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Hikvision HWT-T150-M(2.8mm)

Hikvision 4-in-1 5MPX Dome Surveillance Camera User Manual

Model: HWT-T150-M

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Hikvision 4-in-1 5MPX Dome Surveillance Camera (Model: HWT-T150-M). Please read this manual thoroughly before using the product to ensure proper functionality and safety. Keep this manual for future reference.

2. Product Overview

The Hikvision HWT-T150-M is a high-performance 5-megapixel dome camera designed for both indoor and outdoor surveillance. It features 4-in-1 hybrid technology, supporting HDCVI, HDTVI, AHD, and CVBS (960H) video formats, making it compatible with a wide range of DVRs. Its robust metal construction and IP66 rating ensure durability in various environmental conditions. The camera includes infrared illumination for clear night vision up to 20 meters.



Figure 2.1: Front view of the Hikvision 4-in-1 5MPX Dome Surveillance Camera, showing its white metal casing and the central lens.

3. Key Features

- **High Resolution:** 5 Megapixel PRO high-performance CMOS sensor for clear imaging.
- **Video Output:** HD+ video resolution (2560x1944p).
- **Versatile Compatibility:** 4-in-1 video output (TVI/AHD/CVI/CVBS) for broad DVR compatibility.
- **Fixed Lens:** 2.8 mm fixed optic, providing a wide 110° viewing angle.
- **Night Vision:** Smart IR technology with an effective night vision range of up to 20 meters.
- **OSD Menu:** On-Screen Display menu with adjustable functions including ATW, AWB, AGC, BLC, HLC, D-WDR, brightness, sharpness, and mirror.
- **Durable Construction:** White metal dome structure.
- **Weatherproof:** IP66 resistance rating for outdoor use.
- **Installation:** Designed for ceiling or wall mounting.
- **Power:** Operates on DC12V power supply.

4. Specifications

Feature	Detail
Model Number	HWT-T150-M(2.8mm)
Image Sensor	5 Mpx PRO high-performance CMOS
Video Resolution	HD+ (2560x1944p)
Lens	2.8 mm fixed optic (110° viewing angle)
Night Vision Range	Up to 20 meters (Smart IR)
Video Output Modes	TVI/AHD/CVI/CVBS (4-in-1)
Ingress Protection	IP66 (Dust tight and protected against powerful water jets)
Material	Metal
Power Supply	DC12V
Power Consumption	4 Watts
Dimensions (Package)	11.4 x 11.2 x 8.8 cm
Weight (Package)	300 grams
Mounting Type	Ceiling or Wall Mount
Operating Environment	Outdoor

5. Setup and Installation

5.1 Package Contents

Verify that all components are present:

- Hikvision HWT-T150-M Dome Camera
- Mounting Screws and Plugs (typically included, though not explicitly listed)
- User Manual (this document)

5.2 Mounting the Camera

1. **Choose a Location:** Select a suitable ceiling or wall location that provides the desired viewing angle and is within

reach of power and video cables. Ensure the surface is strong enough to support the camera.

2. **Mark Drilling Points:** Use the camera's base as a template to mark the drilling points for the mounting screws.
3. **Drill Holes:** Drill pilot holes at the marked points. Insert wall plugs if mounting on masonry or drywall.
4. **Secure the Camera:** Route the necessary cables (power and video) through the mounting surface or cable entry point on the camera. Align the camera with the drilled holes and secure it firmly using the provided screws.

5.3 Wiring Connections

Connect the camera to your Digital Video Recorder (DVR) and power supply:

- **Video Output:** Connect the camera's BNC video output cable to an available video input port on your DVR.
- **Power Supply:** Connect a DC12V power adapter (not included) to the camera's power input port. Ensure the power supply meets the camera's requirements (12V, 4W).

5.4 Switching Video Modes (4-in-1 Technology)

The camera supports HDCVI, HDTVI, AHD, and CVBS video formats. To switch between these modes:

- Locate the small button on the camera's cable or body (refer to product diagram if available).
- With the camera powered on, **press and hold this button for approximately 5 seconds** The video output will cycle through the available formats (TVI, AHD, CVI, CVBS).
- Release the button when the desired video format is displayed on your monitor/DVR.
- *Note:* Ensure your DVR supports the selected video format for proper image display.

6. Operating the Camera

6.1 Basic Operation

Once connected to a compatible DVR and powered on, the camera will automatically begin transmitting video. You can view the live feed and recorded footage through your DVR's interface.

6.2 OSD Menu Navigation

The camera features an On-Screen Display (OSD) menu for advanced settings. Accessing and navigating the OSD menu typically requires a DVR with UTC (Up The Coax) control capabilities or a dedicated OSD controller.
Common OSD Menu Functions:

- **ATW (Auto Tracking White Balance):** Automatically adjusts color balance based on lighting conditions.
- **AWB (Auto White Balance):** Similar to ATW, ensures accurate color reproduction.
- **AGC (Auto Gain Control):** Boosts the video signal in low-light conditions.
- **BLC (Backlight Compensation):** Improves visibility of objects in front of a bright background.
- **HLC (Highlight Compensation):** Reduces the intensity of bright light sources (e.g., headlights) to prevent overexposure.
- **D-WDR (Digital Wide Dynamic Range):** Enhances image quality in scenes with both very bright and very dark areas.
- **Brightness:** Adjusts the overall luminance of the image.
- **Sharpness:** Controls the clarity and detail of the image.
- **Mirror:** Flips the image horizontally.

Refer to your DVR's manual for specific instructions on how to access and control the camera's OSD menu.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your surveillance camera.

- **Cleaning:** Periodically clean the camera lens and housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Regularly check all cables for signs of wear, damage, or loose connections. Ensure all connections are secure and weatherproofed for outdoor installations.
- **Firmware Updates:** Check the Hikvision official website for any available firmware updates for your camera model. Follow the instructions provided by Hikvision for any updates.
- **Environmental Check:** Ensure the camera's environment remains within its operating temperature and humidity specifications. Clear any obstructions that might block the camera's view or ventilation.

8. Troubleshooting

If you encounter issues with your camera, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Image/Black Screen	No power; Loose video connection; Incorrect video format.	Check power supply and connections. Ensure the camera is set to the correct video format (TVI/AHD/CVI/CVBS) compatible with your DVR by holding the mode switch button for 5 seconds.
Poor Image Quality (Blurry/Distorted)	Dirty lens; Cable interference; DVR settings.	Clean the camera lens. Ensure video cables are not near strong electrical interference. Check DVR display settings.
Night Vision Not Working	Insufficient power; IR LEDs faulty; Environmental factors.	Verify stable DC12V power supply. Ensure no obstructions are blocking the IR LEDs. Contact support if IR LEDs appear to be non-functional.
OSD Menu Not Accessible	DVR does not support UTC control; Incorrect connection.	Ensure your DVR supports UTC control for OSD access. Consult your DVR manual.

If the problem persists after trying these solutions, please contact Hikvision customer support or your product reseller for further assistance.

9. Warranty and Support

For information regarding product warranty, please refer to the warranty card included with your purchase or visit the official Hikvision website. Warranty terms and conditions may vary by region and retailer.
For technical support, product inquiries, or service requests, please contact your authorized Hikvision dealer or visit the Hikvision support portal:

Hikvision Official Website: www.hikvision.com

Support Contact: Refer to the contact information provided by your local Hikvision distributor or reseller.

Please have your product model number (HWT-T150-M) and serial number ready when contacting support.

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