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NavGear MDV-3840

NavGear MDV-3840 4K UHD Dash Cam with Rear Camera User Manual

Model: MDV-3840 (Reference: ZX3312-944) | Brand: NavGear

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your NavGear MDV-3840 4K UHD Dash Cam with Rear Camera. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

The NavGear MDV-3840 is a high-performance dash camera system designed to record your journeys in 4K Ultra HD resolution for the front camera and 2K for the rear camera. It features integrated GPS, Wi-Fi connectivity for smartphone control, G-sensor for incident detection, parking monitoring, and advanced imaging technologies like HDR and WDR for clear recordings in various lighting conditions.

2. Safety Information

- Do not operate the dash cam or its app while driving. Always ensure your full attention is on the road.
- Install the dash cam in a location that does not obstruct your view of the road or interfere with airbag deployment.
- Use only the provided power adapter and cables. Using unauthorized accessories may damage the device and void the warranty.
- Avoid exposing the device to extreme temperatures, direct sunlight for extended periods, or excessive moisture.
- Do not attempt to disassemble or repair the device yourself. Contact qualified service personnel for assistance.
- Ensure the MicroSD card is inserted correctly before powering on the device.
- Regularly format the MicroSD card to maintain optimal recording performance.

3. Package Contents

Please check the package for the following items:

- NavGear MDV-3840 Dash Cam (Main Unit)
- Rear Camera
- Connection Cable for Rear Camera
- Suction Cup Mount
- GPS Module

- Car Power Adapter (Cigarette Lighter)
- USB Adapter Cable
- User Manual (This document)

Note: A MicroSD card is not included and must be purchased separately.

4. Product Overview

Familiarize yourself with the components of your dash cam system.



Image 1: NavGear MDV-3840 Dash Cam main unit with suction cup mount and the separate rear camera. This image illustrates the primary components of the dash cam system, including the front-facing camera with its mounting mechanism and the smaller rear camera.



Image 2: Front and rear view of the NavGear MDV-3840 Dash Cam main unit, showing the 2.4-inch IPS display and the front camera lens. This view highlights the user interface screen and the primary recording lens.

