EVERSECU ES-802

EVERSECU ES-802 6-in-1 Hybrid Security Camera User Manual

Model: ES-802

1. PRODUCT OVERVIEW

The EVERSECU ES-802 is a versatile outdoor surveillance camera designed for robust performance across various security systems. This camera supports multiple video formats including HD-SDI, TVI, AHD, CVI, and CVBS (960H), offering broad compatibility with existing DVRs and security infrastructures. It features advanced starlight color night vision for clear imaging in low-light conditions and an IP66 weatherproof rating, ensuring durability and reliable operation in outdoor environments.

This image displays the EVERSECU ES-802 security camera, a white bullet-style camera with a sun shield, designed for outdoor surveillance. The camera features a prominent lens at the front and the EVERSECU brand name on its side. It is mounted on a swivel bracket, indicating adjustable positioning.

2. SAFETY INFORMATION

- Ensure proper power supply (DC 12V) to avoid damage to the camera.

- Do not attempt to disassemble or modify the camera. This will void the warranty and may cause electric shock.

- Install the camera in a secure location to prevent unauthorized tampering.

- Avoid pointing the camera directly at strong light sources for extended periods, as this may affect image quality and sensor lifespan.

- Keep the camera away from corrosive chemicals and extreme temperatures.

3. PACKAGE CONTENTS

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

- EVERSECU ES-802 6-in-1 Hybrid Security Camera

- Mounting Screws and Wall Plugs

- Allen Wrench

- User Manual

4. FEATURES

- **Starlight Color Night Vision:** Utilizes the Starvis IMX327 Sensor to deliver full-color images in extremely low light conditions.

- **6-in-1 Video Output:** Compatible with HD-SDI, TVI, AHD, CVI, and CVBS (960H) formats, ensuring broad system integration.

- **OSD Menu Support:** On-Screen Display menu for easy configuration of camera settings, including video output mode, image adjustments, and advanced features.

- **High Definition:** 2MP (1920x1080) resolution for clear and detailed surveillance footage.

- **Weatherproof Design:** IP66 rated housing provides protection against dust and powerful water jets, suitable for outdoor installation.

- **Wide Dynamic Range (WDR):** 150dB WDR for balanced images in scenes with both very bright and very dark areas.

- **Low Illumination:** Minimum illumination of 0.001 Lux (color) and 0.0001 Lux (IR on).

- **Advanced Image Processing:** Includes 3D-DNR (Digital Noise Reduction), Digital Zoom, Motion Detection, Privacy Zone masking, AGC (Automatic Gain Control), HLC (Highlight Compensation), and BLC (Backlight Compensation).

5. SETUP

5.1 Physical Installation

Choose a suitable mounting location that provides the desired field of view and is within reach of power and video cables. Use the provided mounting screws and wall plugs to securely attach the camera bracket to a wall or ceiling. Adjust the camera's angle and rotation using the swivel bracket and tighten the screws with the supplied Allen wrench to fix its position.

5.2 Wiring Diagram

The ES-802 camera features a multi-connector cable for power and video output. Connect the DC 12V power adapter (not included) to the power input connector. Connect the appropriate BNC video output cable to your DVR or monitor. The camera supports various video formats, each typically corresponding to a specific BNC connector color or selectable via the OSD menu.

This image shows the EVERSECU ES-802 camera from a side angle, highlighting its integrated cable harness. The harness includes a power input connector and multiple BNC connectors (green, black, yellow, red) for various video output formats (HD-SDI, TVI, AHD, CVI, CVBS), demonstrating its 6-in-1 hybrid capability.

5.3 Video Output Configuration (OSD Menu)

To ensure compatibility with your DVR, you may need to change the camera's video output format. This is done via the OSD (On-Screen Display) menu, typically accessed through a small joystick or button located on the camera's cable. Connect the camera to a monitor or DVR, then use the joystick/button to navigate the menu and select the desired video format (e.g., TVI, AHD, CVI, CVBS, HD-SDI). Save your changes before exiting the menu.

6. OPERATING INSTRUCTIONS

6.1 OSD Menu Navigation

The OSD menu allows for detailed customization of camera settings. Use the joystick/button on the camera cable to:

