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› [VANBAR DC209Pro-02 4K Split Mirror Dash Cam User Manual](#)

VANBAR DC209Pro-02

VANBAR DC209Pro-02 4K Split Mirror Dash Cam User Manual

Model: DC209Pro-02 | Brand: VANBAR

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[Warranty & Support](#)

1. INTRODUCTION

Thank you for choosing the VANBAR DC209Pro-02 4K Split Mirror Dash Cam. This device is designed to enhance your driving safety and provide reliable recording of your journeys. It features a high-resolution front camera, a waterproof rear camera, advanced driver assistance systems (BSD and LCA), GPS functionality, and 24-hour parking monitoring. Please read this manual thoroughly before installation and operation to ensure proper use and optimal performance.

2. KEY FEATURES

- **Ultra HD 4K Front & 2.5K Rear Recording:** Captures clear and detailed footage with an 8-megapixel IMX415 sensor for the front camera and 2.5K for the rear, ensuring critical details like license plates are visible.
- **Split-Type Design:** The front camera is separate from the main mirror unit, allowing for flexible installation and a wider, clearer front view.
- **Blind Spot Detection (BSD) & Lane Change Assist (LCA):** Advanced driver assistance systems that detect vehicles in your blind spots or rapidly approaching from behind in adjacent lanes, providing visual and audible alerts.
- **Super Night Vision with HDR:** Equipped with an F1.8 bright lens and HDR technology, the dash cam provides excellent visibility in low-light conditions, capturing clear images even at night or in tunnels.
- **Integrated GPS Functionality:** Records driving speed, direction, and location data along with video footage, which can be reviewed on a computer to track your route.
- **24-Hour Parking Monitoring:** Automatically records when impact is detected while parked, providing security against hit-and-runs or vandalism. Requires a hardwire kit (included).
- **G-Sensor & Loop Recording:** The built-in G-sensor detects sudden impacts and automatically locks the current video file to prevent it from being overwritten. Loop recording ensures continuous recording by overwriting the oldest files when the memory card is full.
- **Voice Control:** Allows hands-free operation for various functions, enhancing driving safety.

- **Adjustable Backup Camera:** The rear camera supports horizontal and vertical image reversal, and the backup guidelines can be adjusted to suit your vehicle, displaying the adjusted angle on subsequent uses.
- **Type-C Power Cable:** Upgraded to Type-C for improved charging speed, stability, durability, and heat resistance compared to traditional Type-B cables.
- **TS Format Recording:** Utilizes TS (MPEG2-TS) format for faster transfer speeds and enhanced data integrity, preventing data loss during recording errors.
- **128GB MicroSD Card Included:** Comes with a Class 10 high-durability 128GB microSD card, ready for immediate use.



Image: The VANBAR DC209Pro-02 dash cam main unit, separate front camera, rear camera, 128GB microSD card, car charger, and power cables.

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 UHD



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



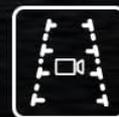
夜間暗視機能



衝突録画



ループ録画



バックガイドライン

Image: Visual representation of the dash cam's key features including 4K UHD, IPS display, BSD, LCA, anti-interference, voice control, 24-hour parking monitoring, GPS, night vision, impact recording, loop recording, and backup guidelines.

3. SETUP GUIDE

3.1 Pre-Installation Check

Before installing the device in your vehicle, connect the power cable and perform a functional test. Use the included cigarette lighter cable for this test. This ensures the device is working correctly before permanent installation.

3.2 MicroSD Card Insertion

Insert the included 128GB Class 10 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 (Mirror Dash Cam)

1. Attach the main mirror unit over your vehicle's existing rearview mirror using the provided rubber straps. Ensure it is securely fastened and does not obstruct your view.
2. Adjust the angle of the mirror unit for optimal viewing.

3.4 Front Camera Installation (Split Type)

1. Mount the separate front camera on your windshield, ideally behind the original rearview mirror, to ensure a clear and unobstructed view of the road ahead.
2. Connect the front camera cable to the main mirror unit. Route the cable neatly along the windshield trim to avoid interference with driving.



Image: Illustration of the split-type front camera installation, showing how it provides a wider and clearer field of view compared to integrated designs.

