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> [VANBAR DC209Pro Separated Mirror Dash Cam User Manual](#)

VANBAR SJ209-202201020

VANBAR DC209Pro Separated Mirror Dash Cam User Manual

Model: SJ209-202201020

Brand: VANBAR

1. INTRODUCTION

Thank you for choosing the VANBAR DC209Pro Separated Mirror Dash Cam. This advanced driving recorder is designed to provide comprehensive road surveillance and enhanced driving safety with its high-resolution cameras and intelligent assistance features. This manual will guide you through the installation, operation, and maintenance of your new device, ensuring optimal performance and a safe driving experience.

2. PRODUCT OVERVIEW

The VANBAR DC209Pro features a separated design for flexible installation, offering a 4K front camera and a 2.5K rear camera for crystal-clear recording. It comes equipped with an IMX415 sensor for superior image quality, especially in low-light conditions, and includes a 128GB Micro SD card for ample storage.

2.1 Key Features

- **Ultra HD Recording:** Front 4K (3840*2160P) and Rear 2.5K (2560*1440P) simultaneous recording.
- **Advanced Driver Assistance:** Blind Spot Detection (BSD) and Lane Change Assist (LCA) systems.
- **Superior Night Vision:** Equipped with IMX415 sensor and HDR technology for clear recordings in low light.
- **Voice Control:** Hands-free operation for various functions.
- **GPS Functionality:** Records driving speed and trajectory, viewable on PC.
- **24-Hour Parking Monitoring:** G-sensor activated recording for impact detection while parked.
- **Loop Recording & G-Sensor:** Ensures continuous recording and protects critical footage.
- **Backup Assist:** Automatic display of rear camera view with adjustable guidelines when reversing.
- **Type-C Power Cable:** Enhanced charging speed, stability, and durability.
- **TS Format Recording:** Improved data integrity and long-term storage reliability.

2.2 Package Contents

- VANBAR DC209Pro Main Unit (Mirror Dash Cam)
- Front Camera (separated)
- Rear Camera (waterproof)
- GPS Module
- Cigarette Lighter Power Cable
- Hardwire Kit (for 24-hour parking monitoring)
- 128GB Micro SD Card
- Mounting Straps (2 sizes)
- Anti-reflection Film
- Cleaning Cloth
- User Manual (this document)



Image: VANBAR DC209Pro main unit and all 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: Visual representation of the dash cam's core features including 4K, IPS, BSD, LCA, Voice Control, GPS, Night Vision, G-sensor, Loop Recording, and Backup Guide.

3. SETUP AND INSTALLATION

Before permanent installation, it is recommended to connect the device to power and test its basic functions. Use the included cigarette lighter power cable for initial testing.

3.1 Mounting the Main Unit

1. Attach the main unit (mirror dash cam) to 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 main unit to ensure the screen provides a clear view of the road behind.

3.2 Installing the Front Camera

The front camera is separated from the main unit for optimal placement.

1. Choose a suitable location on your windshield, ideally near the top center, where it has an unobstructed view of the road ahead and does not interfere with the driver's line of sight or airbags.
2. Clean the chosen area thoroughly. Peel off the adhesive backing and firmly press the front camera onto the windshield.
3. Route the front camera cable neatly along the windshield trim and connect it to the main unit.

フロントカメラを本体から完全に独立型



日本道路対応！更に広くクリアなフロントカメラ視野が確保できる



Image: Demonstrates the flexible installation options for the separated front camera, allowing for a wider and clearer front view without obstruction.

3.3 Installing the Rear Camera

The rear camera is waterproof and can be installed inside or outside the vehicle.

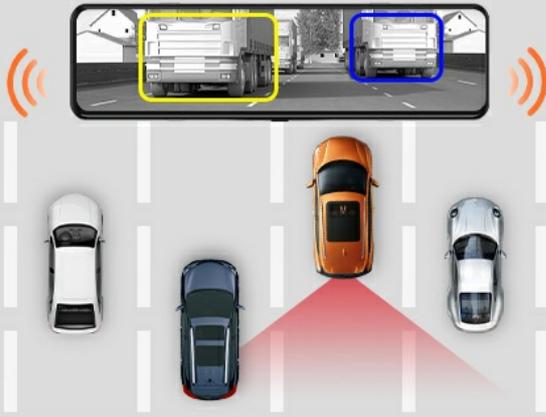
1. For external installation, mount the rear camera above your license plate or near the trunk handle. For internal installation, mount it on the rear windshield. Ensure a clear view.
2. Route the rear camera cable to the main unit. The cable length is approximately 8 meters. If a longer cable is needed, please contact customer support.
3. Connect the red wire of the rear camera cable to your vehicle's reverse light positive wire for automatic backup display.

