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› [VANBAR DC209Pro Mirror Dash Cam User Manual - 4K Front + 2.5K Rear, BSD, LCA, GPS](#)

VANBAR DC209Pro

VANBAR DC209Pro Mirror Dash Cam User Manual

Model: DC209Pro | Brand: VANBAR

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VANBAR DC209Pro Mirror Dash Cam. Please read this manual thoroughly before using the product to ensure proper function and safety. The VANBAR DC209Pro is an advanced mirror-type dash cam featuring a separated camera design, 4K front recording, 2.5K rear recording, and integrated safety features like Blind Spot Detection (BSD) and Lane Change Assist (LCA).

2. PRODUCT OVERVIEW

The VANBAR DC209Pro is designed to provide comprehensive vehicle surveillance and driving assistance. It includes a main mirror unit, a separated front camera, a waterproof rear camera, and essential accessories for installation and operation.

Key Features:

- **Ultra HD Recording:** 4K (3840x2160P) front camera and 2.5K (2560x1440P) rear camera.
- **Separated Camera Design:** Allows flexible installation of the front camera.
- **Advanced Safety Systems:** Blind Spot Detection (BSD) and Lane Change Assist (LCA).
- **Superior Night Vision:** Equipped with IMX415 CMOS sensor and HDR technology for clear low-light recording.
- **Integrated GPS:** Records speed, direction, and allows route playback.
- **24-Hour Parking Monitoring:** G-sensor activated recording for vehicle protection.
- **Voice Control:** Hands-free operation for various functions.
- **Type-C Power Interface:** Enhanced charging speed, stability, and durability.
- **128GB MicroSD Card Included:** High-durability Class 10 card for immediate use.
- **TS Format Recording:** Ensures data integrity and prevents file corruption.

Package Contents:

- VANBAR DC209Pro Mirror Dash Cam Main Unit
- Front Camera
- Rear Camera (Waterproof)
- 128GB MicroSD Card
- GPS Module
- Cigarette Lighter Power Cable
- Hardwire Kit (for 24-hour parking monitoring)
- Rear Camera Extension Cable (8m)
- Mounting Straps (2 sizes)
- Anti-reflection Film
- Cleaning Cloth
- User Manual



Image 2.1: Main unit and included accessories.

VANBAR DC209Pro

分離式 / 11インチ / フロントカメラ4K+リアカメラ2.5K



Image 2.2: Overview of the DC209Pro's core functions.

3. SETUP

3.1 Pre-Installation Check

Before permanent installation, connect all components (main unit, front camera, rear camera, power cable) and test the system to ensure all functions are working correctly. Use the provided cigarette lighter power cable for this test.

3.2 MicroSD Card Insertion

Insert the included 128GB MicroSD card into the designated slot on the main unit. Ensure it is inserted correctly until it clicks into place.

3.3 Main Unit Installation

1. Attach the main mirror unit to your vehicle's existing rearview mirror using the provided rubber straps. Ensure it is securely fastened and does not obstruct your view.
2. Apply the anti-reflection film to the mirror screen to reduce glare during daytime use.

3.4 Front Camera Installation

The front camera is separated from the main unit. Mount it on your windshield, ideally behind the rearview mirror, to ensure a clear view of the road ahead without obstructing your driving visibility. Connect it to the main unit using the provided cable.

3.5 Rear Camera Installation

The rear camera is waterproof and can be installed either inside or outside the vehicle. For external installation, typically above the license plate, ensure the camera is securely mounted and the cable is routed safely to the main unit. The included cable is 8 meters long. If a dedicated bracket is required for your vehicle type, please consult our service center.

2.5K高画質 防水仕様リアカメラ 車内／車外対応

ご注意：付属のリアカメラの配線は8mです。もし足りない場合、弊社のアフターサービスまでに連絡してください。こちらは無料で提供できます。車種によっては、リアカメラの車内取り付けには専用のブラケットが必要な場合がありますので、当社のサービスセンターまでご相談ください。こちらは無料で提供できます。



上下反転／左右鏡像切替

車種により、リアカメラの設置場所と方向が変わる場合があります。その状況を考えて、弊社のリアカメラが上下反転／左右鏡像切替機能を付きました。

原像



左右反転



原像



上下反転



Image 3.1: Example of rear camera installation.

