

Voyager WVCMS130AP

Voyager WVCMS130AP CMOS Digital Wireless Camera

Instruction Manual

1. INTRODUCTION

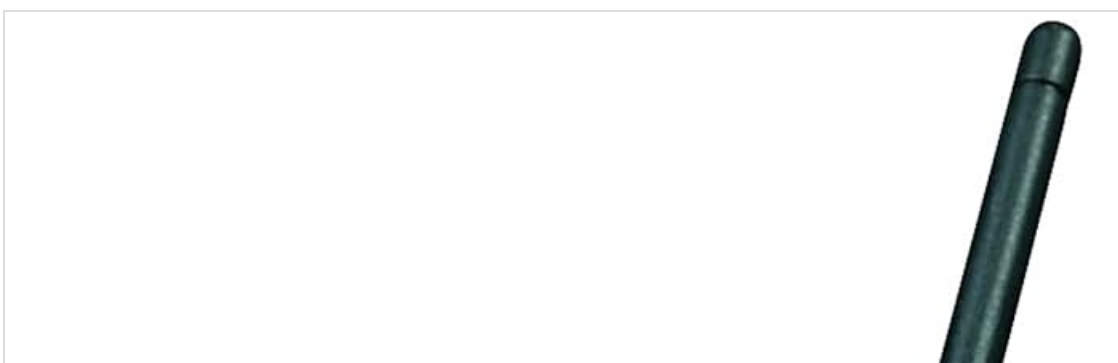
The Voyager WVCMS130AP is a high-quality CMOS digital wireless camera designed to serve as an extra or replacement unit for the Voyager WVOS541 WiSight Technology observation system. This camera provides reliable rearview and blind spot monitoring, enhancing safety and awareness for various vehicle types. Featuring WiSight Technology, it ensures a strong and stable wireless signal, even at freeway speeds. Its robust, waterproof design and integrated IR LEDs for low-light assistance make it suitable for diverse environmental conditions.

2. SAFETY INFORMATION

- **Proper Installation:** Ensure all wiring is correctly connected and secured to prevent electrical shorts or disconnections during vehicle operation. Consult a professional if unsure about electrical connections.
- **Power Source:** Connect the camera only to a 12V DC power source as specified. Using an incorrect voltage can damage the unit.
- **Mounting Security:** Securely mount the camera using the provided bracket to prevent it from dislodging during vehicle movement, which could cause injury or damage.
- **Waterproof Design:** While the camera is designed to be waterproof, avoid intentional submersion or high-pressure water jets directly on the lens or connections. Ensure all connections are properly sealed after installation.
- **Operating Temperature:** Do not operate the camera outside its specified temperature range to prevent damage to internal components.

3. PRODUCT OVERVIEW

The WVCMS130AP camera is a compact, durable unit built for external vehicle mounting. It incorporates a CMOS sensor for clear digital imaging and 14 infrared (IR) LEDs for enhanced visibility in low-light conditions. The camera features an integrated antenna for wireless signal transmission and an adjustable mounting bracket for flexible positioning.





This image displays the Voyager WVCMS130AP wireless camera. It features a black, oval-shaped body with a central lens surrounded by multiple IR LEDs for night vision. An adjustable mounting bracket is attached to the base, and a wireless antenna extends from the top. The camera's robust design is suitable for outdoor vehicle use.

4. SETUP AND INSTALLATION

4.1 Mounting the Camera

- Select Location:** Choose a mounting location on the rear or side of your vehicle that provides an unobstructed view and allows for secure attachment of the camera bracket. Consider areas that minimize glare and are protected from direct impact.
- Secure Bracket:** Use appropriate hardware (not included) to securely fasten the camera's mounting bracket to the chosen surface. Ensure the bracket is stable and does not vibrate.
- Attach Camera:** Mount the WVCMS130AP camera to the bracket. Adjust the camera angle to achieve the desired field of view. Tighten all adjustment screws to lock the camera in position.

4.2 Power Connection

The WVCMS130AP camera requires a 12V DC power source. It is typically powered by connecting to the vehicle's rear lighting wire or another available 12V DC power source. Ensure proper polarity when making connections.

- Identify Power Wires:** Locate a suitable 12V DC power source, such as the vehicle's reverse light circuit for automatic activation when backing up, or a constant 12V source if continuous operation is desired.
- Connect Wires:** Connect the camera's power wires to the identified power source. Use appropriate wire connectors and ensure all connections are insulated and protected from moisture and abrasion.
- Test Connection:** Before finalizing the installation, briefly apply power to the camera to confirm it powers on and transmits a signal.

5. OPERATING THE CAMERA

The WVCMS130AP camera utilizes WiSight Technology for wireless transmission to a compatible Voyager WVOS541 monitor (sold separately). The camera features auto-pairing technology, simplifying the connection process with the monitor.