3.5 Rear Camera Installation

The included rear camera cable is 8 meters long. If a longer cable is required, please contact customer support. For some vehicle types, a dedicated bracket may be necessary for installation; consult our service center if needed.

1. Mount the waterproof rear camera at the rear of your vehicle, typically above the license plate or on the rear window.
2. Route the rear camera cable from the back of the vehicle to the main mirror unit, ensuring it is secured and

protected from external elements.

3. Connect the rear camera cable to the main unit.

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: Depicts the rear camera installation and the options for horizontal and vertical image reversal to adapt to different mounting positions.

3.6 Power Connection

- **Standard Power (Cigarette Lighter):** Connect the Type-C power cable to the main unit and the cigarette lighter adapter to your vehicle's 12V power outlet. The device will power on/off with your vehicle's ignition.
- **24-Hour Parking Monitoring (Hardwire Kit):** Use the included hardwire cable to connect the dash cam directly to your vehicle's fuse box. This enables continuous power for 24-hour parking monitoring. Refer to the hardwire kit instructions for detailed installation.

UIデザイン 超高級なIPSフルタッチ2.5Dスクリーン

VANBAR DC209Pro 機能の使用と設定をプレビュー画面、運転補助、録画再生、運転設定、システム設定という 5 つの部分に細分化し、同時に目を引くアイコンを設計することで、高級感满满、操作も簡単です。



BSD/LCA運転補助の修正と設定はドライブレコーダー本体で簡単に操作できます。



重要な再生ファイルをすばやく見つけて、万が一時お客様の権利と利益を保護できるように、再生ファイルをフロントカメラ、リアカメラ、緊急録画、写真という 4 つの部分に細分化しています。



Image: Shows the Type-C power cable connection via cigarette lighter adapter and the hardwire cable for enabling 24-hour parking monitoring.

4. OPERATING INSTRUCTIONS

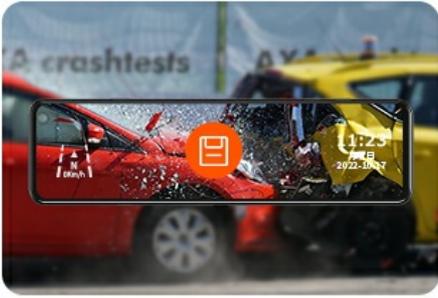
4.1 Power On/Off

- **Automatic:** The device will automatically power on and begin recording when the vehicle's ignition is turned on (if connected via cigarette lighter or hardwire kit). It will power off automatically when the ignition is turned off.
- **Manual:** Press and hold the power button on the side of the unit to manually turn it on or off.

4.2 Touch Screen Interface

The DC209Pro-02 features an 11-inch IPS full touch panel for easy navigation. The user interface is designed for intuitive operation, with clear icons for various functions.

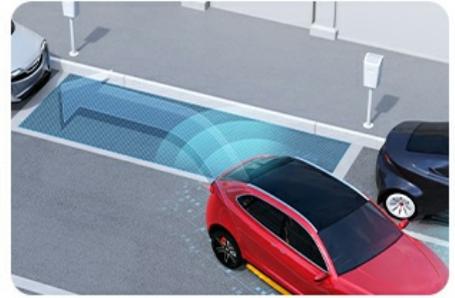
肝心な6つの機能で安全なドライブをサポート



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: Shows the intuitive UI design with various icons for functions like recording, playback, settings, and BSD/LCA adjustments.

