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LANMODO Vast M1

LANMODO Vast M1 Night Vision Camera User Manual

Model: Vast M1

Introduction

The LANMODO Vast M1 Night Vision Camera is designed to enhance driving safety, especially in low-light conditions. It features advanced night vision capabilities, a wide field of view, and essential recording functions to provide clear visibility and incident protection. This manual provides detailed instructions for the installation, operation, and maintenance of your device.



Image: The LANMODO Vast M1 main display unit and the separate rear camera.

Package Contents

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

- Drive Recorder Front Camera (x1)
- Monitor Set (x1)
- IP67 Waterproof Rear Camera (x1)
- 8.5m Rear Camera Extension Cable (x1)
- Dashboard Camera Mount (x1)
- Suction Cup Mount (x1)
- Tools (x1 set)
- 3.5m Car Charger and Extension Cable (x1)
- 3.0m Car OBD Adapter and Extension Cable (x1)
- User Manual (x1)

Note: A Micro SDXC card and card reader are not included and must be purchased separately.

Setup and Installation

Mounting the Device

The LANMODO Vast M1 can be mounted on your dashboard or windshield using the provided mounts.

1. **Prepare the Mounting Surface:** For suction cup mounting, wash the suction cup with soap and water, then dry it thoroughly. Clean the desired area on your windshield with isopropyl alcohol to ensure a firm attachment.
2. **Attach the Mount:** Securely attach either the dashboard mount or the suction cup mount to your preferred location, ensuring it does not obstruct your view.
3. **Attach the Main Unit:** Slide the main monitor unit onto the chosen mount until it clicks into place.
4. **Install Front Camera:** The front camera is integrated into the main unit. Ensure its view is clear.
5. **Install Rear Camera:** Mount the IP67 waterproof rear camera at the rear of your vehicle. Connect it to the main unit using the 8.5m extension cable.



Image: The advanced lens and screen separation design allows flexible front camera placement.

Power Connection

The LANMODO Vast M1 requires a 12V input voltage.

- **Standard Connection:** Use the provided 3.5m car charger and extension cable to connect the device to your vehicle's 12V power outlet (cigarette lighter socket).
- **OBD Connection (for Parking Surveillance):** For 24-hour parking surveillance, use the 3.0m car OBD adapter and extension cable.
- **24V Vehicles:** If your vehicle has a 24V output voltage,**do not** connect the Vast M1 directly to the OBD2 port. You must use a 24V to 12V voltage converter with the cigarette lighter adapter to power the device.

Operating Instructions

Night Vision Capabilities

The Vast M1 features advanced night vision for clear visibility in low light.

- **Sony CMOS Sensor:** Equipped with a custom Sony CMOS imaging sensor, the device automatically adjusts exposure in extremely dark conditions.
- **Starlight-Level Night Vision:** Achieves 0.0001 lux starlight-level night vision for sharp, clear images.
- **Full-Color 1080P FHD Display:** The 8-inch IPS screen provides a full-color 1080P FHD view.
- **F1.0 Aperture & 7-Layer Lens:** Optimizes image brightness and detail.
- **HDR/WDR:** Drivers can switch between WDR and HDR modes to enhance image resolution and contrast.
- **Ultra-Long Distance:** Provides a maximum night vision distance of 411 meters, allowing you to see far beyond standard high beams.