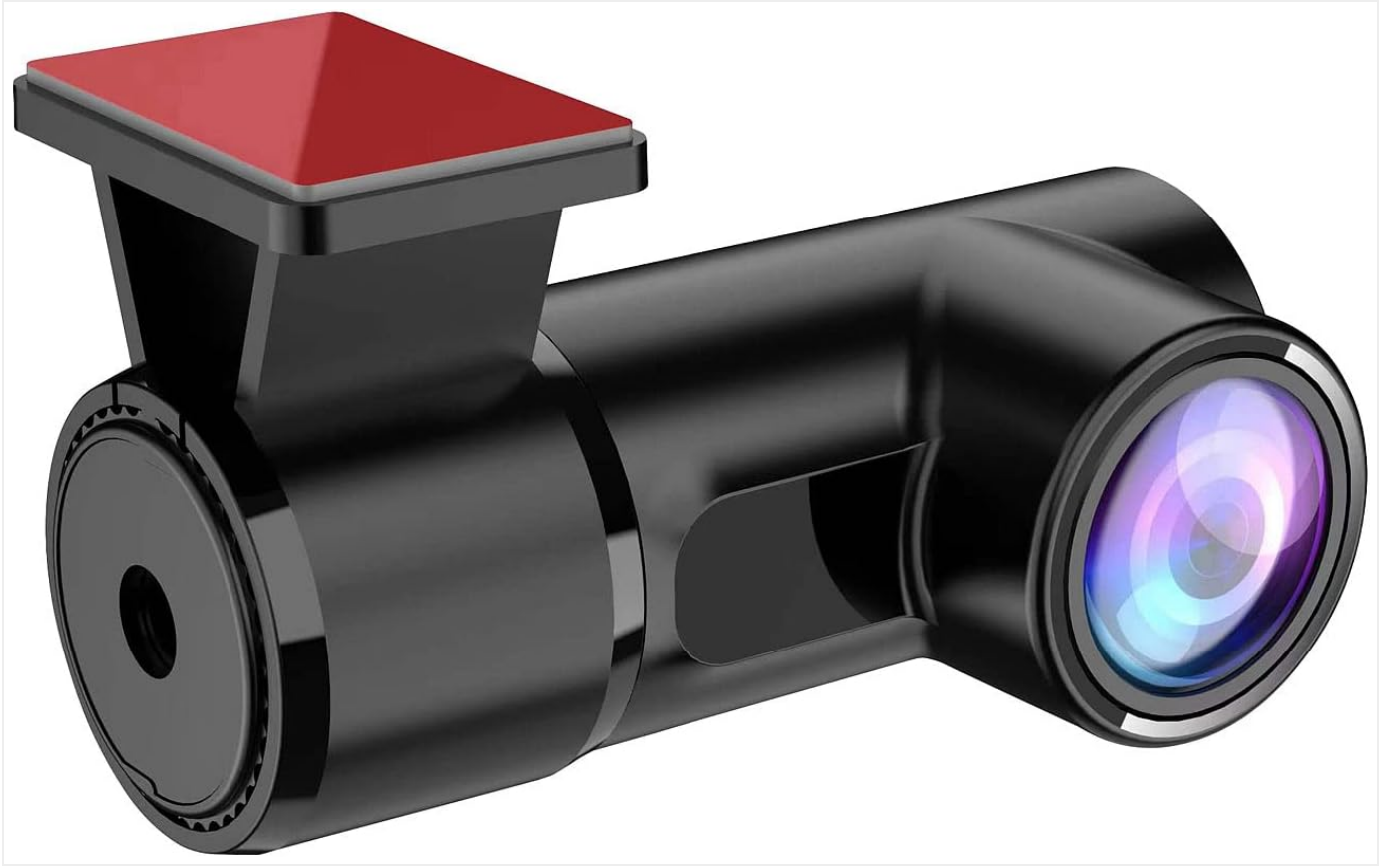


Image 3: Close-up view of the NavGear MDV-3840 rear camera, designed for discreet installation. This image focuses on the compact design of the secondary camera.

Main Unit Features:

- **Front Camera Lens:** Records 4K UHD video.
- **2.4" IPS Display:** For live view, playback, and menu navigation.
- **Control Buttons:** For menu navigation and function control.
- **MicroSD Card Slot:** For storage (up to 256 GB).
- **Power Port:** Connects to the car power adapter.
- **Rear Camera Input:** Connects the rear camera cable.
- **Microphone/Speaker:** For audio recording and playback.
- **Suction Cup Mount Slot:** For attaching the mounting bracket.

Rear Camera Features:

- **Rear Camera Lens:** Records 2K video with a 140° field of view.
- **Adhesive Mount:** For secure attachment to the rear window.
- **Connection Port:** Connects to the main unit via the provided cable.

5. Setup and Installation

5.1 Inserting the MicroSD Card

1. Ensure the dash cam is powered off.
2. Locate the MicroSD card slot on the main unit.
3. Insert a compatible MicroSD(HC/XC) card (Class 10 or higher, up to 256 GB) into the slot until it clicks into place.
4. To remove, gently push the card in until it springs out.

Note: It is recommended to format the MicroSD card within the dash cam's settings before first use and periodically thereafter to ensure stable recording.

5.2 Installing the Main Unit

1. Clean the chosen area on your windshield thoroughly.
2. Attach the suction cup mount to the main unit.
3. Press the suction cup firmly against the windshield and flip the lever to secure it.
4. Adjust the camera angle to ensure a clear view of the road ahead, avoiding obstruction from the rearview mirror or wipers.



Image 4: The NavGear MDV-3840 Dash Cam main unit installed on a car windshield, demonstrating a typical mounting position. This image shows the dash cam's placement to capture the road ahead without obstructing the driver's view.

5.3 Installing the Rear Camera

1. Identify a suitable location on your rear window, typically at the top center, ensuring a clear view.

2. Clean the chosen area thoroughly.
3. Peel off the protective film from the adhesive mount on the rear camera.
4. Firmly press the rear camera onto the cleaned surface.
5. Route the rear camera connection cable discreetly along the headliner and pillars to the main unit.
6. Connect the rear camera cable to the designated input port on the main unit.

5.4 Connecting Power and GPS Module

1. Connect the GPS module to its dedicated port on the main unit. Position the GPS module where it has a clear view of the sky for optimal signal reception.
2. Plug the car power adapter into your vehicle's cigarette lighter socket.
3. Connect the other end of the power adapter cable to the main unit's power input.
4. Route all cables neatly to avoid obstructing your view or interfering with driving controls.

The dash cam will automatically power on and begin recording when your vehicle's ignition is turned on (if connected to a switched power source).

6. Operating Instructions

6.1 Basic Recording

- Once powered on, the dash cam will automatically start continuous loop recording. Video files are saved in segments (e.g., 1, 3, or 5 minutes) to the MicroSD card.
- When the MicroSD card is full, the oldest unprotected files will be overwritten by new recordings.
- The 2.4" IPS display will show the live view from the front and/or rear camera.

6.2 G-Sensor (Emergency Recording)

- The built-in G-sensor detects sudden impacts or rapid acceleration/deceleration.
- Upon detection, the current video segment is automatically locked and protected from being overwritten. These files are stored in a separate "Event" folder on the MicroSD card.
- The sensitivity of the G-sensor can be adjusted in the settings menu.

6.3 Parking Monitoring

- With the parking monitoring feature enabled, the dash cam can record incidents even when the vehicle is parked and the ignition is off.
- The integrated 300 mAh lithium-ion battery provides power for parking surveillance, allowing up to 35 minutes of recording.
- The camera will activate and record if it detects a collision or motion (depending on settings) while parked.