3.6 Power Connection

1. Connect the cigarette lighter power cable to the main unit and your vehicle's cigarette lighter socket.
2. For 24-hour parking monitoring, install the included hardwire kit (buck line) according to the instructions provided with the kit. This allows the dash cam to receive power even when the engine is off.

3.7 GPS Module Connection

Connect the GPS module to the main unit. Position the module in an area with a clear view of the sky for optimal signal reception, typically on the dashboard or near the windshield.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **Automatic:** The device will automatically power on and begin recording when the vehicle engine starts (power is supplied). It will power off automatically when the engine is turned off.
- **Manual:** Press and hold the power button on the main unit to manually turn the device on or off.

4.2 Screen Operation

The DC209Pro features an IPS full-touch 2.5D screen. Navigate through menus and settings by swiping and tapping the screen, similar to a smartphone. The user interface (UI) is designed for intuitive operation.



Image 4.1: Intuitive UI design for easy navigation.

4.3 Basic Recording

Once powered on, the dash cam will automatically start loop recording. Video files are saved to the MicroSD card. When the card is full, the oldest unprotected files will be overwritten.

4.4 Voice Control

The DC209Pro supports voice commands for hands-free operation. Refer to the detailed user manual for a list of available voice commands.

5. ADVANCED FEATURES

5.1 Blind Spot Detection (BSD)

The BSD system detects obstacles (vehicles, pedestrians) in your blind spots, areas not visible in your side mirrors or directly behind your vehicle. When an object is detected, the system provides visual alerts (colored frames on the screen: blue for safe distance, yellow for dangerous distance) and audible warnings to alert the driver.

5.2 Lane Change Assist (LCA)

The LCA system detects vehicles rapidly approaching from adjacent lanes behind you. When such a vehicle is detected, an orange indicator appears on the left or right side of the monitor (depending on the direction of the approaching vehicle), accompanied by an audible warning. Both BSD and LCA detection ranges and speeds can be adjusted based on driving habits.

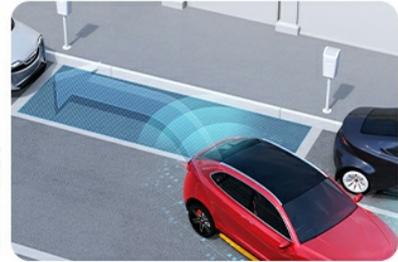
肝心な6つの機能で安全なドライブをサポート



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

Image 5.1: Visual representation of BSD and LCA functionality.

5.3 GPS Functionality

The integrated GPS module records your vehicle's driving speed, direction, and location data along with the video footage. This data can be reviewed on a computer using dedicated playback software, allowing you to track your route.



Image 5.2: GPS tracking and route playback interface.

5.4 24-Hour Parking Monitoring

With the hardwire kit installed, the dash cam can monitor your vehicle for 24 hours. The built-in 3-axis G-sensor detects impacts or vibrations while parked. Upon detection, the device automatically starts recording and saves the footage to a dedicated folder, preventing it from being overwritten by loop recording. This feature is crucial for recording hit-and-run incidents or vandalism.

5.5 G-Sensor (Impact Recording)

During driving, if the G-sensor detects a sudden impact or collision, it automatically triggers emergency recording. This footage is then locked and saved in a separate folder, ensuring critical evidence is protected

and not overwritten.

5.6 Backup Guide Line

When reversing, the rear camera display automatically shows adjustable backup guidelines. You can customize the length and angle of these lines to match your vehicle and parking preferences. The adjusted settings will be saved for future use.



Image 5.3: Adjustable backup guidelines for precise parking.

5.7 Night Vision and HDR Technology

The DC209Pro utilizes an IMX415 sensor and HDR (High Dynamic Range) technology to capture clear and

detailed footage even in challenging low-light conditions, such as city streets at night or areas with minimal streetlights. This significantly improves visibility compared to standard dash cams, ensuring license plates and other crucial details are recorded.