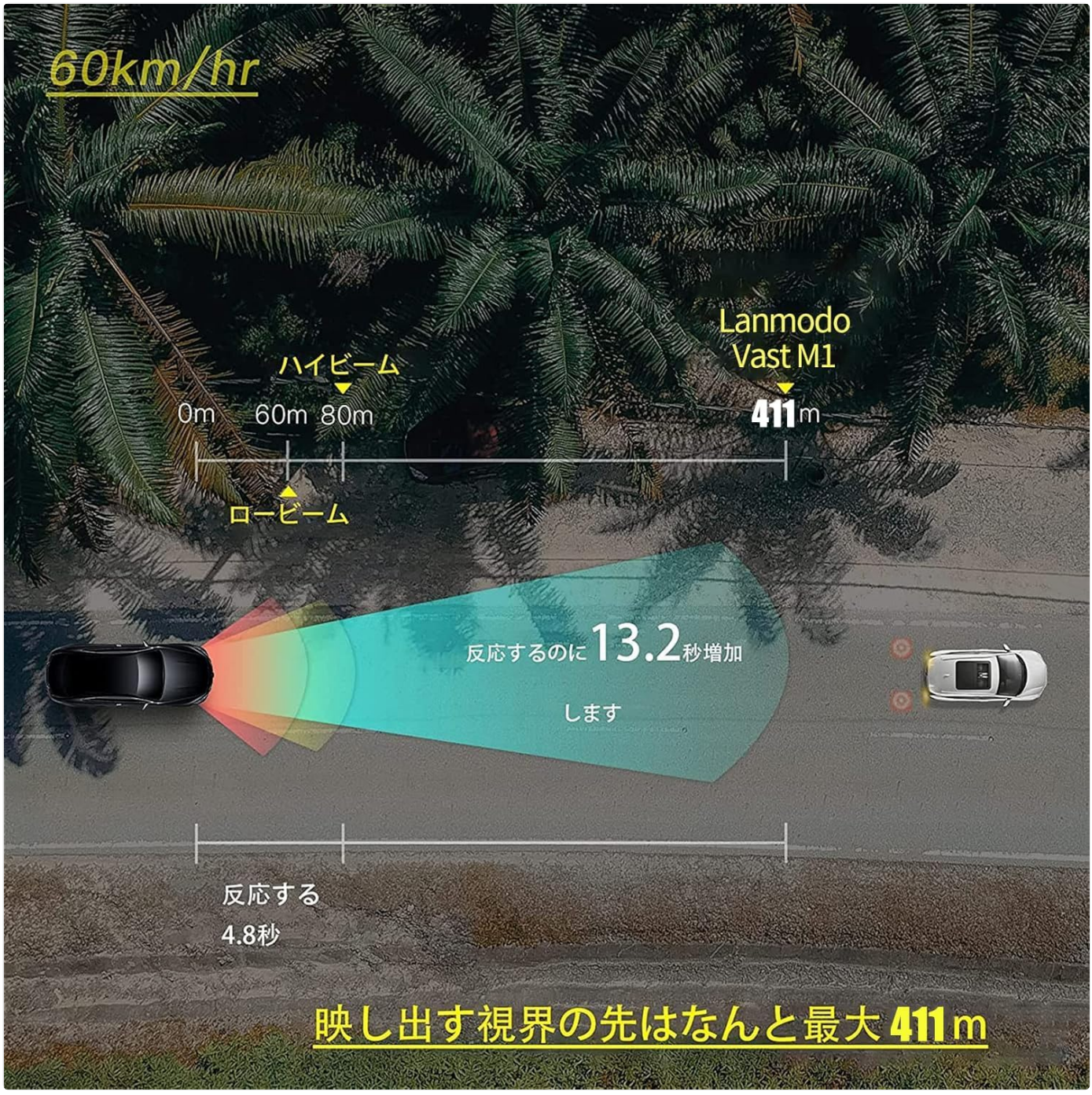


Image: The Vast M1 extends your visible range up to 411 meters, significantly improving reaction time.



Image: The adjustable lens helps reduce glare from oncoming headlights.

Continuous Loop Recording

The device continuously records footage, ensuring no moments are missed.

- **Automatic Overwrite:** When the memory card is full, the oldest recordings are automatically overwritten to make space for new footage.
- **File Segmentation:** Recordings are saved as individual 1, 3, or 5-minute files to prevent loss or omission of images.
- **H.265+ Compression:** Utilizes H.265+ video compression technology to save up to 80% storage space while maintaining image quality.
- **Storage:** Supports Micro SDXC cards up to 128GB (sold separately).

Adjustable G-Sensor

The G-sensor detects sudden movements and protects critical footage.

- **Impact Detection:** Automatically detects sudden impacts or collisions.

- **Sensitivity Settings:** Drivers can adjust the G-sensor sensitivity to Low, Medium, or High.
- **Emergency Video Lock:** Triggers event recording and locks emergency videos to prevent them from being overwritten by loop recording. This footage serves as strong evidence in case of an accident.



