Camera Quick Start Guide</a></p> <p>This quick start guide provides essential information for installing and setting up the Hanwha Vision TNO-7180RLP network camera, including safety precautions, component identification, installation steps, and initial configuration.</p>

	<p><a href="#">Hanwha Vision QNF-C9010V Network Camera Quick Guide</a></p> <p>This quick guide provides essential information for installing and setting up the Hanwha Vision QNF-C9010V network camera, including safety, components, installation steps, and initial configuration.</p>
	<p><a href="#">Hanwha Vision PNM-C20000QB Network Camera User Manual</a></p> <p>This user manual provides detailed instructions for the Hanwha Vision PNM-C20000QB Network Camera, covering installation, setup, network configuration, web viewer usage, and troubleshooting.</p>
	<p><a href="#">Hanwha Vision AI Cameras, NVRs, and Video Security Solutions Product Portfolio</a></p> <p>Comprehensive product catalog from Hanwha Vision, detailing AI cameras, Network Video Recorders (NVRs), and video security peripherals. Features include advanced analytics, cybersecurity, and detailed technical specifications for various models.</p>