

Hiwatch HWT-T140-M

Hiwatch HWT-T140-M Dome Camera Instruction Manual

Model: HWT-T140-M

		Introduction	Safety Information	Package Contents	Product	
Overview	Setup	Operating	Maintenance	Troubleshooting	Specifications	Warranty & Support

1. INTRODUCTION

This instruction manual provides detailed information on the installation, operation, and maintenance of your Hiwatch HWT-T140-M Dome Camera. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage. Keep this manual for future reference.

2. SAFETY INFORMATION

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

- **Power Supply:** Use only the specified power adapter. Ensure the power source is stable and within the camera's voltage requirements.
- **Installation:** Installation should be performed by qualified personnel. Ensure the mounting surface is strong enough to support the camera.
- **Environment:** The camera is designed for outdoor use with an IP66 rating, protecting it from dust and strong jets of water. Avoid exposing the camera to extreme temperatures, corrosive environments, or direct lightning strikes.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use strong detergents or abrasive materials.
- **Disassembly:** Do not attempt to disassemble or modify the camera. This will void the warranty and may cause damage.

3. PACKAGE CONTENTS

Please check the package contents upon unpacking. If any items are missing or damaged, contact your retailer immediately.

- Hiwatch HWT-T140-M Dome Camera
- Mounting Screws and Wall Plugs
- Quick Start Guide (or similar documentation)

- Drill Template (if applicable)
- Power Adapter (may be sold separately depending on region/kit)

4. PRODUCT OVERVIEW

The Hiwatch HWT-T140-M is a high-performance 4MP dome camera from the HIKVISION HIWATCH series, designed for robust outdoor surveillance. It features advanced imaging capabilities and versatile connectivity.



Figure 4.1: Front view of the Hiwatch HWT-T140-M Dome Camera, showing the dome housing and lens. This camera is designed for discreet and durable outdoor surveillance.

Key Features:

- **High Resolution:** 4 Megapixel (2560 x 1440) CMOS sensor for clear and detailed images.
- **Fixed Lens:** Equipped with a 2.8 mm fixed lens, providing a wide field of view suitable for general surveillance.
- **4-in-1 Video Output:** Supports HDTVI, HDCVI, AHD, and CVBS (analog) video formats, allowing compatibility with various DVR systems.
- **EXIR 2.0 IR Technology:** Advanced infrared illumination with a range of up to 20 meters for excellent night vision performance, even in complete darkness (0 lux).
- **Digital Noise Reduction (2DNR):** Reduces image noise for cleaner video.
- **IR Cut Filter:** Automatically switches between day and night modes for optimal image quality.
- **OSD Menu:** On-Screen Display menu accessible remotely via DVR for easy configuration of camera settings.
- **Outdoor Ready:** IP66 rated for protection against dust and water ingress, suitable for outdoor installation.

5. SETUP

5.1 Mounting the Camera

1. **Choose a Location:** Select a suitable outdoor location that provides the desired viewing angle and is within range of your power and video cables. Ensure the mounting surface is sturdy.
2. **Drill Holes:** Use the provided drill template (if available) to mark and drill holes for mounting screws.
3. **Secure the Base:** Attach the camera's base securely to the mounting surface using the provided screws and wall plugs.
4. **Adjust Angle:** Loosen the adjustment screws on the dome to position the camera lens to the desired angle. Tighten the screws once the angle is set.

5.2 Wiring Connections

Connect the camera to your DVR and power supply:

- **Video Output:** Connect the BNC video output cable from the camera to a video input port on your compatible DVR (HDTVI, HDCVI, AHD, or CVBS). Ensure the DVR supports the selected video format.
- **Power Supply:** Connect the camera's power input to a suitable 12V DC power adapter (not always included). Ensure the power adapter meets the camera's power requirements.

5.3 Initial Configuration

The camera's video format (HDTVI, HDCVI, AHD, CVBS) can typically be switched using a physical switch on the camera cable or via the OSD menu. Refer to your DVR's manual for accessing the camera's OSD menu for advanced settings.

6. OPERATING THE CAMERA

Once the camera is properly installed and connected to your DVR, you can begin operation:

- **Live View:** Access the live video feed from the camera through your DVR's interface or connected monitor.
- **Recording:** Configure recording schedules and motion detection settings on your DVR to capture video footage.
- **OSD Menu Access:** Most compatible DVRs allow you to access the camera's On-Screen Display (OSD) menu remotely via the coaxial cable. This menu provides options for adjusting image settings (brightness, contrast, saturation), exposure, white balance, and other advanced features. Navigate the OSD menu using the DVR's controls.

7. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your camera:

- **Cleaning the Lens and Housing:** Periodically clean the camera's dome and lens with a soft, lint-free cloth. For stubborn dirt, use a mild glass cleaner applied to the cloth (not directly to the camera). Ensure no moisture enters the camera.
- **Cable Inspection:** Regularly inspect all cables for signs of wear, damage, or corrosion, especially for outdoor installations. Replace damaged cables promptly.
- **Firmware Updates:** Check the manufacturer's website (Hiwatch or HIKVISION) for any available firmware updates for your camera model. Firmware updates can improve performance, add features, or fix bugs. Follow the update instructions carefully.

8. TROUBLESHOOTING

If you encounter issues with your Hiwatch HWT-T140-M camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on monitor/DVR	No power; Incorrect video format; Loose cable connection; Faulty cable/DVR input.	Check power supply; Verify camera's video format matches DVR input; Secure all cable connections; Test with different cables/DVR input if possible.
Poor image quality (blurry, distorted)	Dirty lens; Incorrect focus (if adjustable); Interference; Low light conditions.	Clean the lens; Adjust camera angle; Check for strong electromagnetic interference; Ensure adequate lighting or proper IR function.
IR not working at night	Insufficient power; IR sensor blocked; Faulty IR LEDs.	Ensure stable power supply; Check for obstructions near the IR LEDs; Contact support if IR LEDs appear faulty.

Problem	Possible Cause	Solution
OSD menu not accessible	DVR incompatibility; Incorrect connection.	Ensure your DVR supports OSD control over coaxial cable; Check video cable connection.

If the problem persists after trying these solutions, please contact your retailer or the manufacturer's technical support.

9. SPECIFICATIONS

Model Number	HWT-T140-M
Manufacturer	HIWATCH (HIKVISION)
Image Sensor	High-performance CMOS
Resolution	4 MP (2560 x 1440)
Lens	2.8 mm Fixed Lens
IR Range	Up to 20 meters (EXIR 2.0)
Minimum Illumination	0 Lux with IR
Video Output	4-in-1 (HDTVI / HDCVI / AHD / CVBS)
Digital Noise Reduction	2DNR
Ingress Protection	IP66 (Dust and Water Resistant)
Form Factor	Dome
Usage Environment	Outdoor

10. WARRANTY AND SUPPORT

Warranty Information: Specific warranty terms and conditions for the Hiwatch HWT-T140-M camera may vary by region and retailer. Please refer to the warranty card included with your product or contact your point of purchase for detailed warranty information.

Technical Support: For technical assistance, troubleshooting beyond this manual, or inquiries regarding spare parts, please contact the retailer where you purchased the product or visit the official Hiwatch/HIKVISION support website for contact details and resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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