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## LANMODO RM (B093WRYKZV)

# LANMODO Vast Pro Dash Cam Front Camera User Manual

Model: RM (B093WRYKZV) | Brand: LANMODO

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your LANMODO Vast Pro Dash Cam Front Camera. Please read this manual thoroughly before using the device to ensure proper function and safety.



Figure 1.1: LANMODO Vast Pro Dash Cam Front Camera and Display Unit.

## 2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the device or injury to yourself.

- The operating voltage of the system is 12V. For cars with an output voltage of 24V, the NVS (Night Vision System) cannot be connected to the OBD port for power supply. It must be connected to a car charger with a voltage converter from 24V to 12V.
- Vast Pro requires only faint light to form a clear image, so it may show image noise in a completely dark environment and will be overexposed when it encounters strong light.
- Please format the Micro SD card before use. Before inserting or removing the Micro SD card, please turn the device off to prevent damage to the card or loss of files.
- To avoid bouncy pictures as much as possible, it is suggested to mount the NVS on the windshield. Washing the suction cup with soap and water and drying it before mounting, and wiping the windshield with isopropyl alcohol, can help ensure a much firmer mount.
- If a Lanmodo rear camera is set up and connected to an inverted signal, Vast Pro will automatically display the rear view once the reverse gear is activated. (Note: This model is Front Camera Only).

- The real-time clock keeps track of the current time for 7 to 15 days, even when the system is powered off. You will then need to reset the time again when you connect the system to power.
- Vast Pro is a driving assistance system and does not completely replace human vision. Please pay attention to both the display screen and the road conditions.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Night Vision Camera for Car with Screen x1
- 3.5m Car Charger and Extension Cable Kit x1
- 3.0m OBD Adapter and Extension Cable Kit x1
- Dashboard Base x1
- Suction Cup x1
- Installation Tool Kit x1
- User Manual x1

*Note: Micro SDXC card and card reader are not included.*

### 4. SETUP AND INSTALLATION

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#### 4.1 Mounting Options

The Vast Pro Dash Cam offers two primary mounting options: Dashboard and Windshield.

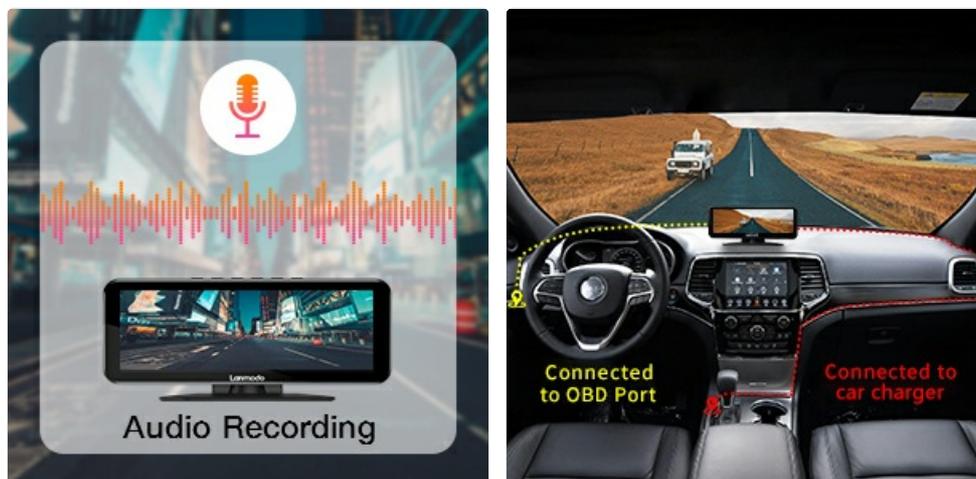


Figure 4.1: Power connection options via OBD port or car charger.

#### 4.2 Power Connection

Connect the dash cam using either the provided OBD adapter or the car charger. Ensure the connection is secure.

#### 4.3 Initial Setup

Before first use, insert a Micro SDXC card (up to 128GB, not included) and format it through the device's settings menu. Refer to the 'Safety Information' section regarding SD card handling.

### 5. OPERATING THE DASH CAM

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#### 5.1 Super Night Vision

The Vast Pro Dash Cam features a built-in Sony CMOS imaging sensor and an ultra-large F1.0 aperture with a 7-layer lens. This technology allows for 0.0001lux starlight level night vision by automatically balancing exposure in extremely dark scenarios, providing clear and sharp footage. The 8" FHD IPS screen allows switching between WDR and HDR modes to enhance resolution and contrast.