6.4 Wi-Fi Connectivity and Smartphone App

- Download the free "NavGear" app (or similar, check product packaging/manual for exact app name) from the App Store (iOS) or Google Play Store (Android).
- Enable Wi-Fi on your dash cam via the settings menu.
- On your smartphone, connect to the dash cam's Wi-Fi network (SSID and password usually displayed on the dash cam screen).
- Use the app to:
    - View live footage from both cameras.

- Access and download recorded videos to your smartphone.
- Adjust dash cam settings.
- View your driving route on a map (using GPS data).



Image 5: The NavGear MDV-3840 Dash Cam displaying its screen alongside a smartphone showing the connected mobile application. This image demonstrates the Wi-Fi connectivity feature and how the app can be used to interact with the dash cam.

6.5 GPS Functionality

- The integrated GPS module records your vehicle's speed, location coordinates, and driving route.
- This data is embedded in the video files and can be viewed using the smartphone app or a compatible PC player.

6.6 HDR and WDR

- High Dynamic Range (HDR) and Wide Dynamic Range (WDR) technologies automatically adjust exposure to capture optimal detail in both bright and dark areas of the image.
- This ensures clear video quality even in challenging lighting conditions, such as entering/exiting tunnels or driving against strong sunlight.

6.7 Color Night Vision

- The Sony CMOS sensor enhances light sensitivity, providing improved color night vision capabilities.

- This feature helps capture clearer footage in low-light environments.

6.8 Time-Lapse Recording

- Time-lapse recording allows you to capture long periods of activity (e.g., parking surveillance) into a condensed video.
- This feature can be enabled in the dash cam's settings.

6.9 Date and Time Stamp

- Recordings can include a date and time stamp, which can be enabled or disabled in the settings.
- This provides crucial information for incident verification.

7. Maintenance

7.1 Cleaning the Device

- Gently wipe the camera lenses and screen with a soft, lint-free cloth.
- Do not use abrasive cleaners or solvents, as they may damage the surfaces.
- Ensure the device is powered off and disconnected from power before cleaning.

7.2 MicroSD Card Management

- Regularly format the MicroSD card (e.g., once a month) using the dash cam's menu option. This helps prevent data corruption and ensures smooth recording.
- Replace the MicroSD card if you notice any recording errors or performance degradation.

8. Troubleshooting

Problem	Possible Cause	Solution
Dash cam does not power on.	No power supply; faulty power adapter; loose connection.	Check car ignition; ensure power adapter is securely plugged in; try a different power source if available.
Recording stops or freezes.	MicroSD card error; card full; incompatible card; faulty card.	Format the MicroSD card; replace with a new, compatible card (Class 10 or higher).
Poor video quality.	Dirty lens; protective film still on lens; incorrect resolution settings.	Clean the lens; remove any protective film; check video resolution settings in the menu.
Wi-Fi connection issues.	Incorrect Wi-Fi password; too far from dash cam; app not updated.	Ensure correct password; move closer to the dash cam; update the app to the latest version.
GPS signal not found.	GPS module obstructed; poor satellite reception.	Ensure GPS module has a clear view of the sky; wait longer for signal acquisition.
Settings are not saved after power off.	Internal battery issue; firmware bug.	Ensure the dash cam is receiving consistent power; check for available firmware updates.

9. Specifications

Feature	Detail
Model Name	NavGear Autocam (MDV-3840)
Manufacturer Reference	ZX3312-944
Front Camera Video Resolution	3840 x 2160 px (4K Ultra HD, interpolated) at 30 fps
Rear Camera Video Resolution	2K
Field of View	140° (Front and Rear)
Image Sensor	Sony 5 Mpx CMOS color sensor
Video Compression	H.264
Video Format	MP4
Display Size	2.4" IPS color screen
Storage	MicroSD(HC/XC) card slot, up to 256 GB (not included)
Connectivity	Wi-Fi, GPS
Compatible Devices	iOS, Android (via free app)
Power Supply	12V/24V car cigarette lighter adapter (5V / 2A / 10W output)
Backup Battery	Integrated 300 mAh Lithium-ion, up to 35 min recording
Dimensions	97 x 50 x 31 mm
Weight	290 g
Special Features	G-sensor, HDR, WDR, Color Night Vision, Parking Monitoring, Time-Lapse Recording, Microphone, Speaker



Image 6: A visual summary of key features for the NavGear MDV-3840 Dash Cam, including 4K Ultra HD, Built-in Wi-Fi, Built-in GPS, Speed Display, 2-inch IPS Screen, 256G Card Support, Parking Monitoring, Night Vision, and WDR. This graphic provides a quick overview of the device's capabilities.

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided by your retailer or contact NavGear customer service directly. Keep your proof of purchase for warranty claims.
For the latest information, firmware updates, and frequently asked questions, please visit the official NavGear website.

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