AVUE AV50HTW-2812

AVUE AV50HTW-2812 Security Dome Camera

USER INSTRUCTION MANUAL

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your AVUE AV50HTW-2812 1080P True Full-HD Security Dome Camera. This camera is designed for both indoor and outdoor surveillance, featuring a 2.8-12mm variable focus lens, 2.4 MP resolution, and 120ft. IR night vision. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

2. Safety Information

To prevent injury to yourself or others, or damage to your device, read all safety information before using the device.

- **Power Supply:** Use only the specified 12V DC power adapter. Incorrect voltage may damage the camera and void the warranty.
- **Installation:** Ensure the camera is securely mounted to prevent falling. For outdoor installations, ensure all connections are properly sealed to maintain IP66 weather resistance.
- **Cleaning:** Do not use liquid or aerosol cleaners. Use a soft, dry cloth for cleaning.
- **Operating Temperature:** Avoid operating the camera outside its specified temperature range.
- **Disassembly:** Do not attempt to disassemble or modify the camera. This will void the warranty and may cause damage.

3. Package Contents

Verify that all items are present in the package:

- AVUE AV50HTW-2812 Security Dome Camera
- Mounting Screws and Wall Plugs
- Installation Template (if applicable)
- User Manual (this document)
- *Note: Power adapter may be sold separately.*

4. Product Overview

4.1 Key Features

- 2MP CMOS image sensor with 1080p resolution.
- 2.8-12mm vari-focal lens for adjustable field of view.
- Up to 120ft. IR range for clear night vision.
- True Day/Night (ICR) functionality.
- IP66 dust and water resistant for outdoor use.
- Vandal-proof design.
- OSD (On Screen Display) menu for advanced settings.
- Multi-axis design for flexible wall or ceiling mounting.
- WDR (Wide Dynamic Range) function for balanced images in challenging lighting.

4.2 Camera Components



Figure 1: Front view of the AVUE AV50HTW-2812 dome camera, showing the central lens surrounded by IR LEDs. This perspective highlights the main optical components.



Figure 2: Angled view of the AVUE AV50HTW-2812 dome camera, illustrating its compact and robust housing. The side view reveals the adjustable zoom and focus rings.



Figure 3: Close-up of the camera's lens and the array of infrared (IR) LEDs, which provide illumination for night vision. The zoom and focus adjustment indicators are visible.



Figure 4: Bottom angled view of the AVUE AV50HTW-2812 dome camera, showcasing its multi-axis mounting base. This view emphasizes the camera's versatile installation options.

5. Setup and Installation

5.1 Mounting Location Selection

Choose a mounting location that provides the desired field of view and is within reach of power and video cables. Ensure the surface is strong enough to support the camera's weight. For outdoor use, select a location that offers some protection from direct elements, though the camera is IP66 rated.

5.2 Installation Steps

1. **Prepare the Mounting Surface:** Use the provided installation template (if included) to mark the drilling holes on the wall or ceiling.
2. **Drill Holes:** Drill pilot holes at the marked positions. Insert wall plugs if mounting on drywall or masonry.
3. **Secure the Base:** Attach the camera's mounting base to the surface using the provided screws.

4. **Connect Cables:** Connect the 12V DC power cable and the HD-TVI video cable to the camera's ports. Ensure connections are secure and, for outdoor use, properly sealed.
5. **Adjust Camera Angle:** Loosen the adjustment screws on the camera's multi-axis gimbal to position the lens for the desired viewing angle. Tighten the screws once the angle is set.
6. **Attach Dome Cover:** Securely attach the dome cover to the camera body.

6. Operating the Camera

6.1 Powering On

Once all connections are made, connect the power adapter to a power outlet. The camera will power on and begin its initialization sequence.

6.2 Adjusting Zoom and Focus (Varifocal Lens)

The AV50HTW-2812 features a 2.8-12mm varifocal lens, allowing you to adjust the field of view and focus manually.

