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› VANBAR DC409 Mirror Dash Cam User Manual

VANBAR DC409

VANBAR DC409 Mirror Dash Cam User Manual

Model: DC409 | Brand: VANBAR

1. INTRODUCTION

Thank you for purchasing the VANBAR DC409 Mirror Dash Cam. This device is designed to provide reliable front and rear vehicle recording, enhancing your driving safety and providing crucial evidence in case of incidents. This manual will guide you through the installation, operation, and maintenance of your new dash cam. Please read it thoroughly before use.

ズーム機能搭載



画面の拡大・縮小 



角度調整可能 



前後カメラ同時表示 

Figure 1.1: The VANBAR DC409 Mirror Dash Cam main unit.

2. PRODUCT OVERVIEW AND COMPONENTS

The VANBAR DC409 is a high-performance mirror dash cam featuring 4K front and 2.5K rear recording. Key components are listed below:

- Main Mirror Unit (with integrated front camera)
- Rear Camera (IP68 waterproof)

- GPS Module
- Power Cable (Type-C)
- Rear Camera Extension Cable
- 128GB MicroSD Card (pre-installed or included)
- Mounting Straps/Accessories
- Anti-reflection Film



Figure 2.1: Main components included with the DC409 dash cam.

3. SETUP

3.1. MicroSD Card Insertion

Insert the provided 128GB MicroSD card into the designated slot on the main mirror unit. Ensure it is inserted correctly until it clicks into place. The device supports Class 10 high-durability cards.

3.2. Main Unit Installation

Attach the main mirror unit over your vehicle's existing rearview mirror using the provided mounting straps. Ensure it is securely fastened and does not obstruct your view.

3.3. Front Camera Installation (Separated Design)

The front camera is separated from the main unit. Mount it on the windshield in a position that provides a clear view of the road ahead, avoiding obstructions like brake sensors or stickers. The camera can rotate 270 degrees for optimal angle adjustment.

当社製品DC409PRO:

録画漏れゼロ、安定・信頼性抜群

低電圧保護 & バッテリー保護技術

128GB 高速micro SDカード標準装備

明暗差の激しい場景もくっきり記録

VS

従来品:

フレーム落ち・録画漏れが発生しやすい

保護機能なし、車のバッテリー上がりリスク

64GB micro SDカード

逆光・暗所で重要情報をキャッチできない



HDR / WDR搭載



黒つぶれ



白飛び

Figure 3.1: The separated front camera design allows for flexible placement and angle adjustment.

3.4. Rear Camera Installation

Install the IP68 waterproof rear camera at the rear of your vehicle. It can be mounted inside or outside the vehicle. Connect it to the main unit using the provided extension cable. Route the cable carefully to avoid interference with vehicle operations.

3.5. Power and GPS Connection

Connect the Type-C power cable to the main unit and plug the other end into your vehicle's cigarette lighter socket. Connect the GPS module to the main unit. Ensure all cables are routed neatly and securely.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off

The dash cam will automatically power on and begin recording when your vehicle's ignition is turned on. It will power off automatically when the ignition is turned off.

4.2. Basic Recording

Upon powering on, the device will automatically start loop recording. Older files will be overwritten by new recordings once the MicroSD card is full, ensuring continuous recording. Important files saved by the G-sensor will not be overwritten.

4.3. Touch Screen Operations

The 11-inch touch screen allows for easy navigation of menus and settings. Swipe gestures can be used for various functions:

- **Zoom Function:** Swipe up or down on the screen to adjust the zoom level of the rear camera view. This allows for clearer identification of distant objects or license plates.
- **Angle Adjustment:** Swipe left or right on the screen to adjust the viewing angle of the camera.
- **Brightness Adjustment:** Access brightness settings via the on-screen menu.
- **Front/Rear View Switching:** Tap the screen to switch between front, rear, or split-screen views.



Figure 4.1: Utilize the touch screen for zoom and angle adjustments.

FRONT 4K

REAR 2560*1440P



業界を突破する技術、BSD運転補助

超鮮明な4K映像

800万画素（3480＊2160P）の録画ができる今までに見たことがないほど高画質

4K 4k UHD	IPS 最新UIデザイン	 BSD運転補助	 LCA運転補助	 電波干渉対策	 音声制御
 24時間駐車監視	 GPS	 夜間暗視機能	 衝突録画	 ループ録画	 バックガイドライン

Figure 4.2: The display can show front and rear camera views simultaneously.

