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› [Hanwha Techwin HCO-6070R Analog Camera User Manual](#)

HANWHA HCO-6070R

Hanwha Techwin HCO-6070R Analog Camera User Manual

Model: HCO-6070R | Brand: HANWHA

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Hanwha Techwin HCO-6070R Analog Camera. The HCO-6070R is a Full HD (1080p) IR bullet camera designed for outdoor surveillance, featuring a 2.8 to 12mm manual focus varifocal lens, Wide Dynamic Range (WDR), and day/night functionality with IR illumination. Please read this manual thoroughly before using the product to ensure safe and correct usage.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the product.

- **Power Supply:** Use only the specified power supply (12V/24V AC/DC). Incorrect voltage may cause fire or electric shock.
- **Installation:** Installation should be performed by qualified personnel in accordance with all local electrical codes. Ensure the mounting surface can support the camera's weight.
- **Water and Moisture:** Do not expose the camera to water or moisture beyond its IP66 rating. Avoid direct exposure to heavy rain or submersion.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use strong detergents or abrasive cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Hanwha Techwin HCO-6070R Analog Camera

- User Guide (this manual)
- Mounting Screws and Anchors
- Installation Template

4. SETUP AND INSTALLATION

4.1 Physical Installation

The HCO-6070R is designed for outdoor ceiling mount installations. Ensure the mounting location provides a clear field of view and is protected from direct impact.

1. **Select Location:** Choose a suitable outdoor location, preferably under an overhang or eave for added protection, ensuring the camera's view is unobstructed.
2. **Mounting:** Use the provided installation template to mark drill holes. Secure the camera bracket firmly to the ceiling using the supplied screws and anchors.
3. **Adjust Angle:** Loosen the adjustment screws on the camera body to set the desired viewing angle. Tighten screws once the position is finalized.



Figure 4.1: Hanwha Techwin HCO-6070R Analog Bullet Camera. This image shows the side profile of the grey bullet camera with the 'wisenet' logo, illustrating its form factor suitable for outdoor mounting.

4.2 Power and Video Connection

Connect the camera to a compatible DVR system and power source.

1. **Power Connection:** Connect the 12V/24V AC/DC power adapter (not included) to the camera's power input.
2. **Video Output:** Connect the camera's BNC video output to an input channel on your DVR using a coaxial cable.
3. **RS-485 (Optional):** If using RS-485 control, connect the appropriate wires to your control system.



Figure 4.2: Example of a coaxial cable with BNC connectors. This cable type is typically used to transmit video signals from analog cameras to a DVR.

4.3 Lens Adjustment (Manual Focus Varifocal)

The HCO-6070R features a manual focus varifocal lens, allowing you to adjust the field of view and focus.

1. **Access Lens Controls:** Depending on the camera model, you may need to open a cover or access a control panel on the camera body.
2. **Adjust Zoom:** Rotate the zoom ring to achieve the desired field of view (between 2.8mm and 12mm).
3. **Adjust Focus:** Once the zoom is set, rotate the focus ring until the image on your monitor is clear and sharp.
4. **Secure Settings:** If applicable, tighten any locking screws to prevent accidental changes to zoom and focus.

5. OPERATION

5.1 Day/Night Functionality

The camera automatically switches between color (day) and black & white (night) modes based on ambient light levels. In low light conditions, the IR LEDs activate to provide illumination for clear night vision.

- **Day Mode:** Full color video.
- **Night Mode:** Black and white video with IR illumination for visibility up to 30m.
- **Low Light Technology:** Features like "Night Color" enhance image quality in challenging light.

5.2 Video Recording and Monitoring

Connect the camera to a compatible DVR for continuous recording and live monitoring. Refer to your DVR's manual for specific recording and playback instructions.

- **Resolution:** Records in Full HD 1080p resolution.
- **Frame Rate:** Captures video at 30 frames per second (FPS).
- **WDR (Wide Dynamic Range):** Improves image clarity in scenes with both very bright and very dark areas.
- **Motion Detection:** The camera supports motion detection, which can trigger recording or alerts on your DVR. Configure motion detection settings via your DVR interface.

6. MAINTENANCE

6.1 Cleaning the Camera

Regular cleaning helps maintain optimal image quality.

- **Lens:** Gently wipe the lens with a soft, lint-free cloth. For stubborn dirt, use a lens cleaning solution specifically designed for optical surfaces.
- **Body:** Wipe the camera body with a soft, damp cloth. Do not use harsh chemicals or abrasive materials.
- **Frequency:** Clean as needed, especially in dusty or high-traffic environments.

6.2 Environmental Considerations

The HCO-6070R is rated IP66 for outdoor use, meaning it is protected against dust ingress and powerful water jets. It also has an IK10 rating for vandal resistance. However, extreme conditions can still affect performance.

- **Temperature:** Ensure the camera operates within its specified temperature range.
- **Moisture:** While water-resistant, avoid prolonged exposure to standing water or direct high-pressure water streams.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on monitor/DVR	No power; Loose video cable; Incorrect input selected on DVR.	Check power connection; Secure video cable; Select correct input channel on DVR.
Image is blurry or out of focus	Lens focus not adjusted correctly.	Adjust the manual focus ring on the camera lens (refer to Section 4.3).
Poor image quality at night	IR LEDs obstructed; Insufficient IR range; Dirty lens.	Clear any obstructions; Ensure IR range is adequate for the scene; Clean the camera lens.
Image flickering or distorted	Power supply issues; Cable interference; Ground loop.	Verify stable power supply; Use shielded cables; Install a ground loop isolator if necessary.

8. SPECIFICATIONS

Feature	Detail
Model	HCO-6070R
Image Sensor	2 Megapixel
Video Resolution	1080p Full HD
Frame Rate	30 fps
Lens	2.8 to 12mm Manual Focus Varifocal
Day & Night	ICR (Infrared Cut Filter Removal)
Minimum Illumination	0.11Lux@F1.4(Color), 0Lux(B/W : IR LED on)
IR Viewable Length	30m
Wide Dynamic Range (WDR)	120dB
Noise Reduction	SSNRIII
Motion Detection	Supported
Material	Aluminum
Ingress Protection	IP66 (Outdoor rated)
Vandal Resistance	IK10
Power Source	12V/24V AC/DC (Dual Power)
Connectivity	Analog (Coaxial), RS-485
Video Transmission Distance	Max. 500m (via coaxial cable)
Dimensions (Approx.)	Refer to product diagram for exact measurements
Weight (Approx.)	Refer to product packaging

9. SUPPORT AND WARRANTY

For technical assistance, product inquiries, or warranty information, please contact Hanwha Techwin customer support or

visit their official website.

- **Official Website:** www.hanwhasecurity.com (or relevant regional site)
- **Warranty:** This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase or the official Hanwha Techwin website for detailed terms and conditions. Keep your proof of purchase for warranty claims.