1. **Access Adjustment Rings:** Carefully remove the outer dome cover to access the zoom and focus adjustment rings located around the lens.
2. **Adjust Zoom:** Rotate the "ZOOM" ring to adjust the focal length (2.8mm for wide angle, 12mm for narrow/telephoto).
3. **Adjust Focus:** After setting the zoom, rotate the "FOCUS" ring until the image on your monitor is clear and sharp.
4. **Replace Dome Cover:** Once adjustments are complete, securely reattach the dome cover.

6.3 OSD (On Screen Display) Menu

The camera features an OSD menu for advanced configuration. This menu is typically accessed via a joystick or button on the camera's cable, or through a compatible DVR/NVR's PTZ control interface.

- **Accessing OSD:** Depending on your DVR/NVR, use the PTZ control to activate the OSD menu. If the camera has a physical joystick, move it to access the menu.
- **Navigation:** Use the joystick/controls to navigate through menu options (Up/Down for selection, Left/Right for value adjustment, Push/Enter for confirmation).
- **Common Settings:**
    - **Exposure:** Adjust brightness, AGC (Auto Gain Control), Shutter Speed.
    - **White Balance:** Set color temperature (AWB, Manual).
    - **Day/Night:** Configure IR cut filter mode (Auto, Color, B/W).
    - **DNR (Digital Noise Reduction):** Reduce image noise in low light.
    - **WDR (Wide Dynamic Range):** Improve image clarity in high contrast scenes.
    - **Privacy Mask:** Define areas to be blacked out for privacy.
    - **Image Settings:** Adjust sharpness, contrast, saturation, mirror, flip.
- **Save & Exit:** Always select "Save & Exit" or "Exit" to apply changes before exiting the OSD menu.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning the Lens and Dome:** Gently wipe the lens and dome cover with a soft, clean, lint-free cloth. For stubborn dirt, use a small amount of lens cleaning solution applied to the cloth, not directly to the camera.
- **Check Connections:** Periodically inspect all cable connections for corrosion or damage, especially for outdoor installations. Ensure they remain securely sealed.

- **Firmware Updates:** Check the manufacturer's website for any available firmware updates. Follow the instructions provided with the update carefully.

8. Troubleshooting

If you encounter issues with your camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on monitor/DVR	No power; Loose video cable; Incorrect video format.	Check power supply and connections. Ensure DVR/NVR supports HD-TVI.
Image is blurry/out of focus	Lens not properly focused.	Adjust the focus ring on the camera lens (refer to Section 6.2).
Poor image quality at night	IR LEDs obstructed; Insufficient IR range; OSD settings.	Clear any obstructions. Ensure IR mode is set to Auto in OSD.
Image is too dark or too bright	Exposure settings in OSD.	Adjust brightness, AGC, or WDR settings via the OSD menu.
Camera not responding to OSD controls	Incorrect control method; Cable issue.	Ensure your DVR/NVR's PTZ control is compatible with HD-TVI OSD. Check cable integrity.

If the problem persists after trying these solutions, please contact AVUE customer support.

9. Specifications

Feature	Detail
Model Number	AV50HTW-2812
Image Sensor	2MP CMOS
Video Resolution	1080p (1920x1080)
Lens	2.8-12mm Varifocal Lens
IR Distance	Up to 120ft. (36.5m)
Day/Night Function	True Day/Night (ICR)
Weather Resistance	IP66 (Dust and Water Resistant)
Power Supply	12V DC
Power Consumption	Approx. 4.5 watts
Dimensions (LxWxH)	4.7 x 3.4 x 4.7 inches (11.9 x 8.6 x 11.9 cm)
Weight	14.4 ounces (0.41 kg)
Connectivity Protocol	HD-TVI (Analog HD)
Operating System Compatibility	Android, iOS (for remote viewing via compatible DVR/NVR apps)

Feature	Detail
Mounting Type	Ceiling Mount, Wall Mount
Special Features	OSD Menu, WDR, Vandal-proof, Motion Sensor (via DVR/NVR)

10. Warranty and Support

AVUE products are manufactured to high quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official AVUE website.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact AVUE customer support through their official channels. Have your product model number (AV50HTW-2812) and purchase details ready when contacting support.

AVUE Official Website: Visit the AVUE Store on Amazon

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Model: AV50HTW-2812