- **Push Up/Down/Left/Right:** Navigate through menu options.
- **Press In (Center):** Select an option or confirm a setting.
- **Hold Down:** Exit the menu or save settings (refer to specific menu prompts).
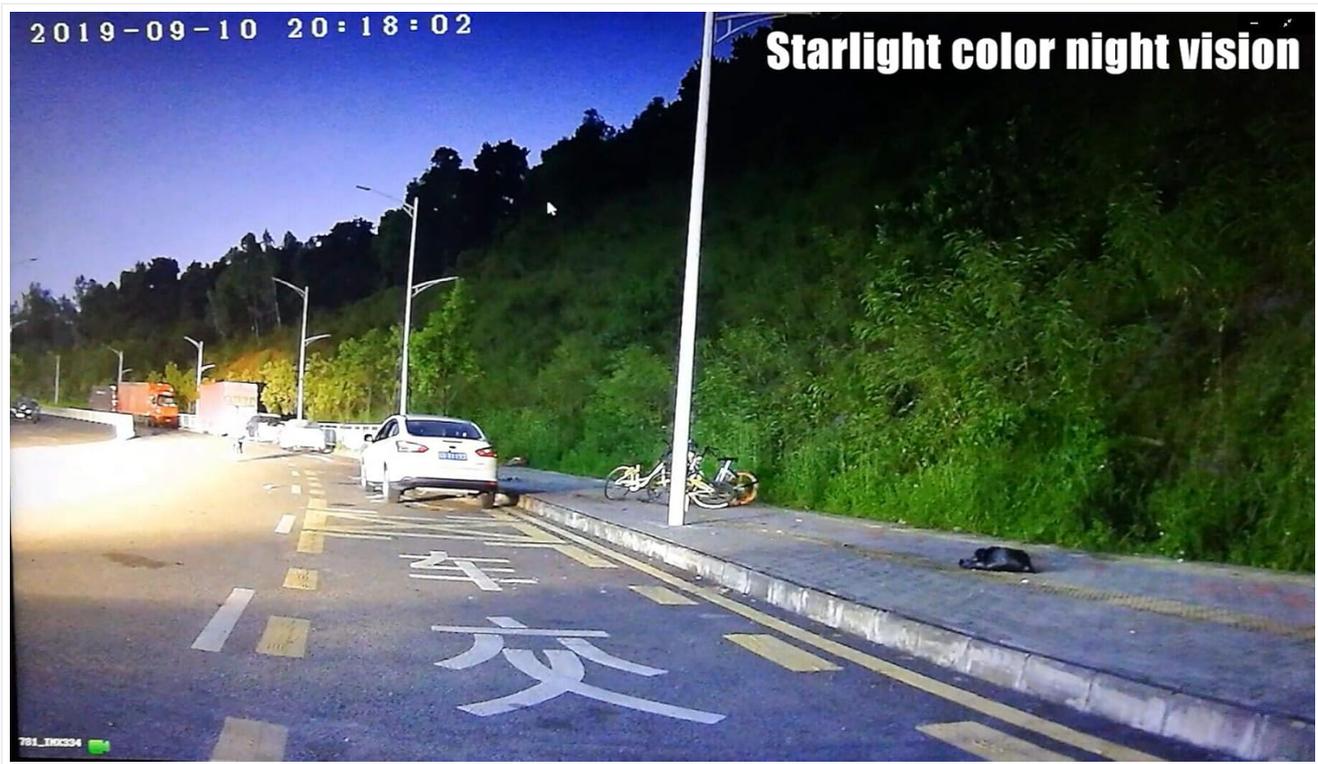
6.2 Image Settings

Within the OSD menu, you can adjust various image parameters:

- **Brightness:** Adjust the overall luminance of the image.
- **Contrast:** Control the difference between light and dark areas.
- **Saturation:** Modify the intensity of colors.
- **Sharpness:** Enhance edge definition.

6.3 Day/Night Mode

The camera can operate in different day/night modes:

- **Auto:** Camera automatically switches between color (day) and black/white (night) modes based on ambient light.
- **Color:** Forces the camera to stay in color mode, ideal for starlight night vision in very low light.
- **B/W:** Forces the camera to stay in black and white mode, often used with traditional IR illumination.

This image illustrates the camera's starlight color night vision capability, showing a street scene at night with vehicles and pedestrians. Despite low light conditions, colors are visible, and details are clear, demonstrating the camera's ability to capture full-color images without traditional infrared illumination.

7. MAINTENANCE

- **Cleaning:** Regularly clean the camera lens with a soft, dry cloth to ensure clear image quality. For stubborn dirt, use a lens cleaning solution designed for optics.
- **Housing:** Wipe the camera housing with a damp cloth to remove dust and debris. Do not use harsh chemicals.
- **Cable Connections:** Periodically check all cable connections for corrosion or damage, especially in outdoor installations. Ensure they are securely fastened.
- **Firmware:** Check the manufacturer's website for any available firmware updates to ensure optimal performance and access to new features.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on monitor/DVR	No power; Loose cable connection; Incorrect video format; Faulty cable/DVR input.	Check power supply and adapter; Ensure all cables are securely connected; Verify camera's video output matches DVR input via OSD menu; Test with a different cable or DVR input.
Poor image quality / Distortion	Dirty lens; Incorrect OSD settings; Cable interference; Low light conditions.	Clean the camera lens; Adjust OSD settings (brightness, contrast, sharpness, WDR); Use shielded cables; Ensure adequate ambient light for color night vision.
Night vision not working or too dark	Insufficient ambient light for starlight vision; Incorrect Day/Night mode setting.	Ensure there is some ambient light for starlight color night vision; Set Day/Night mode to 'Color' or 'Auto' in OSD menu. Starlight vision requires minimal light, not total darkness.

Problem	Possible Cause	Solution
OSD menu not appearing	Joystick/button malfunction; Camera not powered on; Video signal issue.	Ensure camera is powered; Check video connection; Try pressing the joystick/button firmly.

9. SPECIFICATIONS

Feature	Specification
Model	ES-802
Resolution	2MP (1920x1080) @ 25/30FPS
Sensor	EN771+IMX327 (Starvis)
Lens	4mm Starlight lens
Minimum Illumination	0.001Lux (color); 0.0001Lux (IR on)
Video Output Formats	HD-SDI/TVI/AHD/CVI/CVBS (6-in-1)
Wide Dynamic Range (WDR)	150dB
Sens-up	Off/x2/x4/x8/x16/x32
Day/Night Mode	IRC (IR Cut Filter)
OSD Menu	Multi-language support
Additional Features	3D-DNR, Digital Zoom, Motion Detection, Privacy Zone, AGC, HLC, BLC
Ingress Protection (IP) Rating	IP66, IP67
Housing Material	Metal
Color	White
Dimensions (L*W*H)	150mm * 85mm * 70mm
Weight	550g
Power Source	Corded Electric (DC 12V)
Frame Rate	30 fps

10. WARRANTY AND SUPPORT

EVERSECU is committed to providing high-quality products and customer satisfaction. For warranty information, technical support, or any inquiries regarding your ES-802 camera, please refer to the contact details provided with your purchase or visit the official EVERSECU website. Please have your model number (ES-802) and purchase details ready when contacting support.