- Power On:** Once properly installed and connected to a 12V DC power source, the camera will power on automatically when the power source is active (e.g., vehicle in reverse, or ignition on).
- Automatic Pairing:** The WVCMS130AP camera is designed to auto-pair with the WVOS541 monitor. Ensure your WVOS541 monitor is powered on and in pairing mode (refer to your WVOS541 monitor manual for specific pairing instructions). The camera's signal should automatically appear on the monitor.
- Signal Strength:** The WiSight Technology provides a strong signal that transmits effectively through and around objects, ensuring reliable video feed.

6. MAINTENANCE

- Cleaning:** Periodically clean the camera lens and housing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the lens or finish.
- Inspection:** Regularly inspect the camera, mounting bracket, and wiring for any signs of damage, corrosion, or loose connections. Address any issues promptly to ensure continued performance and safety.
- Antenna:** Ensure the antenna is securely attached and free from obstructions.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on monitor	Camera not powered; Pairing issue; Signal interference; Incompatible system.	Verify 12V DC power connection to camera. Ensure proper polarity. Re-attempt pairing with WVOS541 monitor (refer to monitor manual). Check for strong signal. Confirm camera is compatible with your WVOS541 system (WiSight Technology).

Problem	Possible Cause	Solution
Poor image quality (blurry, distorted)	Dirty lens; Low light conditions; Signal interference.	Clean the camera lens. Ensure IR LEDs are functioning in low light. Check for sources of electrical interference near the camera or monitor.
Camera not powering up	No power to the circuit; Loose wiring; Blown fuse.	Check the vehicle's fuse box for the circuit powering the camera. Inspect all wiring connections for looseness or corrosion. Ensure the power source is active.
Moisture inside lens	Compromised seal; Extreme temperature changes.	While waterproof, extreme conditions or improper installation can lead to moisture. Ensure all cable entries are sealed. If persistent, contact support.



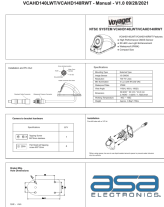


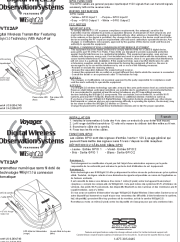
8. SPECIFICATIONS

Feature	Specification
Model	WVCMS130AP
Brand	Voyager
Optical Sensor Technology	CMOS
Video Capture Resolution	720p
Lens Type	Wide Angle
Illumination	14 IR LEDs (low-light assist)
Voltage	12 Volts DC
Special Features	Waterproof
Item Weight	1 pound (approx. 0.465 kg)
Product Dimensions	8 x 3.75 x 3.5 inches (approx. 20.3 x 9.5 x 8.9 cm)

9. WARRANTY AND SUPPORT

For detailed warranty information regarding your Voyager WVCMS130AP camera, please refer to the documentation included with your purchase or visit the official Voyager product support website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

If you encounter issues not covered in the troubleshooting section or require further assistance, please contact Voyager customer support. Contact information can usually be found on the manufacturer's website or in your product packaging.

	<p>Voyager WVSXC150 Digital Wireless Color CMOS Camera Installation and Specifications</p> <p>This document provides installation instructions and technical specifications for the Voyager WVSXC150 Digital Wireless Color CMOS Camera, featuring WiSight 2.0 technology. It includes details on mounting, wiring, and product features.</p>
	<p>Voyager WVSXC160 Digital Wireless Color CMOS Camera - Installation & Specifications</p> <p>Comprehensive guide for the Voyager WVSXC160 digital wireless color CMOS camera, covering features, installation steps, pinout diagrams, hardware, technical specifications, and FCC compliance information. Includes WiSight 2.0 technology.</p>
	<p>Voyager VCAHD140LWT/VCAHD140RWT NTSC Camera Manual and Specifications</p> <p>Detailed manual and specifications for the Voyager VCAHD140LWT and VCAHD140RWT NTSC cameras, covering features, installation, hardware, and technical data.</p>
	<p>Voyager WVSXM70/WVSXM70CV Digital Wireless Observation Monitor User Manual</p> <p>A comprehensive guide to the Voyager WVSXM70/WVSXM70CV Digital Wireless Observation Monitor, featuring WiSight 2.0 technology. This manual covers installation, operation, key functions, menu settings, wiring, troubleshooting, and FCC compliance information.</p>
	<p>Voyager WVSXM43 Digital Wireless Observation Monitor User Manual</p> <p>User manual for the Voyager WVSXM43 Digital Wireless Observation Monitor, featuring WiSight 2.0 technology. Learn about installation, operation, pairing, button functions, and troubleshooting.</p>
	<p>Voyager WVTX2AP Digital Wireless Transmitter with WiSight 2.0</p> <p>Installation, features, and FCC compliance for the Voyager WVTX2AP Digital Wireless Transmitter, featuring WiSight 2.0 technology. Includes wiring and GPIO function details.</p>