3.4 Connecting Power and GPS

1. Insert the included 128GB Micro SD card into the dash cam's SD card slot.
2. Connect the Type-C power cable to the main unit.
3. For standard operation, plug the cigarette lighter power adapter into your vehicle's 12V power outlet.
4. For 24-hour parking monitoring, use the included hardwire kit. Connect the hardwire kit to your vehicle's fuse box according to the instructions provided with the kit.
5. Connect the GPS module to the designated port on the main unit. Place the GPS module on the dashboard with a clear view of the sky for optimal signal reception.

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。



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。

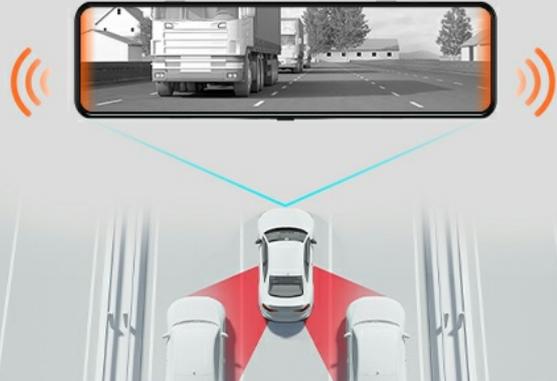


Image: Illustrates the two power connection methods: via cigarette lighter socket for basic operation, and via hardwire kit for continuous 24-hour parking monitoring.

4. OPERATING INSTRUCTIONS

The VANBAR DC209Pro is designed for intuitive operation via its IPS full-touch 2.5D screen and voice control.

4.1 Basic Operation

- **Power On/Off:** The device will automatically power on and start recording when the vehicle engine starts. It will power off automatically when the engine is turned off. You can also manually power on/off by pressing and holding the power button.
- **Recording:** Recording starts automatically upon power-on. The screen will display the live view from the front and rear cameras.
- **Screen On/Off:** Tap the screen to turn it on/off. Recording continues even when the screen is off.

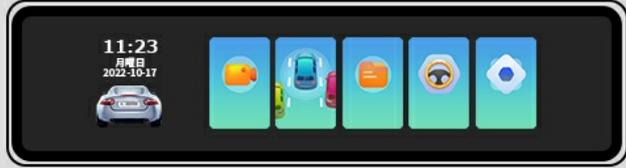
4.2 Voice Control

The dash cam supports Japanese voice commands for hands-free operation. Simply speak the command clearly.

- "Screen On/Off"
- "Front/Rear Camera" (switches display between front, rear, or split view)
- "Video Start"
- "Voice On/Off"
- "Take Photo"
- "Video Lock" (locks current recording to prevent overwriting)

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、高級感満々、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: Diagram illustrating the various voice commands available for hands-free control of the dash cam.

4.3 Driver Assistance Systems (BSD & LCA)

The DC209Pro integrates Blind Spot Detection (BSD) and Lane Change Assist (LCA) to enhance driving safety.

- **BSD (Blind Spot Detection):** Detects obstacles (vehicles, pedestrians) in your blind spots. The system will display a frame (blue for safe distance, yellow for dangerous distance) on the screen and emit an audible warning to alert the driver.
- **LCA (Lane Change Assist):** Detects vehicles rapidly approaching from behind in adjacent lanes. The monitor will display an orange indicator on the left or right side (depending on the direction of the approaching vehicle) and provide an audible warning.

Note: Both BSD and LCA functions can be adjusted for speed and detection range based on driving habits.

BSD,LCA運転補助搭載だけでなく、370万画素[2560*1440P]リアカメラへ再進化!

夜間の撮影が半端なく綺麗で映ります。夜間のみではなく、雨の日逆光、白飛びや黒つぶれなどを修正し、ナンバープレートも捕まえます。



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。



付属の専用 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。

Image: Detailed explanation of how the Blind Spot Detection (BSD) and Lane Change Assist (LCA) systems work, showing visual alerts on the screen.

4.4 Parking Monitoring

When connected via the hardwire kit, the dash cam provides 24-hour parking surveillance. The built-in G-sensor detects impacts and automatically starts recording, saving the footage to a dedicated folder to prevent overwriting. This feature is crucial for recording hit-and-runs or vandalism while your vehicle is parked.

