

## HANWHA HCV-6070R

# Hanwha Techwin HCV-6070R 2MP Outdoor Vandal-Resistant Dome Camera User Manual

Model: HCV-6070R

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Hanwha Techwin HCV-6070R 2MP Outdoor Vandal-Resistant Dome Camera. This camera is designed for outdoor security surveillance, offering 2-megapixel resolution, a 2.8-12mm manual varifocal lens, and night vision capabilities with a BNC connection.



Figure 1: Hanwha Techwin HCV-6070R 2MP Outdoor Vandal-Resistant Dome Camera.

## SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the camera. Keep this manual for future reference.

- Ensure the power supply matches the camera's requirements to prevent electrical shock or fire.
- Do not expose the camera to extreme temperatures, humidity, or corrosive environments.
- Installation should be performed by qualified personnel in accordance with local electrical codes.
- Avoid direct exposure of the lens to strong light sources for extended periods.
- Do not attempt to disassemble or modify the camera. This will void the warranty.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- Hanwha Techwin HCV-6070R Dome Camera (1 unit)
- Mounting Screws and Anchors
- Installation Template
- Quick Start Guide
- Waterproof Cap (if applicable)

## SETUP

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### 1. Mounting the Camera

The HCV-6070R is designed for wall mounting. Choose a suitable outdoor location that provides the desired surveillance coverage and is protected from direct impact.

1. Use the provided installation template to mark the drilling holes on the wall.
2. Drill holes according to the template and insert the wall anchors.
3. Secure the camera base to the wall using the mounting screws.
4. Adjust the camera's viewing angle as needed before tightening all screws.

### 2. Wiring and Connections

The camera utilizes a BNC connection for video output and requires a separate power supply. Ensure all connections are secure and weatherproof for outdoor use.

- **Video Connection:** Connect a BNC cable from the camera's BNC port to the video input of your DVR (Digital Video Recorder).
- **Power Connection:** Connect a 12V DC power adapter (not included) to the camera's power input. The camera operates at 8 watts.
- **Wireless Connectivity:** The camera supports Wi-Fi for remote control and monitoring. Refer to the operating section for initial Wi-Fi setup.



Figure 2: Example of a BNC coaxial cable for video connection. Ensure a secure connection to the camera and DVR.

### 3. Initial Configuration

After physical installation and power-up, access the camera settings via your connected DVR or a compatible mobile application (Android controller type specified).

- Set the date and time.
- Configure network settings for Wi-Fi connectivity.
- Adjust video quality and recording preferences.

## OPERATING THE CAMERA

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### 1. Video Monitoring and Recording

The camera provides 2MP effective video resolution, capturing video at 1080p and a frame rate of 30 fps. Video is typically recorded in MPEG-4 format.

- Access live view and recorded footage through your connected DVR or the remote control application.
- Ensure your DVR is configured to record from the correct channel.

### 2. Adjusting Focus and Zoom

The HCV-6070R features a 2.8-12mm manual varifocal lens with optical zoom. Adjustments are made manually on the camera body.

1. Loosen the focus and zoom locking screws on the camera lens assembly.
2. Adjust the zoom ring to achieve the desired field of view.
3. Adjust the focus ring until the image is clear and sharp.
4. Tighten the locking screws to secure the settings.

### 3. Night Vision and Low Light Performance

Equipped with night vision and "Night Color" low light technology, the camera automatically switches to infrared mode in low light conditions to provide clear surveillance footage. The light source type is LED.

- Ensure no obstructions block the infrared LEDs on the camera.
- The camera will automatically activate its infrared illuminators when ambient light levels drop.

### 4. Motion Detection

The camera supports motion-only alerts. Configure motion detection zones and sensitivity settings through your DVR or the remote control application.

- Define specific areas within the camera's view for motion detection.
- Set the sensitivity level to minimize false alarms.
- Configure alert notifications (e.g., email, push notifications) via your DVR or application.

## 5. Remote Control

The camera can be controlled remotely using a compatible Android application. Ensure the camera is connected to your Wi-Fi network.

- Download and install the Hanwha Techwin mobile application on your Android device.
- Follow the in-app instructions to add and connect to your HCV-6070R camera.
- Through the app, you can view live footage, access recordings, and adjust certain camera settings.

## MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning the Lens:** Gently wipe the camera lens with a soft, clean, lint-free cloth. For stubborn dirt, use a lens cleaning solution specifically designed for optical surfaces.
- **Cleaning the Housing:** Clean the camera's exterior housing with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Periodically check all cables and connections for signs of wear, damage, or corrosion, especially for outdoor installations.
- **Firmware Updates:** Check the Hanwha Techwin website for any available firmware updates to ensure your camera has the latest features and security patches.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No video output	No power; Loose BNC connection; Incorrect DVR input selected.	Check power supply; Secure BNC cable; Select correct channel on DVR.
Fuzzy or blurry image	Lens out of focus; Dirty lens.	Manually adjust focus (refer to Operating section); Clean the lens.
Night vision not working	IR LEDs blocked; Insufficient power; Camera stuck in day mode.	Clear obstructions; Verify power supply; Restart camera.
Motion detection not triggering	Incorrect sensitivity settings; Motion detection zone not configured.	Adjust sensitivity; Configure motion detection zones in DVR/app.
Cannot connect via Wi-Fi	Incorrect Wi-Fi password; Camera out of range; Network issues.	Verify Wi-Fi credentials; Move camera closer to router; Check network status.

## SPECIFICATIONS

Model	HCV-6070R
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Brand	HANWHA Techwin
Effective Video Resolution	2 MP (1080p)
Frame Rate	30 fps
Lens Type	2.8-12mm Manual Varifocal Lens
Focus Type	Manual Focus
Zoom Type	Optical Zoom
Connectivity Technology	Wireless (Wi-Fi), BNC Connection
Power Source	Manual (requires external 12V DC power adapter)
Wattage	8 watts
Indoor/Outdoor Usage	Outdoor
Special Feature	Night Vision (Night Color low light technology)
Form Factor	Dome
Mounting Type	Wall Mount
Compatible Devices	DVR
Control Method	Remote (Android Controller Type)
International Protection Rating	IP54
Photo Sensor Technology	CMOS
Video Capture Format	MPEG-4
Alert Type	Motion Only

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Hanwha Techwin website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

**Manufacturer:** Hanwha

**Date First Available:** February 19, 2019

