

HANWHA QND-6011

Hanwha Techwin QND-6011 Wisenet 2MP Network Super-Compact Dome Camera User Manual

Model: QND-6011 | Brand: HANWHA

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Hanwha Techwin QND-6011 Wisenet 2MP Network Super-Compact Dome Camera. The QND-6011 is a high-performance 2-megapixel network camera designed for indoor surveillance, offering clear imaging and advanced features in a compact form factor. It supports H.265/H.264/MJPEG codecs, features a built-in 2.8mm fixed lens, and includes WiseStream II compression technology for efficient data management.

Key features include 30fps at all resolutions, 120dB True WDR, IP42 and IK08 ratings for protection, and various detection functions such as defocus, motion, and tampering. The camera also supports Hallway View and includes a micro SD slot for local storage.

2. SAFETY INFORMATION

Please read these safety instructions carefully before operating the device to prevent injury to yourself or others and to avoid damage to the product. Keep this manual for future reference.

- **Power Supply:** Use only the specified power adapter (12VDC) or Power over Ethernet (PoE) compliant devices. Incorrect voltage may cause fire or electric shock.
- **Installation:** Ensure the camera is installed securely on a stable surface or ceiling to prevent it from falling. Installation should be performed by qualified personnel.
- **Environment:** This camera is designed for indoor use. Avoid exposing it to extreme temperatures, humidity, dust, or direct sunlight.
- **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:

- Hanwha Techwin QND-6011 Dome Camera
- Installation Guide / Quick Start Guide
- Mounting Screws and Anchors
- Template for Installation

Note: Specific accessories may vary. Please refer to the packaging for an exact list.

4. PRODUCT OVERVIEW

The QND-6011 is a compact dome camera featuring a robust design suitable for various indoor surveillance applications. Below is an image illustrating the camera's general appearance.



Figure 4.1: Front view of the Hanwha Techwin QND-6011 Wisenet 2MP Network Super-Compact Dome Camera. The image shows the white dome housing with the 'Wisenet' logo and the dark lens assembly visible through the clear dome cover.

4.1. Components

- **Dome Cover:** Protects the lens and internal components.
- **Lens:** Built-in 2.8mm fixed lens for wide-angle viewing.
- **Main Body:** Houses the camera's electronics and mounting points.
- **Network Port (RJ45):** For Ethernet connection and Power over Ethernet (PoE).
- **Power Input:** 12VDC terminal (if not using PoE).
- **Micro SD Card Slot:** For local video storage (up to 128GB).

5. SETUP

5.1. Physical Installation

1. **Choose a Location:** Select an indoor location that provides the desired viewing angle and is within reach of network cabling. Ensure the mounting surface is strong enough to support the camera.
2. **Prepare the Mounting Surface:** Use the provided mounting template to mark drill holes on the ceiling or wall. Drill pilot holes as indicated.
3. **Secure the Camera:** Attach the camera's main body to the mounting surface using the supplied screws and anchors. Ensure it is firmly secured.
4. **Connect Cables:**
 - **Network Cable:** Connect an Ethernet cable from your network switch (preferably PoE-enabled) to the camera's RJ45 port.
 - **Power Cable (Optional):** If not using PoE, connect a 12VDC power adapter to the camera's power input terminal.
5. **Insert Micro SD Card (Optional):** If local storage is desired, carefully insert a micro SD card (up to 128GB) into the designated slot.
6. **Adjust Viewing Angle:** Loosen the adjustment screws (if applicable) to position the lens for the desired field of view. Tighten the screws once adjusted.
7. **Attach Dome Cover:** Securely fasten the dome cover onto the camera body.

5.2. Network Configuration

1. **Power On:** Once connected, the camera will power on. Allow a few minutes for it to boot up.
2. **Discover Camera:** Use the Hanwha Techwin Device Manager software (available on the Hanwha Techwin website) to discover the camera on your network.
3. **Initial Login:** The default username is typically 'admin'. You will be prompted to set a strong password upon first access.
4. **Configure IP Address:** Assign a static IP address or ensure DHCP is configured correctly for your network environment.
5. **Access Web Viewer:** Open a web browser (e.g., Chrome, Firefox) and enter the camera's IP address to access its web interface.

6. OPERATING THE CAMERA

6.1. Live View

After logging into the web interface, you will typically see the live video feed. From here, you can:

- Monitor real-time video.
- Adjust image settings (brightness, contrast, sharpness).
- Switch between different streaming profiles (e.g., H.265, H.264).

