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› VASTEND VS-7B-HY Solar Wireless Reversing Camera System User Manual

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Model: VS-7B-HY

INTRODUCTION

Thank you for choosing the VASTEND VS-7B-HY Solar Wireless Reversing Camera System. This system is designed to enhance your driving safety by providing a clear, wide-angle view behind your vehicle. Featuring a 7-inch 1080P monitor and a magnetic, solar-powered camera with a 10000mAh battery, it is ideal for vans, caravans, trailers, and trucks. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x 7-inch Monitor
- 1x Solar Magnetic Camera
- 1x Cigarette Lighter Power Adapter
- 1x USB Type-C Cable for Camera
- 1x Monitor Mount
- 4x Antennas
- 1x User Manual
- 1x Mounting Kit



Image: All components included in the VASTEND VS-7B-HY package.

SETUP AND INSTALLATION

1. Camera Installation

The camera features a powerful magnetic base for quick and easy installation. It can be attached to any metallic surface on your vehicle. Ensure the surface is clean and dry for optimal adhesion.

1. Identify a suitable metallic surface at the rear of your vehicle (e.g., on a van, caravan, or trailer).
2. Clean the chosen area thoroughly to remove any dirt or debris.
3. Attach the camera firmly to the metallic surface using its magnetic base. The strong magnet ensures it remains secure even on uneven roads or in extreme conditions.
4. Adjust the camera angle to achieve the desired field of view.



Image: Illustrates the quick magnetic installation of the camera on a vehicle's metallic surface.

2. Monitor Installation

The 7-inch monitor can be mounted on your dashboard or windshield using the provided mount.

1. Attach the monitor to the monitor mount.
2. Choose a location on your dashboard or windshield that provides a clear view without obstructing your driving vision.

3. Secure the mount to the chosen surface.
4. Adjust the monitor angle for optimal viewing.



Image: Shows the monitor installed on both the dashboard and windshield, with power options.

3. Power Connection

The camera is equipped with a 10000mAh battery and a solar panel for continuous power. The monitor is powered via the vehicle's cigarette lighter or USB.

1. **Camera Power:** The camera's 10000mAh battery provides up to 18 hours of continuous operation on a full charge. The integrated solar panel charges the battery using sunlight from all directions, ensuring power even during long trips. For initial charging or when solar charging is insufficient, use the provided USB Type-C cable.
2. **Monitor Power:** Connect the monitor to your vehicle's cigarette lighter socket using the provided adapter, or use a USB power source.



Image: Details the 10000mAh battery, solar charging, and home charging options for the camera.

OPERATING INSTRUCTIONS

1. Basic Operation

- Power on the monitor. The camera will automatically connect wirelessly.

- The 7-inch 1080P IPS display provides clear, real-color images.
- The system uses 2.4 GHz digital wireless transmission for a strong and stable signal, with a reception range of up to 600 meters in open spaces. Dual antennas enhance reception by 70%.



Image: Illustrates the stable digital signal transmission between the camera and monitor over a distance.

2. Wide Angle View and Multi-Camera Support

The camera offers a 150° wide-angle view, significantly reducing blind spots. The system supports connection with up to 4 cameras, allowing for split-screen viewing.

- Use the monitor controls to switch between camera views or activate split-screen mode if multiple cameras are connected.
- The wide-angle lens provides comprehensive road perception, enhancing safety during reversing and parking.



Image: Demonstrates the monitor displaying views from multiple cameras, including split-screen functionality.

3. Night Vision and IP69 Waterproof Rating

The camera features an integrated IR-CUT filter for accurate color during the day and clear night vision. Its IP69 waterproof rating ensures durability in various weather conditions.

- The IR-CUT filter automatically adjusts for optimal image quality in different lighting conditions.
- The IP69 rating means the camera is protected against dust and high-pressure water jets, making it suitable for

outdoor use.



Image: Shows a comparison of the camera's clear image quality during both day and night conditions.

4. DVR Loop Recording

The system includes a DVR function with loop recording, acting as a 24-hour road witness. It supports SD cards up to 128 GB (not included).

- Insert a compatible SD card into the monitor's slot.
- Loop recording ensures continuous recording; older footage is automatically overwritten when storage is full.
- This feature helps record important events without interruption.



Image: Illustrates the DVR loop recording function, showing an SD card slot and continuous video capture.

5. Blind Spot Monitoring and Parking Guidelines

The system can detect blind spots and provide warnings to prevent potential collision risks. Parking guidelines can be activated to assist with parking maneuvers.

- The monitor displays visual cues for blind spot detection.
- Activate parking guidelines through the monitor's menu for easier reversing.



Image: Shows the blind spot monitoring system in action, highlighting detected obstacles with visual warnings on the monitor.

MAINTENANCE

- **Cleaning:** Regularly clean the camera lens and monitor screen with a soft, damp cloth. Avoid abrasive cleaners that could scratch surfaces.
- **Battery Care:** While the solar panel helps maintain charge, ensure the camera's 10000mAh battery is fully charged periodically, especially before long periods of inactivity, using the USB Type-C cable. Avoid extreme temperatures for prolonged battery life.
- **Storage:** If storing the system for an extended period, ensure both the camera and monitor are clean and fully charged. Store in a cool, dry place away from direct sunlight.
- **Magnetic Base:** Periodically check the magnetic base for any debris that might affect its adhesion. Ensure the metallic surface on the vehicle is also clean.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on monitor	Monitor not powered; Camera not powered; No wireless connection.	Ensure monitor is connected to power. Check camera battery level and solar panel exposure. Re-pair camera and monitor if necessary (refer to manual for pairing instructions).
Weak or intermittent signal	Obstructions between camera and monitor; Distance too great; Interference.	Ensure clear line of sight. Reduce distance if possible. Check for other 2.4GHz devices causing interference. Ensure antennas are properly installed.
Camera not charging	Insufficient sunlight; Damaged solar panel; Battery issue.	Ensure solar panel is clean and exposed to direct sunlight. Charge via USB Type-C cable. Contact support if issue persists.
DVR recording issues	No SD card; SD card full or corrupted; Incorrect settings.	Insert a compatible SD card (up to 128GB). Format the SD card. Check DVR settings in the monitor menu.

SPECIFICATIONS

Model	VS-7B-HY
Monitor Size	7 Inches IPS
Max Resolution	1080p Full HD
Camera Sensor	CMOS (1/2.7 inch)
Viewing Angle	150 Degrees
Battery Capacity	10000mAh
Wireless Transmission	2.4 GHz Digital
Waterproof Rating	IP69
DVR Support	Loop Recording, up to 128GB SD card (not included)
Voltage	24 Volts (System compatibility)
Product Dimensions	30 x 20 x 9.5 cm
Product Weight	1.65 kg

WARRANTY AND SUPPORT

VASTEND provides a two-year free warranty and lifetime technical support for this product. If you have any questions or concerns, please contact us through the email address provided in the manual or via the VASTEND official website. Our customer service team is dedicated to assisting you.

For further assistance, please refer to the contact information included in your product packaging or visit the official VASTEND store on Amazon: [VASTEND Store](#).

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