4.5 GPS Functionality

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

4.6 Backup Assist

When you shift your vehicle into reverse, the dash cam automatically displays the rear camera view on the screen. The backup guidelines can be adjusted in length and angle to suit your vehicle and preferences. The adjusted settings will be 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

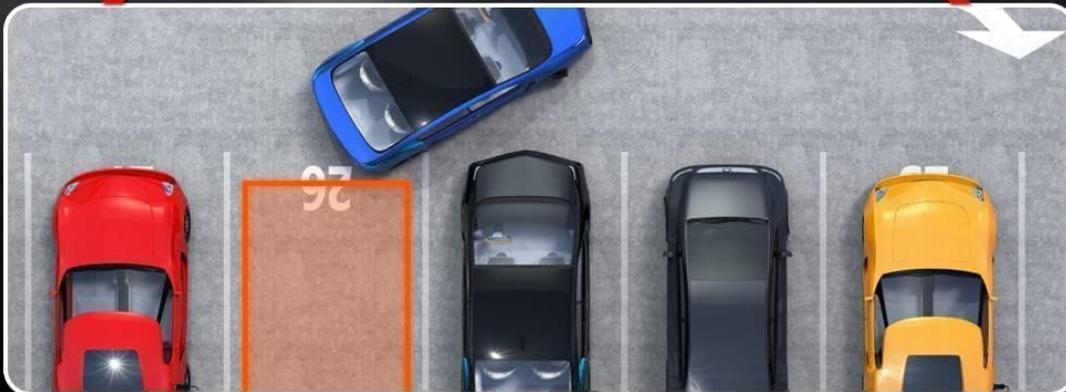


Image: Demonstrates the adjustable backup guidelines on the rear camera display, allowing users to customize the length and angle for precise parking assistance.

4.7 UI Navigation and File Management

The intuitive UI allows easy access to various functions and settings. Recorded files are categorized into Front Camera, Rear Camera, Emergency Recording, and Photos for quick retrieval. The TS video format ensures data integrity and prevents loss even if power is interrupted.

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: Shows the user interface design with various icons for functions and the file management screen, allowing easy access to recorded videos and photos.

5. MAINTENANCE

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

5.1 Cleaning

- Regularly clean the camera lenses with a soft, lint-free cloth to ensure clear recordings. Avoid abrasive materials or chemical cleaners.
- Wipe the screen with a microfiber cloth to remove fingerprints and dust.

5.2 SD Card Management

- It is recommended to format the Micro SD card once a month to prevent data corruption and ensure smooth recording. This can be done through the device settings.
- Use only high-endurance Micro SD cards (Class 10 or higher, U3 recommended) designed for dash cam use to withstand frequent read/write cycles.
- If the card becomes full, the loop recording function will automatically overwrite the oldest non-locked files.

6. TROUBLESHOOTING

If you encounter any issues with your VANBAR DC209Pro, 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 cable, vehicle power issue.	Check all power connections. Ensure the cigarette lighter socket or hardwire kit is receiving power. Try a different power source if possible.
Recording stops or freezes.	SD card issue (full, corrupted, low quality), firmware issue.	Format the SD card via the device settings. Use a high-endurance Class 10 U3 Micro SD card. Update firmware if available.
Poor image quality (blurry, dark).	Dirty lens, protective film still on, low light conditions, incorrect settings.	Clean the camera lenses. Remove any protective films. Adjust exposure/WDR settings in the menu. Ensure sufficient lighting.
GPS signal not found or inaccurate.	GPS module not connected, obstructed view of sky, faulty module.	Ensure GPS module is securely connected and placed on the dashboard with a clear view of the sky. Test in an open area. If issue persists, contact support.
Voice control not responding.	Microphone off, noisy environment, unclear commands.	Ensure voice control is enabled in settings. Speak clearly and directly to the device. Reduce background noise.
Rear camera image is flipped/mirrored incorrectly.	Incorrect setting for rear camera orientation.	Adjust the image flip/mirror setting for the rear camera in the device menu.

If the problem persists after trying these solutions, please contact VANBAR customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Screen Size	11 inches (28 cm)
Display Type	LCD
Front Camera Resolution	4K (3840x2160p)
Rear Camera Resolution	2.5K (2560x1440p)
Sensor	IMX415 CMOS Sensor
Field of View	150 degrees
Storage	Supports Micro SD card (128GB included)
Power Connection	Type-C (Cigarette Lighter / Hardwire Kit)
Mounting Type	Adhesive / Strap-on
Product Dimensions	26 x 7.6 x 2.3 cm

Feature	Specification
Product Weight	1.07 kg
Model Number	SJ209-202201020

8. WARRANTY AND SUPPORT

VANBAR is committed to providing high-quality products and excellent customer service.

8.1 Extended Warranty

While most dash cams offer a 1-year warranty, VANBAR provides an extended 3-year warranty for customers who purchase directly from Amazon. To register for the 3-year warranty extension, please send your order number and a request for "3-year warranty extension registration" to our customer service center. This offer is valid only for products purchased on Amazon and is not applicable to resales.

8.2 Customer Support

We continuously strive to improve our products based on customer feedback. If you have any questions, need assistance, or require firmware updates, please do not hesitate to contact us. Our customer support team is available via phone, email, and LINE.

LINE Official Account: @645cthlb

We are dedicated to resolving any issues you may encounter with 100% enthusiasm, before, during, and after your purchase.