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AUTO-VOX W7

AUTO-VOX W-7 Digital Wireless Backup Camera User Manual

Model: W7

Overview Setup Operation Maintenance Troubleshooting Specifications

1. Product Overview

The AUTO-VOX W-7 Digital Wireless Backup Camera system is designed to enhance vehicle safety by providing a clear rear view, assisting with parking and preventing accidents. This system features a stable digital signal transmission, an IP68 waterproof camera, and a 5-inch LCD monitor for clear image display.



Figure 1: AUTO-VOX W-7 System Components - 5-inch monitor and wireless camera.

Key features include:

- **Wireless Installation:** Simplifies setup by eliminating the need for complex video cable routing.
- **Stable Digital Signal:** Ensures clear and interference-free video transmission up to 100 meters.
- **High-Quality Imaging:** Features an IP68 waterproof camera with a 1/3" color CMOS sensor, providing clear images even in low-light conditions.
- **Adjustable Parking Lines:** Offers 6 optional parking lines with adjustable height and width for precise guidance.
- **Flexible Image Orientation:** Supports normal and mirror image switching, and image rotation for versatile mounting options.
- **Durable Design:** Built to withstand extreme temperatures and harsh weather conditions.

2. Setup and Installation

The AUTO-VOX W-7 system is designed for straightforward installation. Follow these steps to set up your backup camera system.

2.1 Package Contents

Before beginning installation, verify that all components are present:

- 1 x 5-inch TFT-LCD Monitor (132 x 20 x 90 mm)

- 1 x Rear View Camera (40 mm x 28 x 30 mm)
- 1 x Power Cable (1.55 m)
- 1 x Car Charger (3.65 m)
- 1 x User Manual
- 1 x Monitor Bracket

2.2 Installation Steps

1. **Mount the Monitor:**
   Attach the 5-inch TFT-LCD monitor to your vehicle's dashboard or windshield using the provided bracket. Ensure the mounting location does not obstruct your view or interfere with vehicle controls. The suction cup mount is designed for strong adhesion and can be cleaned and reused if its stickiness diminishes.



Figure 2: Monitor placement on the vehicle dashboard for optimal viewing.

2. **Install the Camera:**
   Mount the rear view camera at the back of your vehicle, typically near the license plate. The camera is IP68 waterproof, ensuring durability in various weather conditions. Connect the camera's power cable to your vehicle's reverse light circuit. This allows the camera to activate automatically when the vehicle is put into reverse.



Figure 3: Simplified wiring diagram for camera installation, connecting to the reversing lamp.

3. **Connect Power to Monitor:**
   Plug the car charger into your vehicle's 12V power outlet (cigarette lighter socket) and connect it to the monitor. The car charger also includes an additional 2A USB port for charging other mobile devices.
4. **Antenna Positioning:**
   Ensure the small antenna on the monitor is positioned vertically. This orientation is crucial for achieving the best possible signal reception and maintaining a stable digital transmission between the camera and the monitor.



Figure 4: Stable digital signal transmission, indicating no interference and a maximum transmission range of 100 meters.

3. Operation

Once installed, the AUTO-VOX W-7 system is ready for use. The monitor will automatically display the camera feed when the vehicle is in reverse.

3.1 Understanding the Display

The 5-inch LCD monitor provides a clear view of the area behind your vehicle. The camera features a 0.1 lux minimum illumination, ensuring visibility even in low-light conditions, including night vision capabilities.

