

## HANWHA XNF-8010R

# Hanwha Techwin XNF-8010R 6MP Indoor Fisheye Camera User Manual

Model: XNF-8010R

## 1. INTRODUCTION

---

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Hanwha Techwin XNF-8010R 6MP Indoor Fisheye Camera. Please read this manual thoroughly before using the product and retain it for future reference.

The XNF-8010R is a high-performance 6-megapixel fisheye camera designed for indoor surveillance applications. It features a 1.6mm lens providing a 360° panoramic view, Wide Dynamic Range (WDR) for clear images in varying light conditions, and Power over Ethernet (PoE) for simplified installation.

## 2. SAFETY INFORMATION

---

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

- **Power Source:** Use only the specified power adapter (12VDC) or a compliant Power over Ethernet (PoE) source. Incorrect voltage may cause fire or electric shock.
- **Installation:** Ensure the camera is securely mounted to prevent it from falling. Installation should be performed by qualified personnel.
- **Environment:** This camera is designed for indoor use. Do not expose it to water, moisture, or extreme temperatures.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use strong detergents or solvents.
- **Disassembly:** Do not attempt to disassemble or modify the camera. This will void the warranty and may cause damage or injury.

## 3. PACKAGE CONTENTS

---

Verify that all components are present in the package before proceeding with installation.

- Hanwha Techwin XNF-8010R Fisheye Camera
- Mounting Plate

- Mounting Screws and Anchors
- Installation Guide (Quick Start Guide)
- Template for Drilling

## 4. PRODUCT OVERVIEW

---

The XNF-8010R features a compact dome design with a fisheye lens for wide-area coverage.



Figure 4.1: Front view of the Hanwha Techwin XNF-8010R Fisheye Camera, showing the dome and lens assembly.

### 4.1 Components

- **Dome Cover:** Protects the lens and internal components.
- **Fisheye Lens:** 1.6mm fixed lens providing a 360° field of view.
- **Status LED:** Indicates camera status (power, network activity).
- **Reset Button:** Used to restore factory default settings.
- **MicroSD Card Slot:** For local video storage.

- **Ethernet Port (RJ45):** For network connection and Power over Ethernet (PoE).
- **12VDC Power Input:** Alternative power connection.

## 5. SETUP

---

### 5.1 Mounting the Camera

1. **Select Location:** Choose a suitable indoor location, typically a ceiling, that provides the desired 360° coverage.
2. **Prepare Surface:** Use the provided drilling template to mark the screw holes on the mounting surface.
3. **Drill Holes:** Drill pilot holes for the mounting screws. Insert wall anchors if mounting into drywall or similar material.
4. **Attach Mounting Plate:** Secure the mounting plate to the surface using the provided screws.
5. **Connect Cables:** Route the Ethernet cable through the mounting plate opening. Connect the Ethernet cable to the camera's RJ45 port. If not using PoE, connect a 12VDC power adapter (sold separately) to the power input.
6. **Secure Camera:** Align the camera with the mounting plate and twist to lock it into place. Ensure it is firmly secured.



Figure 5.1: Illustration of the camera mounting process, including cable connection and securing the unit.

### 5.2 Network Connection and Initial Configuration

1. **Power On:** Once connected, the camera will power on. The Status LED will indicate its boot-up sequence.
2. **Discover Camera:** Use the Hanwha Techwin Device Manager software (available on the official Hanwha Techwin website) to discover the camera on your network.
3. **Assign IP Address:** Assign a static IP address or configure DHCP settings for the camera.
4. **Access Web Viewer:** Open a web browser and enter the camera's IP address to access its web interface.
5. **Login:** The default username is 'admin'. You will be prompted to set a strong password upon first login.
6. **Firmware Update:** Check for and install the latest firmware to ensure optimal performance and security.

## 6. OPERATING

---

### 6.1 Live View and Dewarping

The XNF-8010R provides a 360° fisheye view. The camera's web interface and compatible Video Management Software (VMS) offer dewarping functions to convert the fisheye image into more conventional views (e.g., panoramic, quad view, or specific region of interest).