4.4. Voice Control

The device supports voice commands for hands-free operation. Refer to the on-screen menu or the detailed Japanese manual for a list of available commands.

5. ADVANCED FEATURES

5.1. GPS Functionality

The integrated GPS module records your vehicle's speed, direction, and location along with the video footage. This data can be reviewed on a computer using dedicated software (details in the full manual) to track driving routes.



Figure 5.1: GPS data allows for playback of driving routes on a computer.

5.2. 24-Hour Parking Surveillance

When the vehicle is parked, the dash cam can monitor for impacts or vibrations. If an event is detected, it will automatically record footage, providing protection against vandalism or hit-and-runs. This feature requires a continuous power supply, often achieved with a dedicated step-down cable (sold separately).

5.3. G-Sensor (Impact Recording)

The built-in 3-axis G-sensor detects sudden impacts or collisions. When an impact is detected, the device automatically locks the current recording, preventing it from being overwritten by loop recording. This ensures critical accident footage is preserved.

5.4. Backlink Function (Reverse Assist)

When shifting into reverse, the rear camera view is automatically displayed on the screen, and the camera angle adjusts downwards to show the area directly behind the vehicle. Adjustable guidelines are provided to assist with parking. The length and angle of these guidelines can be customized to suit your vehicle.

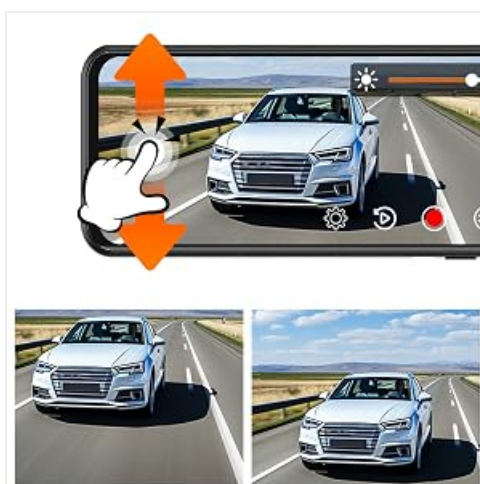


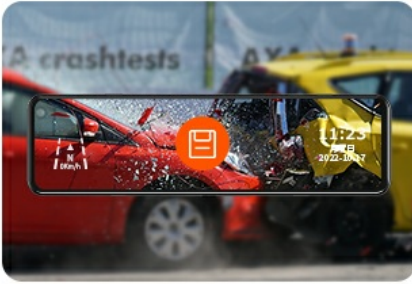
Figure 5.2: Customize parking guidelines for precise reversing.

5.5. Super Night Vision with HDR/WDR

Equipped with an F1.8 bright lens and the Sony IMX415 sensor, combined with HDR (High Dynamic Range) and WDR

(Wide Dynamic Range) technologies, the DC409 provides superior night vision. It captures clear details in both extremely bright and dark areas, ensuring license plates and other critical information are visible even in low-light conditions or against strong headlights.

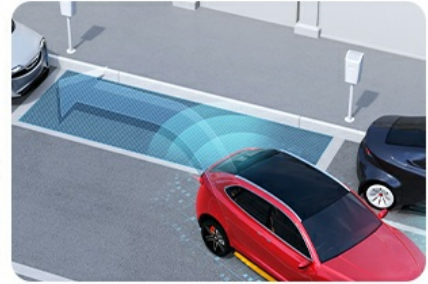
肝心の6つの機能で安全なドライブをサポート



Gセンサー



ループ録画



バックガイドモニター



駐車監視



LED信号対応



GPS搭載

Figure 5.3: Comparison of video quality with and without HDR/WDR in challenging lighting.

5.6. AI ISP Technology

The Artificial Intelligence Image Signal Processor (AI ISP) enhances image processing efficiency, maintaining clarity and stability across various driving conditions. This technology effectively reduces blur and ghosting, and processes data internally to protect user privacy.

5.7. Type-C Power Connection

The DC409 utilizes a Type-C power cable, offering improved stability, convenience, durability, and heat resistance compared to older Type-B connections. This design minimizes issues such as power interruptions or device restarts.