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安定性UP 便利性UP 耐久性UP

TYPE- C	Mini USB
 TYPE- C  AV-IN  TF	 USB  AV-IN  TF
 どちらの向きから挿入でも可能	 方向を間違っていると、破損しやすいです
 最大耐え電流5A	 最大耐え電流2.5A
 最大高速充電スピード500 Mbps	 最大高速充電スピード30 Mbps
 高温耐性が高い	 高温で変形しやすい、壊れやすい
 電力の供給が安定	 電力の供給が不安定

Image 5.4: Enhanced night vision with SONY IMX415 sensor.

5.8 Type-C Power Interface

The DC209Pro features a Type-C power interface, offering improved charging speed, stability, convenience, and durability compared to traditional Mini USB (Type-B) interfaces. This design addresses common issues like power drops, reboots, and deformation in high temperatures.

SONYセンサー搭載

昼間だけでなく、夜でも雨の中でも、あらゆる細部がくっきりと見える。



Image 5.5: Advantages of Type-C power interface.

6. MAINTENANCE

6.1 MicroSD Card Care

The included 128GB Class 10 MicroSD card is designed for high durability. To maintain optimal performance and prevent data loss, it is recommended to format the MicroSD card periodically (e.g., once a month) through the dash cam's settings menu. Avoid removing the card while the device is powered on or recording.

6.2 Cleaning

Regularly clean the camera lenses and the mirror screen with a soft, dry, lint-free cloth. Do not use abrasive cleaners or solvents, as they may damage the surfaces. Ensure the rear camera lens is kept clear of dirt and debris, especially if externally mounted.

7. TROUBLESHOOTING

If you encounter any issues with your VANBAR DC209Pro, please refer to the following common

troubleshooting steps. For more detailed solutions, consult the full user manual or contact customer support.

- **Device not powering on:** Ensure the power cable is securely connected to both the dash cam and the power source (cigarette lighter or hardwire kit). Check the vehicle's power outlet for functionality.
- **Recording issues:** Ensure the MicroSD card is inserted correctly and has sufficient free space. Format the card if necessary. Check recording settings in the menu.
- **Poor video quality:** Clean the camera lenses. Ensure the protective film has been removed from the lenses. Adjust exposure settings if available.
- **GPS signal loss:** Ensure the GPS module is positioned with a clear view of the sky. Avoid placing it under metallic objects that may interfere with the signal.
- **Screen reflection:** Apply the included anti-reflection film to the mirror screen.

8. SPECIFICATIONS

Feature	Specification
Model Name	DC209Pro
Screen Size	11 inches
Front Camera Resolution	4K (3840x2160P)
Rear Camera Resolution	2.5K (2560x1440P)
Image Sensor	IMX415 CMOS
Special Features	BSD, LCA, GPS, WDR, HDR, G-Sensor, Loop Recording, 24-Hour Parking Monitor, Voice Control, Backup Guide Line, LED Signal Compatible
Power Interface	Type-C
Included Storage	128GB MicroSD Card (Class 10)
Mounting Type	Adhesive (Mirror Straps)
Product Dimensions	26 x 7.2 x 4.3 cm
Product Weight	1.07 kg

9. WARRANTY AND SUPPORT

9.1 Product Warranty

The VANBAR DC209Pro Mirror Dash Cam comes with a **3-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use. Please retain your proof of purchase for warranty claims.

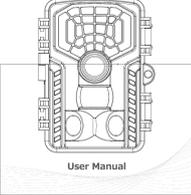
9.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact VANBAR customer support. Our support team is dedicated to providing prompt and helpful assistance. Contact details can typically be found on our official website or through your purchase platform.

We recommend checking our official website for the latest software updates and frequently asked questions (FAQs).

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Related Documents - DC209Pro

 <p>VANBAR DC400 4K Dash Cam USER MANUAL</p>	<p>VANBAR DC400 4K Dash Cam User Manual Installation, Features & Troubleshooting</p> <p>Comprehensive user manual for the VANBAR DC400 4K Dash Cam. Covers installation, product overview, operating modes, app connectivity, specifications, troubleshooting, and FCC compliance.</p>
 <p>VANBAR D700 4K WIFI Trail Camera User Manual</p>	<p>VANBAR D700 4K WIFI Trail Camera User Manual</p> <p>Comprehensive user manual for the VANBAR D700 4K WIFI Trail Camera, covering setup, operation, settings, troubleshooting, and technical specifications.</p>
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