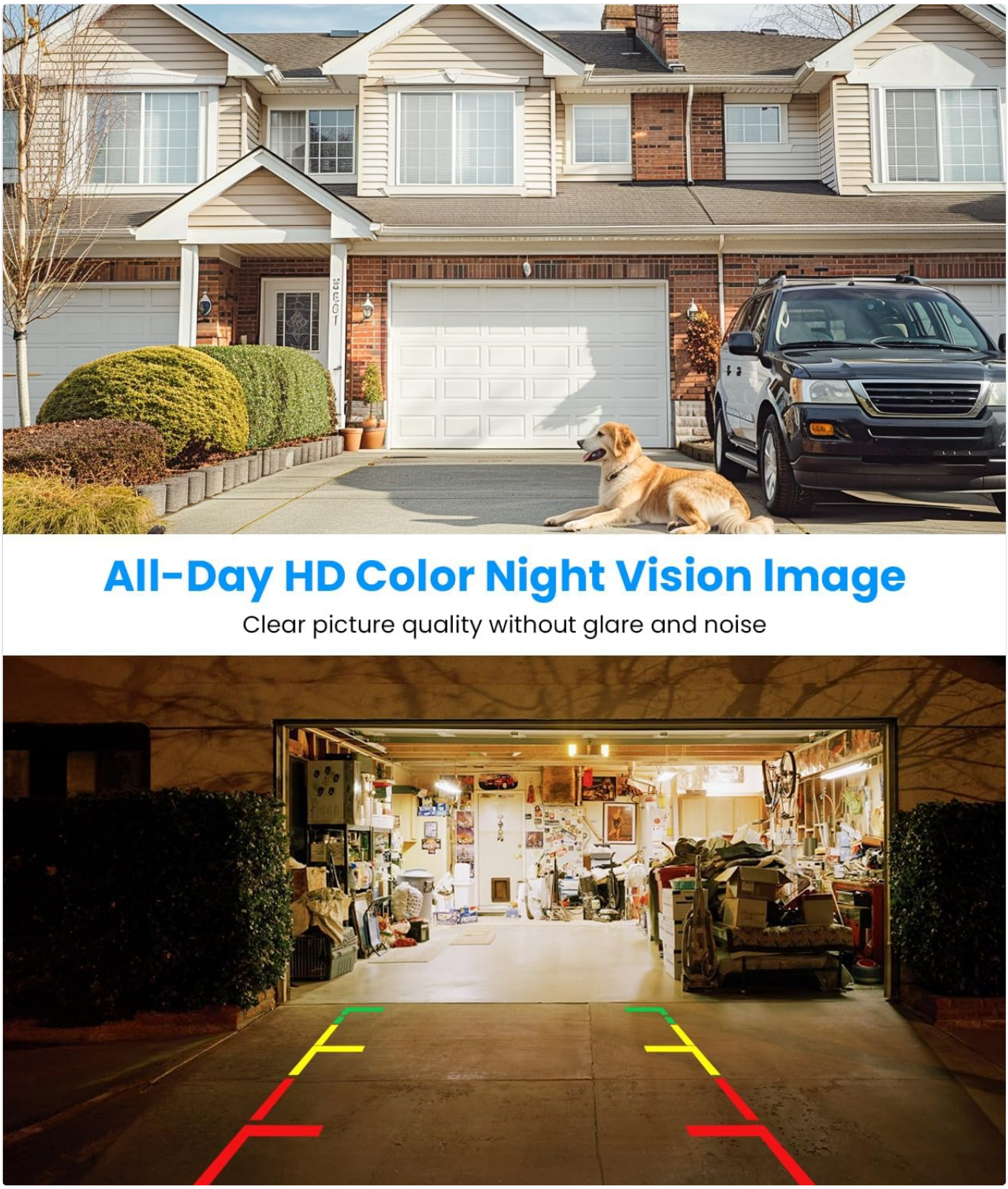


Figure 5: All-Day HD Color Night Vision Image, demonstrating clear picture quality without glare or noise.

3.2 Adjusting Parking Guide Lines

The system offers customizable parking guide lines to assist with precise maneuvering. You can adjust their height and width to suit your vehicle and preferences.

- To adjust the height of the lines, after turning the camera on, hold the 'M' button on the monitor for a few seconds.
- Use the arrow up or down buttons to move the lines as required.
- The system provides 6 optional parking lines, which can be particularly useful in various parking scenarios.