高性能ズーム機能搭載で細部まで鮮明に

この後方カメラは、高性能なズーム機能を搭載しており、遠くの車両ナンバーや道路標識など、重要な詳細を鮮明に捉えることができます。ズーム機能により、通常では見逃してしまうような細かい情報も確実に記録。事故や不測の事態が発生した際に、決定的な証拠となる可能性が高まります。また、車内・車外用の取り付けマウントが付属しており、様々な設置環境に対応。



他とは違う、本物の24時間駐車監視





**シガーソケットに
差すだけでOK！**
車のエンジンをオンにするとレコーダーも自動で電源が入り、エンジンを切れば自動で電源が切れます。



**降圧線（別売）
ケーブルを使うと：**
車のエンジンを切った後も録画可能！24時間体制で愛車を守る駐車監視機能を実現します。

Figure 5.4: Advantages of the Type-C power interface over Mini USB.

5.8. TS Format Recording

The device records in TS (MPEG2-TS) format, which provides faster transfer speeds and enhanced data integrity. This format helps prevent recording errors and data loss, allowing for more reliable long-term storage of footage.

5.9. LED Signal Compatibility

The DC409 is designed to accurately record LED traffic lights across Japan, regardless of regional power frequency differences. This ensures that the color of traffic lights is clearly captured in recordings, which can be crucial for accident analysis.

6. MAINTENANCE

6.1. MicroSD Card Care

Regularly format the MicroSD card (e.g., once a month) to maintain optimal performance and prevent data corruption. Use only high-quality Class 10 or higher MicroSD cards. Replace the card if you notice any recording issues or errors.

6.2. Cleaning

Wipe the camera lenses and screen with a soft, dry cloth to remove dust and smudges. Avoid using abrasive cleaners or solvents that could damage the surfaces.

7. TROUBLESHOOTING

If you encounter any issues with your VANBAR DC409, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Loose power connection, faulty power cable, vehicle's cigarette lighter socket issue.	Check power cable connection. Ensure the vehicle's cigarette lighter socket is working. Try a different power source if available. Press the reset button if the device has one.
Recording stops or files are corrupted.	MicroSD card full, faulty MicroSD card, incompatible MicroSD card.	Format the MicroSD card. Replace the MicroSD card with a new Class 10 (or higher) card from a reputable brand.
Image is blurry or unclear.	Dirty lens, protective film still on lens, incorrect focus/settings.	Clean the camera lenses. Ensure any protective films are removed. Check video resolution settings.
GPS signal not acquired or inaccurate.	GPS module obstructed, faulty GPS module, poor satellite reception.	Ensure the GPS module has a clear view of the sky. Check the GPS module connection.
TV/Radio signal interference.	Electromagnetic interference from the dash cam.	Try repositioning the dash cam or its cables. Ensure proper grounding if possible.
Rear camera image is reversed or upside down.	Incorrect settings for image flip/mirror.	Access the settings menu to adjust the image flip (vertical) and mirror (horizontal) options for the rear camera.

8. SPECIFICATIONS

Feature	Specification
Model Number	DC409
Front Camera Resolution	4K UHD (3840x2160)
Rear Camera Resolution	2.5K
Image Sensor	Sony IMX415
Display Size	11 inches (1920x480 pixels)
Lens Aperture	F1.8
Video Format	TS (MPEG2-TS)
Storage	Supports MicroSD card (128GB Class 10 included)
Power Interface	Type-C
Special Features	GPS, G-Sensor, Touch Screen, Parking Monitor, Reverse Assist, Loop Recording, Voice Control, HDR/WDR, AI ISP, LED Signal Compatibility

Feature	Specification
Product Dimensions	27.3 x 4.5 x 7.1 cm
Weight	1.04 kg

9. WARRANTY AND SUPPORT

Your VANBAR DC409 Mirror Dash Cam comes with a standard manufacturer's warranty. Please refer to the product packaging or the detailed Japanese instruction manual for specific warranty terms and conditions.

For technical support, inquiries about accessories (such as a dedicated in-car rear camera mount or a step-down cable for 24-hour parking surveillance), or any other assistance, please contact our customer support. Contact details can be found on the last page of the comprehensive instruction manual included with your product.