- **Access Live View:** Navigate to the 'Live' tab in the camera's web interface.
- **Select View Mode:** Choose from various dewarping modes to suit your monitoring needs.
- **Digital PTZ:** In dewarped views, you can digitally pan, tilt, and zoom within the image.

### 6.2 Recording and Storage

The camera supports recording to a network video recorder (NVR) or to a local microSD card.

- **MicroSD Card:** Insert a compatible microSD card (up to 256GB, Class 10 or higher recommended) into the slot. Format the card via the camera's web interface.
- **Recording Settings:** Configure recording schedules, motion detection triggers, and pre/post-recording buffers in the 'Event' and 'Recording' settings.
- **Access Recorded Footage:** View recorded video through the camera's web interface or a connected NVR/VMS.

## 6.3 Advanced Features

- **WDR (Wide Dynamic Range):** Automatically adjusts image exposure to provide clear video in scenes with both very bright and very dark areas. Enable or disable this feature in the 'Video' settings.
- **Motion Detection:** Configure motion detection zones and sensitivity to trigger alarms or recordings.
- **Privacy Masking:** Define areas within the camera's view that should be permanently obscured for privacy reasons.

## 7. MAINTENANCE

### 7.1 Cleaning

Regular cleaning helps maintain optimal image quality.

- **Lens:** Gently wipe the lens with a soft, lint-free cloth. For stubborn smudges, use a lens cleaning solution specifically designed for optical surfaces.
- **Dome Cover:** Clean the dome cover with a soft, damp cloth. Avoid abrasive materials that could scratch the surface.

### 7.2 Firmware Updates

Periodically check the Hanwha Techwin website for firmware updates. Firmware updates often include performance improvements, new features, and security patches.

1. Download the latest firmware file from the official Hanwha Techwin support page for the XNF-8010R.
2. Access the camera's web interface and navigate to the 'System' or 'Maintenance' section.
3. Follow the on-screen instructions to upload and install the firmware. Do not power off the camera during the update process.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Camera not turning on	Incorrect power supply; Loose power connection; Faulty PoE switch/injector	Verify power source (12VDC or PoE) and connections. Test with a known good power source or PoE port.
Cannot access camera via network	Incorrect IP address; Network cable issue; Firewall blocking access	Check IP address settings. Ensure network cable is securely connected. Temporarily disable firewall for testing. Use Device Manager to locate camera.

Problem	Possible Cause	Solution
Poor image quality	Dirty lens/dome; Incorrect focus (though simple focus); Low light conditions; Incorrect video settings	Clean the lens and dome cover. Adjust video settings (e.g., WDR, brightness, contrast). Ensure adequate lighting.
Recording not working	MicroSD card full/faulty; Incorrect recording settings; NVR connection issue	Check microSD card status and format if necessary. Review recording schedules and event triggers. Verify NVR connection and configuration.

## 9. SPECIFICATIONS

Feature	Specification
Model	XNF-8010R
Image Sensor	1/1.8" CMOS
Resolution	2048x2048 (6MP)
Lens	1.6mm Fisheye (192°x192° view)
Frame Rate	Max. 30fps @ 2048x2048
WDR	120dB
Video Compression	H.265, H.264, MJPEG
Power	PoE (IEEE802.3af, Class3) or 12VDC
Power Consumption	Max 7.5W
Storage	MicroSD/SDHC/SDXC slot (Max. 256GB)
Connectivity	RJ45 Ethernet, Wi-Fi (for initial setup/management, not primary data stream)
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Dimensions (ØxH)	Approx. 140 x 50 mm (5.51 x 1.97 inches)
Weight	Approx. 600g (1.32 lbs)
Ingress Protection	IP54

## 10. WARRANTY AND SUPPORT

Hanwha Techwin products are covered by a limited warranty. Please refer to the official Hanwha Techwin website for detailed warranty terms and conditions specific to your region.

For technical support, software downloads (e.g., Device Manager, firmware), and additional documentation, visit the official Hanwha Techwin support portal:

- **Website:** [www.hanwhasecurity.com](http://www.hanwhasecurity.com)

- **Contact:** Refer to the 'Contact Us' section on the website for regional support numbers and email addresses.

No official product videos were found in the provided data for embedding in this manual.