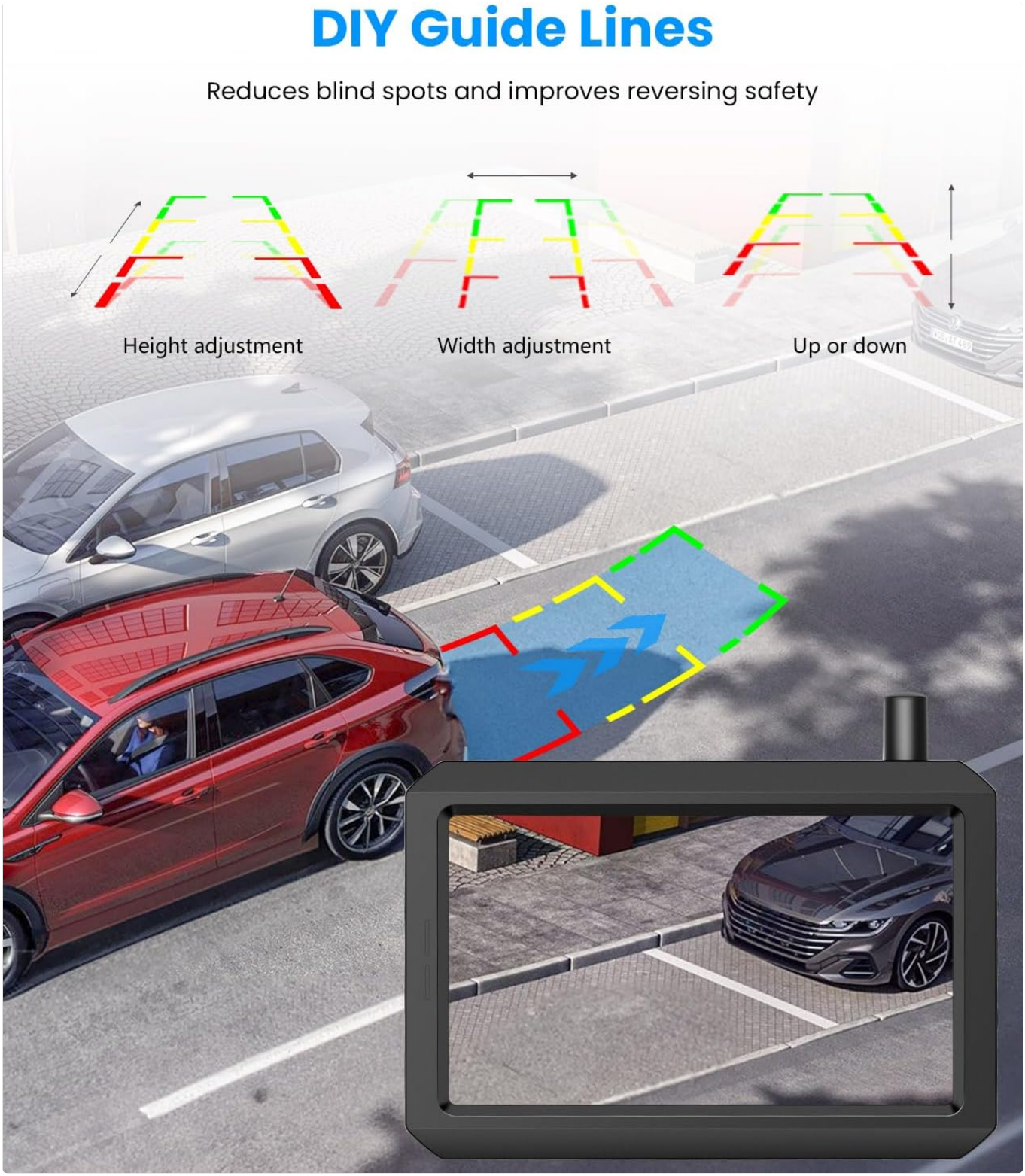


Figure 6: DIY Guide Lines, illustrating how adjustments reduce blind spots and improve reversing safety.

3.3 Image Orientation

The camera supports both normal and mirror image display, allowing for flexible installation and viewing. You can also rotate the image if needed.

- The camera supports switching between mirror image (default for rear view) and normal image (useful if mounted on the front).
- Refer to the monitor's controls for options to rotate the image display, which can be helpful for specific mounting angles.