4.3 Recording Modes

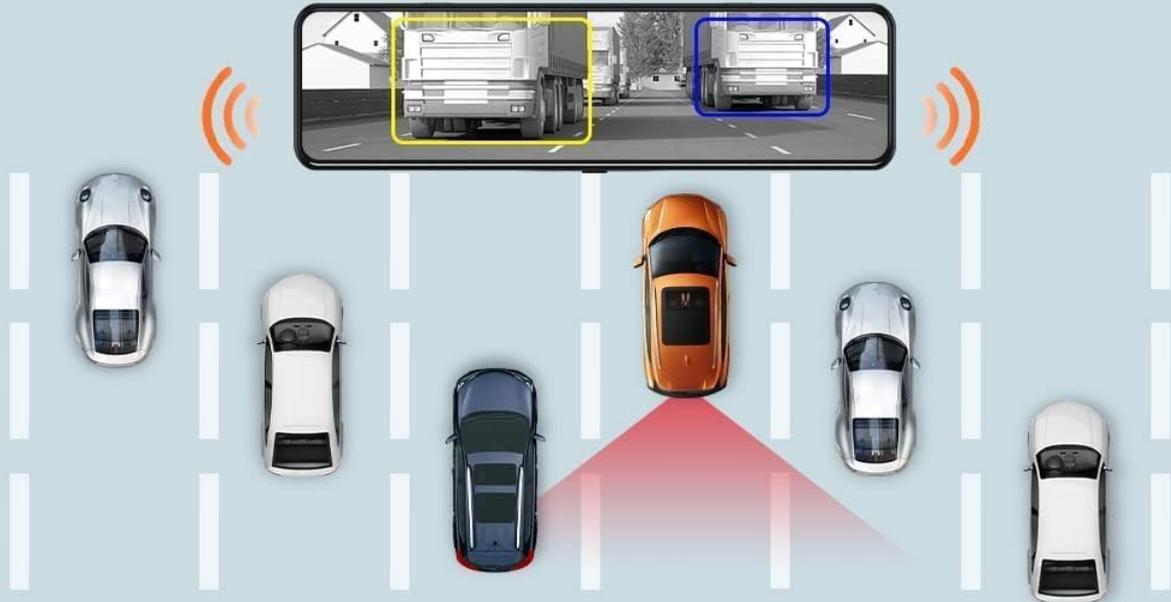
- **Continuous Loop Recording:** The device records continuously in short segments (e.g., 1, 3, or 5 minutes). When the microSD card is full, the oldest unlocked files are automatically overwritten.
- **G-Sensor (Impact Recording):** In the event of a sudden impact or collision, the built-in G-sensor automatically detects it and locks the current video file, preventing it from being overwritten by loop recording.
- **Parking Monitoring:** When the vehicle is parked and the hardwire kit is installed, the dash cam will automatically start recording if it detects an impact, providing surveillance for your parked vehicle.

4.4 Driver Assistance Systems (BSD & LCA)

- **Blind Spot Detection (BSD):** Detects obstacles (vehicles or pedestrians) in your blind spots. It displays a frame (blue for safe distance, yellow for dangerous distance) on the screen and provides an audible warning to alert the driver.
- **Lane Change Assist (LCA):** Detects vehicles rapidly approaching from behind in adjacent lanes. It displays an orange indicator on the left or right side of the monitor (depending on the direction of the approaching vehicle) and provides an audible warning.
- **Adjustment:** Both BSD and LCA sensitivity, speed, and detection range can be adjusted through the device settings to match your driving habits.

業界最新技術、BSD死角監視システム

死角検知機能（BSD：Blind Spot Detection） ドアミラーでは見えにくい、自車後方、または斜め後方の障害物（車と歩行者）を検出した場合、距離により、枠（安全距離は青い枠、危険距離は黄色い枠）を付けながら、警報音でドライバーに注意を促します。



業界最新技術、LCA車線変更支援初登場！

車線変更支援（LCA：Lane Change Assist） 隣車線を後方から急接近してくる車両を検出した場合、モニターの左右（接近してくれる車両の方向により）にオレンジ色付けながら、警報音でドライバーに注意を促します。