Image: When the G-sensor detects a sudden impact, the video is individually locked.

24-Hour Parking Surveillance

Monitor your vehicle even when parked.

- **Automatic Activation:** The drive recorder automatically turns on and records emergency video if an impact is detected by the motion sensor while the car is parked.
- **Vehicle Protection:** Protects your vehicle from theft and vandalism.
- **OBD Power:** When using the OBD power adapter, parking mode is available with low voltage protection and low power consumption to prevent car battery drain.



Image: 24-hour parking surveillance continuously monitors your car for potential events.

Super Capacitor

The integrated super capacitor ensures reliable operation in various climates.

- **Temperature Resistance:** Provides excellent performance in a wide temperature range of -20°C to 70°C (-4°F to 158°F).
- **All-Season Protection:** Ensures continuous surveillance and safety, protecting your car throughout all four seasons, from freezing winters to scorching summers.



Image: The device maintains safe operation under various conditions, including rain, fog, snow, and night.

Maintenance

To ensure optimal performance and longevity of your LANMODO Vast M1, follow these maintenance guidelines:

- **Clean Lenses:** Regularly clean the camera lenses and the front glass of the main unit. Dust or dirt can significantly affect image clarity. Use a soft, lint-free cloth.
- **Check Mount:** Periodically check the dashboard or suction cup mount for secure attachment. Re-clean the suction cup and windshield surface as described in the Setup section if the mount feels loose.
- **Software Updates:** Check the official LANMODO website for any available firmware updates to ensure your device has the latest features and bug fixes.

Troubleshooting

Refer to the following common issues and their solutions:

Problem	Possible Cause / Solution
Foggy or Unclear Vision	The camera lens or front glass may be covered with dust or dirt. Clean it thoroughly with a soft cloth.
Nearby Objects Appear Unclear	This is normal behavior. The lens focus point is optimized for distant objects (up to 411 meters) to achieve ultra-long night vision. Objects very close to the camera may appear less sharp.
Poor Performance in Dense Fog	If visibility drops below 10 meters in dense fog, the Vast M1's performance will be affected. Driving in such extreme weather conditions is not recommended for safety.
No Image in Complete Darkness	The low-light imaging technology requires subtle ambient light (e.g., moonlight, streetlights) to form clear images. Use in completely dark environments without any light source is not recommended.
Device Not Powering On (24V Vehicle)	For vehicles with 24V output, the Vast M1 cannot be connected directly to the OBD2 port. A 24V to 12V voltage converter must be used with the cigarette lighter adapter.

SPECIFICATIONS

Brand	LANMODO
Model	Vast M1
Compatible Vehicle Types	ATV, RV, UTV, Tractor, Truck, Bus, Minivan, Car
Connectivity Technology	AUX
Special Features	G-Sensor, Parking Monitor, Loop Recording, Built-in Display, Night Vision
Video Capture Resolution	1080p
Mounting Type	Dashboard Mount, Windshield Mount, Rearview Mirror Mount
Field of View	411 meters
Product Dimensions (D x W x H)	10 x 20 x 8 cm
Screen Size	8 inches
Internal Memory Type	microSDXC
Max Aperture	F/1.0
Image Sensor	25 inches *(Note: This specification may refer to sensor size, but 'inches' is an unusual unit for this context.)*
Auto Part Position	Front, Rear
Batteries Included	No
Display Type	Advanced: LCD IPS

Supported Standards	MP4
Compatible Devices	Smartphone, Tablet, TV, Laptop, PC
Max Flash Memory Support	128 GB
Auto Part Orientation	Front, Rear, and Inside

Warranty and Support

Your LANMODO Vast M1 Night Vision Camera comes with comprehensive support:

- **Manufacturer Warranty:** A 12-month manufacturer warranty is included from the date of purchase.
- **Customer Service:** Dedicated customer service is available 7 days a week, 24 hours a day, to assist you with any inquiries or issues.

For further assistance, please refer to the contact information provided in your product packaging or visit the official LANMODO website.

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