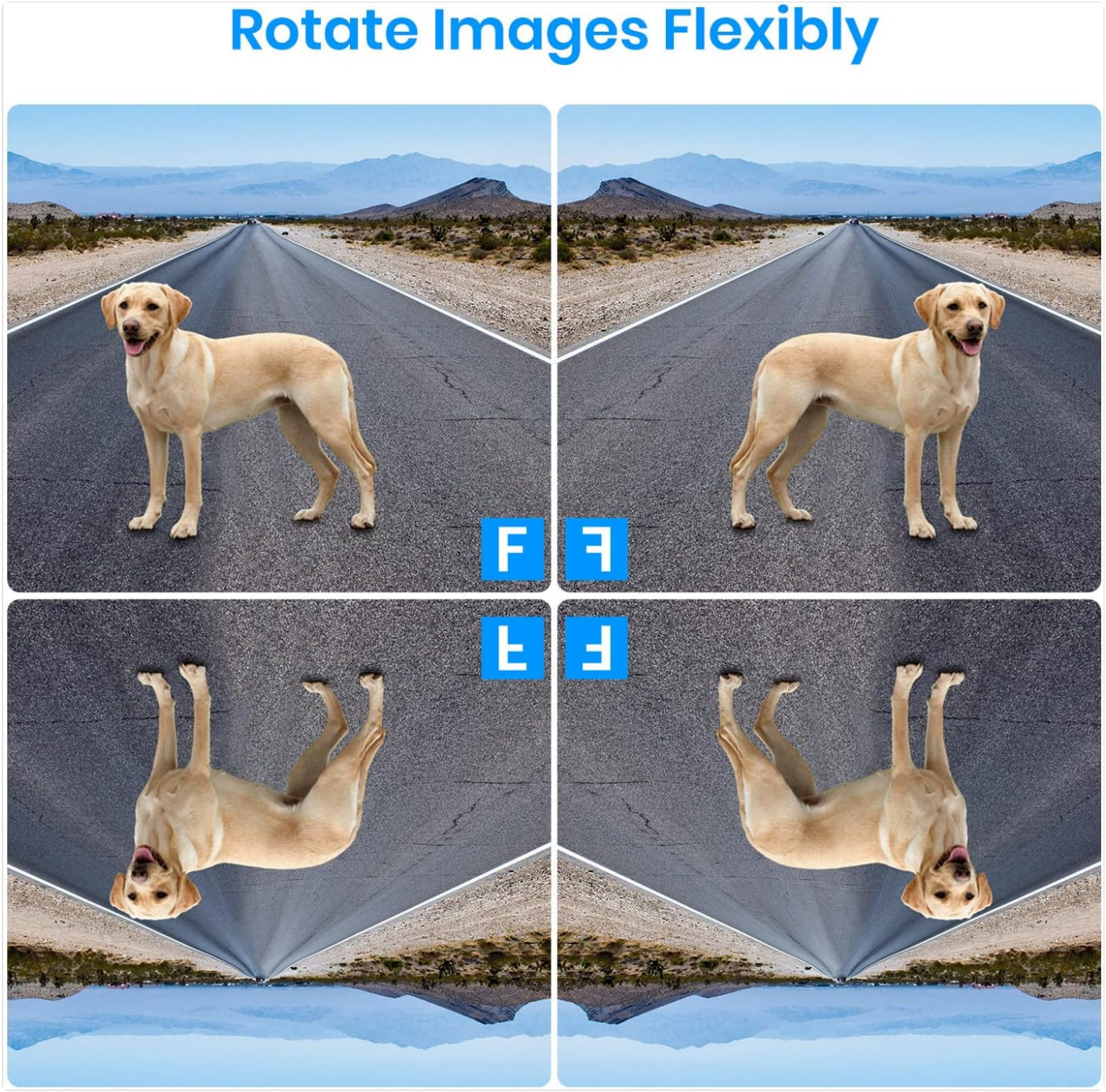


Figure 7: Flexible Image Rotation options for various viewing needs.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your AUTO-VOX W-7 system.

4.1 Camera Care

The camera is designed with an IP68 waterproof rating, making it resistant to dust and water ingress. However, regular cleaning is recommended to maintain clear visibility.

- Periodically clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obscure the view.
- Avoid using abrasive cleaners or solvents that could damage the lens or camera housing.