# Super Night Vision

High-sensitive SONY CMOS Sensor captures sharp and full color FHD videos even at starlight.



**SONY**  
SONY SENSOR

**FHD**  
1080P at 30 fps

f/1.6 Aperture

7-Glass Lens

Figure 5.1: Super Night Vision capability with Sony CMOS sensor and F1.6 aperture.

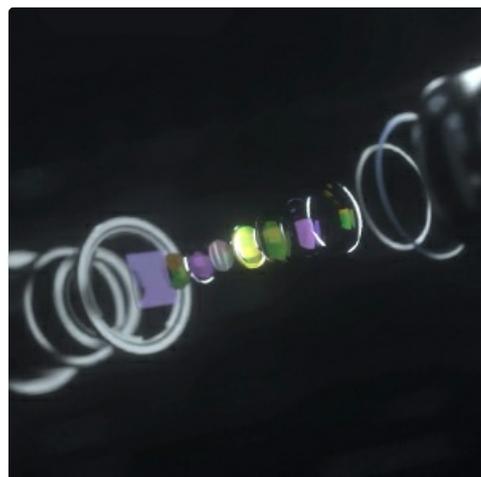
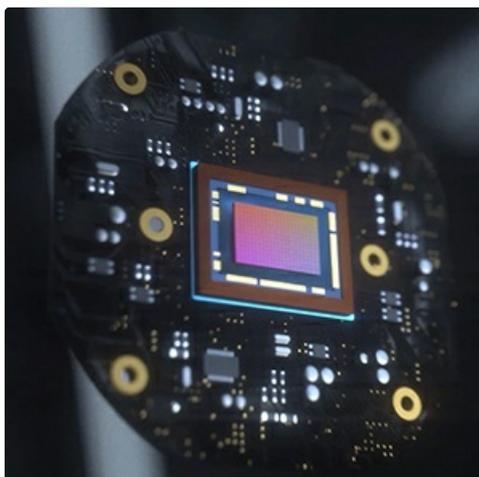


Figure 5.2: Internal components contributing to enhanced night vision: Sony CMOS sensor and 7-layer glass lens.

## 5.2 Extended Night Vision Distance

The dash cam provides a night vision distance of up to 1350 feet (411 meters), allowing drivers to see further than traditional high beams. This feature is beneficial in various low-light conditions such as dim-lit country roads, narrow mountain roads, heavy rain, snow, storms, or fog, helping to reduce blind spots and improve awareness.



Figure 5.3: Comparison of visibility range with Vast Pro Night Vision System.