※BSD、LCAともに、運転習慣により、時速、検出範囲を調節することができます。

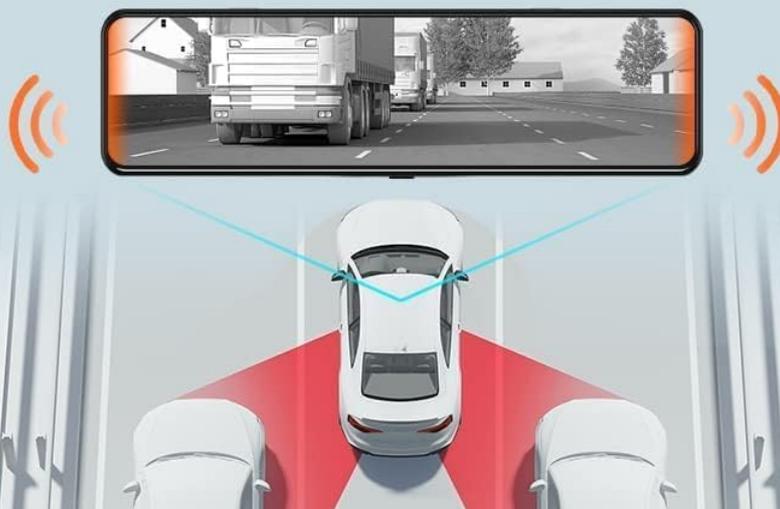


Image: Illustrates how the BSD system detects vehicles in blind spots with visual frames and how the LCA system alerts for rapidly approaching vehicles in adjacent lanes.

4.5 Voice Control

The device supports voice commands for functions such as starting/stopping recording, taking photos, and switching display modes. Refer to the on-screen prompts or the full instruction manual for a list of available commands.

4.6 GPS Data Review

Recorded GPS data (speed, direction, location) can be reviewed using dedicated player software on a computer. This allows you to visualize your driving route alongside the video footage.



Image: Demonstrates the GPS tracking feature, showing how recorded video can be viewed with an overlay of the vehicle's route on a map.

4.7 Backup Camera Functionality

When shifting into reverse, the rear camera display automatically appears on the screen, and the camera angle adjusts downwards. The length and angle of the backup guidelines can be freely adjusted to match your vehicle. These adjustments are saved for future use.

お客様のすべての希望を実現する！ 全方位調整可能なバックガイドラインへ進化

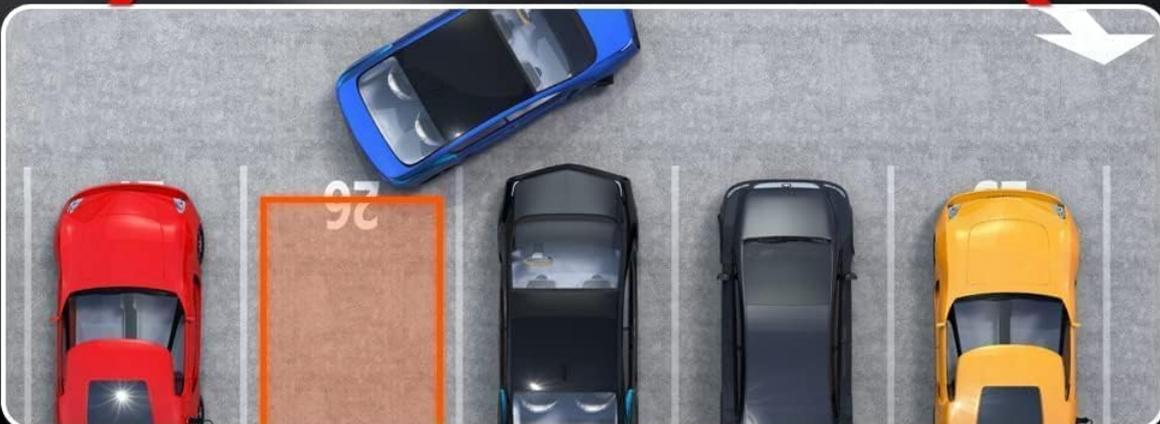
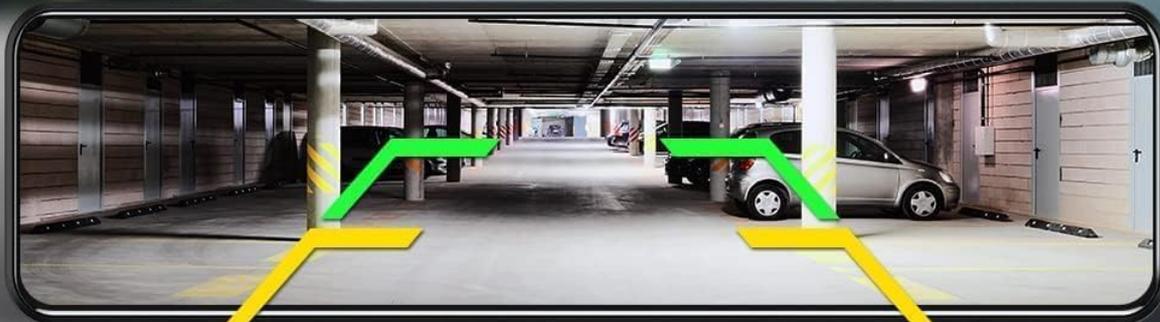