6.2. Recording Settings

Configure how and when the camera records video:

- **Continuous Recording:** Set schedules for constant recording to the micro SD card or a Network Video

Recorder (NVR).

- **Event Recording:** Configure recording to trigger based on specific events like motion detection, tampering, or defocus detection.
- **Pre/Post-Event Recording:** Adjust the duration of video recorded before and after an event.

6.3. Event Detection

The QND-6011 offers several intelligent detection features:

- **Motion Detection:** Define areas within the camera's view where movement will trigger an alert or recording. Adjust sensitivity as needed.
- **Tampering Detection:** Alerts if the camera's view is obstructed or if the camera is moved.
- **Defocus Detection:** Notifies if the image becomes out of focus.
- **People Counting:** Utilize this feature for business intelligence, typically configured via the camera's advanced settings.

6.4. Advanced Features

- **WiseStream II:** Hanwha's compression technology that dynamically controls encoding, reducing data size by up to 99% without compromising image quality.
- **WDR (Wide Dynamic Range):** Enhances image clarity in scenes with both very bright and very dark areas.
- **Hallway View:** Optimizes the image for vertically oriented areas like corridors, maximizing efficiency by rotating the image 90 degrees.
- **LDC (Lens Distortion Correction):** Corrects image distortion that can occur with wide-angle lenses.

7. MAINTENANCE

7.1. Cleaning

Regular cleaning helps maintain optimal image quality:

- Gently wipe the dome cover with a soft, lint-free cloth.
- For stubborn smudges, use a cloth lightly dampened with water or a mild, non-abrasive lens cleaning solution.
- Do not use harsh chemicals, solvents, or abrasive materials, as these can scratch or damage the dome.

7.2. Firmware Updates

Periodically check the Hanwha Techwin website for firmware updates. Firmware updates can provide new features, improve performance, and enhance security. Follow the instructions provided with the firmware update package carefully.

7.3. SD Card Management

If using a micro SD card for storage, regularly check its status via the camera's web interface. Format the card periodically to maintain performance and prevent data corruption. Replace the card if errors occur or if its lifespan is reached.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No power / Camera not turning on	No power supply; Faulty power adapter/PoE switch; Loose connection.	Check power source and connections. Ensure PoE switch is active or 12VDC adapter is functioning.
No video / Cannot access camera via network	Network cable disconnected; Incorrect IP address; Network conflict; Firewall blocking access.	Verify network cable connection. Check IP address settings. Ensure no IP conflicts. Temporarily disable firewall for testing.
Poor image quality / Blurry video	Dirty dome cover/lens; Incorrect focus (if adjustable); Low light conditions; Network bandwidth issues.	Clean the dome cover and lens. Adjust image settings in the web interface. Ensure sufficient lighting. Check network bandwidth.
Recording not working	SD card full/faulty; Recording schedule not set; NVR connection issue.	Check SD card status and format if necessary. Verify recording schedules. Ensure NVR is properly connected and configured.

If you encounter issues not listed here or require further assistance, please contact Hanwha Techwin technical support.

9. SPECIFICATIONS

Below are the key technical specifications for the Hanwha Techwin QND-6011 camera:

Feature	Detail
Model Number	QND-6011
Image Sensor	1/2.8" 2MP CMOS
Resolution	2 Megapixel (2MP)
Frame Rate	30fps @ all resolutions
Lens	Built-in 2.8mm Fixed Lens
Video Compression	H.265, H.264, MJPEG (WiseStream II support)
Wide Dynamic Range (WDR)	120dB
Day & Night	ICR (Infrared Cut filter Removal)
Storage	Micro SD/SDHC/SDXC slot (up to 128GB)
Power	PoE (Power over Ethernet) / 12VDC
Power Consumption	2.8 watts
Environmental Protection	IP42 (Dust and water splash resistant)
Vandal Resistance	IK08 (Impact resistant)
Dimensions	Approximately 10 x 2 x 2.7 inches (Item Dimensions from product data)

Feature	Detail
Connectivity Technology	Ethernet
Special Features	Defocus detection, Motion detection, Tampering detection, People counting, Hallway View, LDC support

10. 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 the Hanwha Techwin customer service channels, which typically include phone support, email, and online resources.

When contacting support, please have your camera's model number (QND-6011) and serial number ready.