# Keep Safe Driving in Various Conditions

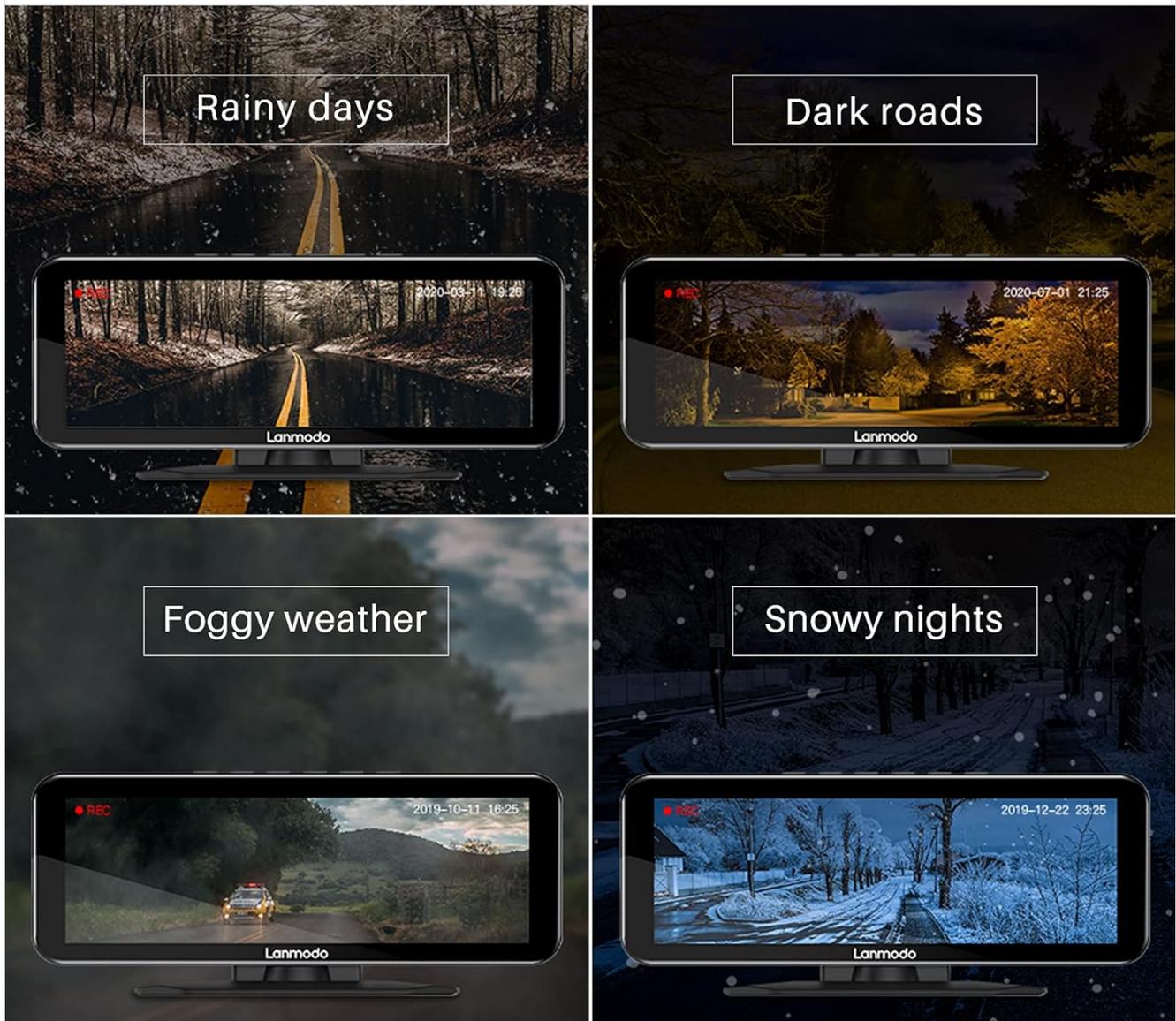


Figure 5.4: The dash cam provides clear visibility in diverse weather conditions.

## 5.3 Audio and Video Loop Recording

The device supports loop cycle recording, which automatically overwrites the oldest recordings when the memory reaches its storage limit. Recordings are saved in separate 1, 3, or 5-minute files to prevent data loss. H.265+ video compression technology optimizes storage space by up to 80% while improving image quality. The system supports Micro SDXC cards up to 128GB.

## Real-time Loop Recording

Front and rear camera(not included) can record at the same time



Figure 5.5: Real-time loop recording in action.

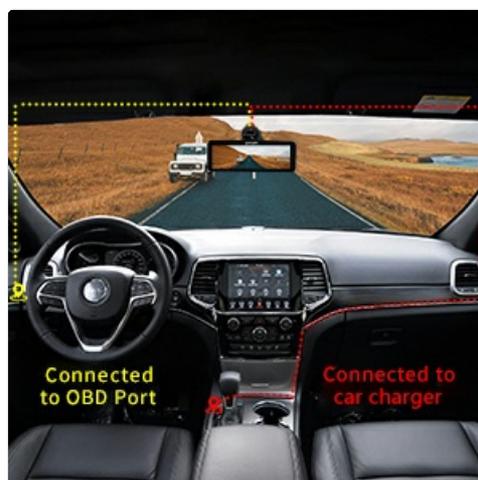


Figure 5.6: The dash cam supports audio recording.

### 5.4 G-Sensor Adjustable Sensitivity

The G-sensor automatically detects sudden impacts or collisions. Users can adjust sensitivity settings

(Low/Medium/High). When triggered, the G-sensor initiates an event recording and locks the video to prevent it from being overwritten, serving as crucial evidence for insurance claims in case of an accident.



Figure 5.7: G-sensor automatically locks footage during impacts.

## 5.5 Parking Monitor

The 24-hour parking guard feature captures potential incidents around your vehicle, protecting against theft or vandalism. The parking monitor automatically powers on the dash cam and records emergency videos upon collision detection by the motion sensor. This mode is available when the dash cam is OBD powered, featuring low voltage protection and low power consumption to prevent draining the car battery.