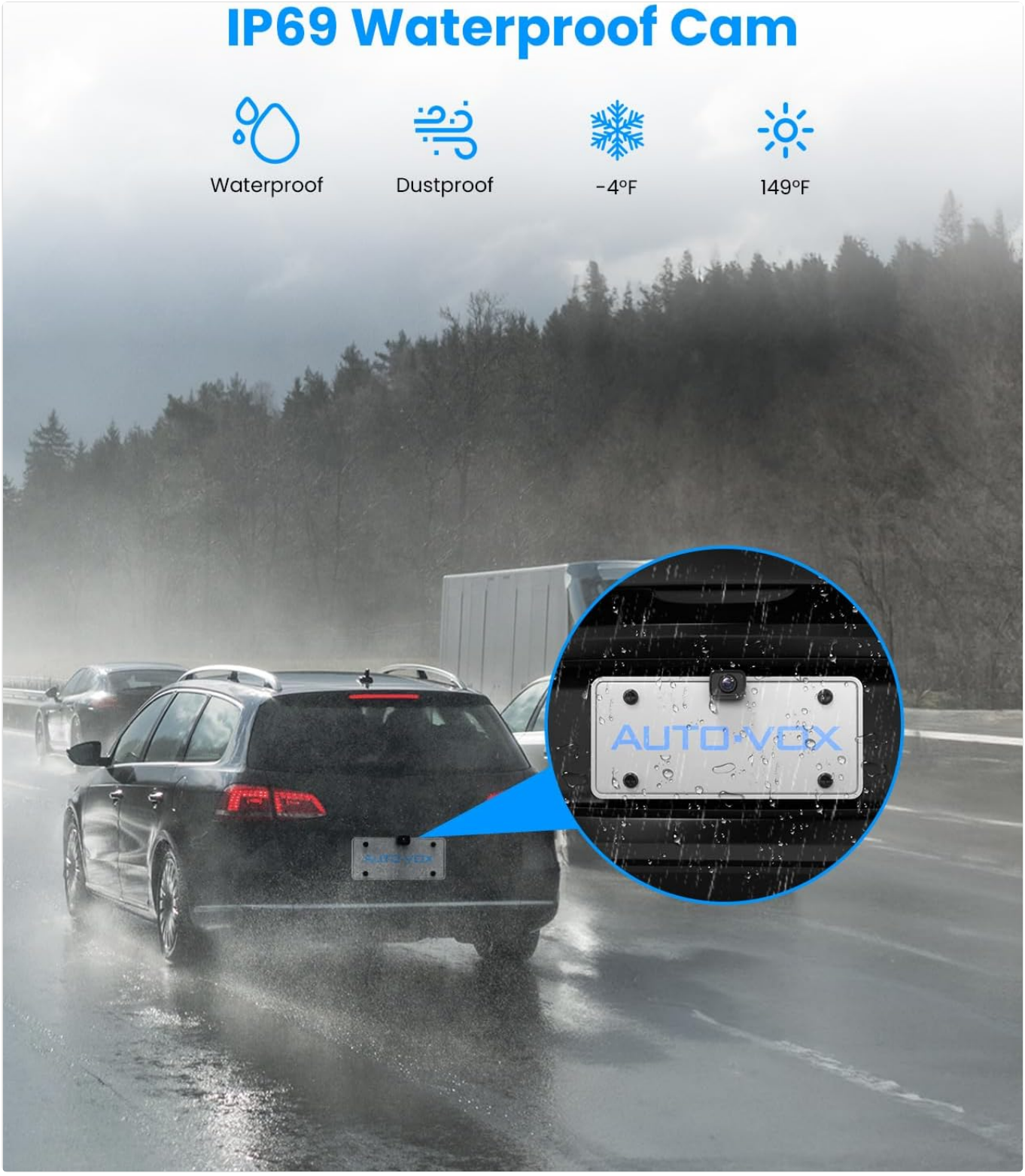


Figure 8: IP69 Waterproof Camera, highlighting its resistance to water, dust, and extreme temperatures.

4.2 Monitor and Bracket Care

- Clean the monitor screen with a soft, lint-free cloth. For stubborn smudges, a screen cleaner designed for electronics can be used.
- If the suction cup mount loses its stickiness, clean it with warm water and allow it to air dry. This can restore its adhesive properties.
- The system is designed to operate in temperatures ranging from -20°C to +65°C (-4°F to 149°F). Avoid exposing the unit to temperatures outside this range for extended periods.

5. Troubleshooting

If you encounter issues with your AUTO-VOX W-7 system, refer to the following common troubleshooting steps.

Problem	Possible Cause	Solution
No image on monitor	Power connection issue Camera not receiving power Signal interference	Ensure the car charger is securely plugged in and the vehicle's 12V outlet is functional. Verify the camera's power connection to the reverse light. Check fuses if necessary. Ensure the monitor's antenna is positioned vertically for optimal signal.
Image flickering or unstable	Weak signal Electromagnetic interference	Adjust the monitor's antenna position. Ensure no large metal objects are obstructing the signal path between the camera and monitor. Move away from strong electromagnetic sources if possible.
Poor image clarity (day or night)	Dirty camera lens Insufficient ambient light (night)	Clean the camera lens thoroughly. Ensure vehicle reverse lights are functioning correctly to provide illumination at night.
Parking lines incorrect	Lines not calibrated	Follow the instructions in Section 3.2 to adjust the parking guide lines.

6. Product Specifications

Detailed technical specifications for the AUTO-VOX W-7 Digital Wireless Backup Camera system:

Feature	Specification
Model Number	W7
Monitor Screen Size	5 inches
Monitor Resolution	480 x 272 pixels
Camera Sensor	1/3" Color CMOS Sensor
Camera Waterproof Rating	IP68
Minimum Illumination	0.1 lux
Power Supply	DC 12V
TV System	PAL or NTSC (Auto Conversion)
Operating Temperature	-20°C to +65°C (-4°F to 149°F)
Camera Angle Adjustment	Approximately 30 degrees variable adjustment
Connector Type	USB (for car charger)

7. Warranty and Support

Information regarding product warranty and customer support is typically provided with your purchase documentation or

on the manufacturer's official website. Please refer to those resources for details on warranty coverage, technical assistance, and service inquiries.

For further assistance, please contact AUTO-VOX customer support.

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