Image: Illustrates the adjustable backup guidelines, showing how they can be moved up, down, left, and right to assist with parking

5. MAINTENANCE

5.1 MicroSD Card Management

- Regularly format the microSD card (e.g., once a month) to maintain optimal recording performance and prevent data corruption. This can be done through the device settings.
- While the included card is high-durability, frequent overwriting can eventually degrade any memory card. Consider replacing the microSD card periodically (e.g., annually) for best reliability.

5.2 Cleaning

- Use a soft, dry cloth to clean the main unit's screen and camera lenses. Avoid abrasive materials or chemical cleaners that could damage the surfaces.
- Ensure the rear camera lens is clean for clear rear view footage, especially after driving in adverse weather conditions.

5.3 Temperature Considerations

The device is designed to withstand various temperatures. However, prolonged exposure to extreme heat (e.g., direct sunlight in a parked car during summer) or extreme cold can affect performance and lifespan. If possible, park in shaded areas or remove the device during extreme conditions.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Loose power connection, faulty power adapter, vehicle's power outlet issue.	Check all power connections. Ensure the cigarette lighter adapter is fully inserted or the hardwire kit is correctly installed. Test the power outlet with another device.
Recording stops or files are corrupted.	MicroSD card is full, faulty microSD card, incompatible microSD card, card not formatted.	Format the microSD card regularly. Ensure you are using the included Class 10 high-durability card or a similar high-quality card. Replace the card if issues persist.
Image is blurry or unclear (especially at night).	Dirty camera lens, protective film still on lens, extreme lighting conditions.	Clean the camera lenses. Ensure any protective films are removed. While the device has night vision, extreme darkness or bright headlights can still affect clarity.
Text (e.g., license plates) appears reversed.	Incorrect image flip setting for the rear camera.	Access the settings menu and adjust the horizontal/vertical flip options for the rear camera until the text appears correctly.
BSD/LCA alerts are too frequent or not appearing.	Sensitivity settings are too high/low, sensor obstruction.	Adjust the sensitivity and detection range settings for BSD/LCA in the menu. Ensure the rear camera lens is clean and unobstructed.
GPS data is not recorded or inaccurate.	GPS module not connected, poor satellite signal.	Ensure the GPS module is properly connected and placed where it has a clear view of the sky.

7. SPECIFICATIONS

Feature	Detail
Brand	VANBAR
Model Name	VANBAR Drive Recorder Mirror Type
Product Model Number	DC209PRO
Size	DC209Pro-02
Product Dimensions	27.3 x 4.5 x 7.1 cm; 1.18 kg
Front Camera Resolution	4K (3840*2160P)
Rear Camera Resolution	2.5K (2560*1440P)
Sensor	IMX415 CMOS Sensor
Display	11-inch IPS Full Touch Panel
Special Features	G-Sensor, Parking Monitor, Voice Alert, Voice Control, Reverse Assist, BSD, LCA, GPS, WDR, Night Vision, Loop Recording
Included Components	Charging cable, 128GB MicroSD card, Hardwire cable, Anti-reflection film, User Manual
Battery Included	No

8. WARRANTY AND SUPPORT

VANBAR is committed to providing high-quality products and excellent customer service. If you encounter any issues or have questions regarding your DC209Pro-02 dash cam, please do not hesitate to contact our support team.

- **Extended Cord Offer:** Participate in our activities to receive an extended cord free of charge (no shipping or handling fees). Please contact us if needed.
- **Contact Support:** For any inquiries, technical assistance, or warranty claims, please reach out to VANBAR customer support via phone, email, or LINE.

お困りごとを電話、メール、LTNEでサポート!



4K ドライブレコーダー本体



車内/車外対応防水バックカメラ



4k フロントカメラ



ふきん



内張りはがし



固定用ベルト



GPSモジュール



シガーソケット



警告ラベル



64GB
microSDカード



反射防止
フィルム



24時間駐車
監視用ケーブル



説明書

Image: Illustration indicating customer support availability via phone, email, and LINE.