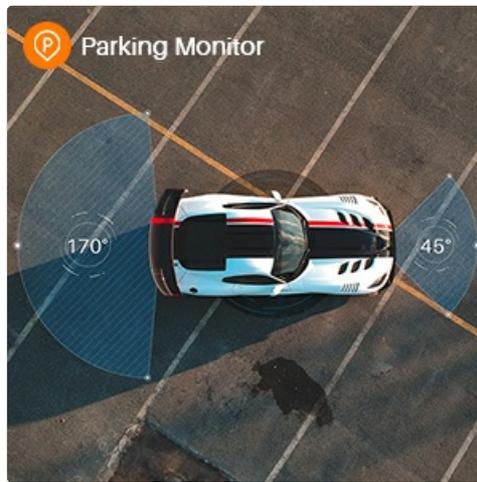


Figure 5.8: Parking monitor detection zones.

## 5.6 Super Capacitor

Equipped with a super capacitor, the dash cam ensures surveillance and safety in various weather conditions, protecting your car year-round. It offers excellent heat and cold resistance, performing well in temperatures ranging from -4°F to 158°F (20°C-70°C).

## 5.7 Official Product Video

Your browser does not support the video tag.

Video 5.1: LANMODO Vast Pro Dash Cam Super Night Vision up to 984ft. This video demonstrates the advanced night vision capabilities and other key features of the dash cam.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your dash cam.

- **Micro SD Card Formatting:** Periodically format the Micro SD card (at least once a month) to prevent data corruption and ensure smooth recording. Always turn off the device before inserting or removing the SD card.
- **Cleaning:** Use a soft, dry cloth to clean the display screen and camera lens. Avoid using abrasive cleaners or solvents that could damage the surfaces.
- **Mounting Stability:** Regularly check the stability of the dashboard base or suction cup mount. If using the suction cup, clean it with soap and water and dry it thoroughly, and wipe the windshield with isopropyl alcohol for a firmer mount.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Vast Pro Dash Cam.

Problem	Possible Cause	Solution
Image noise in dark environments / Overexposure in strong light	Inherent characteristic of starlight level night vision technology.	This is normal behavior. The device is designed to optimize for faint light conditions. Adjust HDR/WDR settings if available.

Problem	Possible Cause	Solution
Bouncy or unstable picture	Loose mounting.	Ensure the mount (dashboard base or suction cup) is firmly secured. For suction cup, clean it and the windshield thoroughly before re-mounting.
Device not powering on (24V vehicle)	Direct connection to 24V OBD port.	For 24V vehicles, use a car charger with a 24V to 12V voltage converter. Do not connect directly to the OBD port.
SD card error / Recording issues	SD card not formatted, corrupted, or removed while device was on.	Format the Micro SD card via the device settings. Always turn off the device before inserting or removing the SD card. Ensure the card is a Micro SDXC up to 128GB.
Real-time clock incorrect after power off	Internal clock battery depleted after extended power-off.	The clock retains time for 7-15 days. If powered off longer, reset the time when reconnecting to power.

## 8. SPECIFICATIONS

Feature	Detail
Brand	LANMODO
Model Name	RM
ASIN	B093WRYKZV
Product Dimensions	3.94 x 7.87 x 3.15 inches
Item Weight	2.57 pounds
Color	black
Connectivity Technology	Auxiliary
Special Features	Loop Recording, Built-In Display, Supercapacitor, Microphone, Night Vision, Parking Monitor, G-Sensor, Motion Sensing, Automatic Incident Detection
Video Capture Resolution	1080p
Mounting Type	Dashboard Mount, Windshield Mount
Operating Temperature Range	-4°F to 158°F (20°C-70°C)
Max SD Card Support	Micro SDXC up to 128GB

Feature	Detail
Vehicle Service Type Compatibility	Minivan, Bus, Motorcycle, ATV, RV, Car, UTV, Truck, Tractor (Fits 99% car models)

## 9. WARRANTY AND SUPPORT

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LANMODO provides comprehensive support for your Vast Pro Dash Cam.

- **Warranty:** The product comes with a 12-month warranty from the date of purchase.
- **Customer Service:** 24/7 customer service is available to assist with any inquiries or issues. Please refer to the contact information provided in your product packaging or on the official LANMODO website for support.