

VIOFO A329S

VIOFO A329S 3-Channel Dash Cam User Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VIOFO A329S 3-Channel Dash Cam. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- A329S 3CH Dash Cam
- CPL-600 Filter (Included in this bundle)
- HK4/HK6 Hardwire Kit (Note: This kit is required for advanced parking modes and may be included in specific bundles or sold separately.)
- Type-C SSD Cable (Note: This cable is for connecting an external SSD, which is sold separately. The cable itself may be included in specific bundles or sold separately.)
- Rear Camera
- Fisheye Cabin Camera
- Car Charger
- Rear Camera Cable (6m)
- Fisheye Cabin Camera Cable (1m)
- Spare Mount Sticky Pads (Set) x 1
- Windshield Static Stickers x 3
- Trim Removal Tool
- Warning Sticker
- After-Sales Service Card
- Quick Start Guide
- User Manual

Dual Type-C Car Charger

All in One, One for Convenience

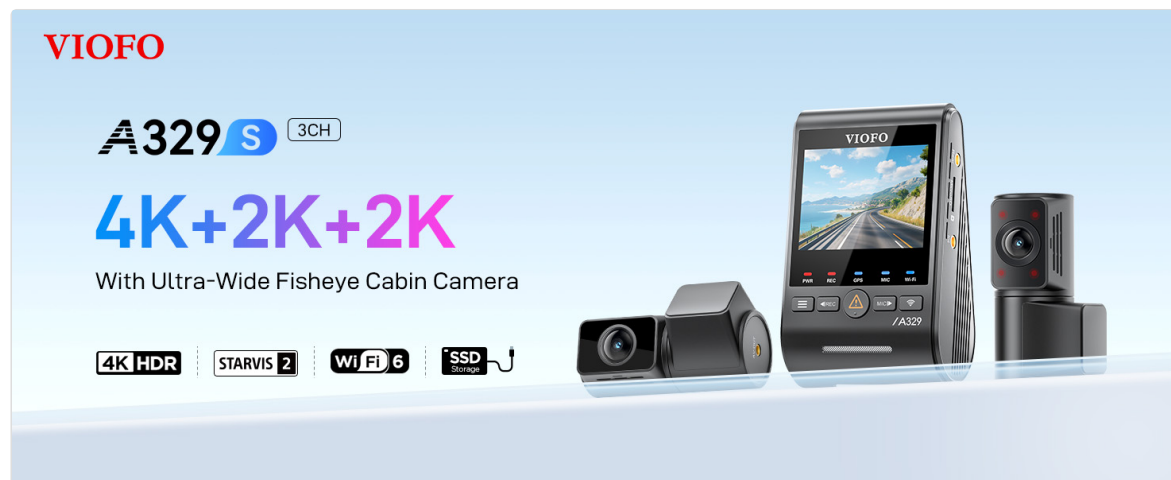
The 45W car charger, featuring supercharging capability, comes with two Type-C ports for dash cams and other mobile devices, offering great practicality. It is also designed with an indicator light for enhanced convenience when used in the dark.



An image displaying all components included in the VIOFO A329S 3-Channel Dash Cam package, such as the main dash cam unit, front, cabin, and rear cameras, cables, CPL filter, and mounting accessories.

PRODUCT OVERVIEW

The VIOFO A329S is a high-performance 3-channel dash camera system designed to record video from the front, interior cabin, and rear of your vehicle. It features advanced STARVIS 2 sensors for superior image quality, Wi-Fi 6 connectivity for fast file transfers, and various parking modes for continuous surveillance.

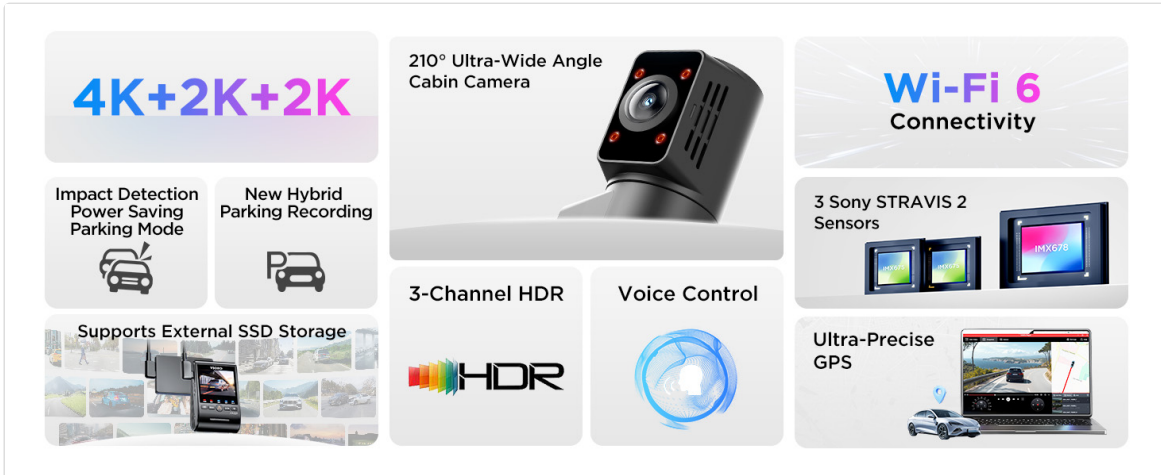


An overview image of the VIOFO A329S dash cam system, showing the front camera unit, cabin camera, and rear camera, highlighting key features like 4K+2K+2K recording, STARVIS 2, Wi-Fi 6, and SSD storage support.

Key Features

- **4K Front + 2K Interior Fisheye + 2K Rear Recording:** Captures comprehensive video coverage with high resolution.
- **3 Channel with STARVIS 2 Sensors:** Utilizes advanced Sony STARVIS 2 sensors (IMX678 for front, IMX675 for rear and cabin) for enhanced low-light performance and dynamic range.
- **Impact Detection Power Saving Parking Mode:** Minimizes battery drain while providing instant recording upon impact detection. Requires optional hardwire kit.
- **Next-Gen Wi-Fi 6 Technology:** Offers faster data transfer speeds (up to 30MB/s) for quick video downloads and app control.
- **Support Up to 4TB SSD or 512GB microSD:** Flexible storage options for extended recording times.
- **Accurate GPS Logger:** Records location, speed, and time data.

- **Smart Voice Control:** Allows hands-free operation for common functions.
- **Circular Polarizing Lens (CPL):** Reduces reflections on the windshield for clearer video.
- **Dual Ultra-Slim Coaxial Cables:** Facilitates easier and cleaner installation with reduced interference.
- **Loop Recording & Auto Emergency Lock:** Ensures continuous recording and protects critical footage from overwriting.



An image summarizing the key features of the VIOFO A329S dash cam, including 4K+2K+2K recording, 210-degree ultra-wide cabin camera, Wi-Fi 6, impact detection parking mode, hybrid parking recording, 3 Sony STARVIS 2 sensors, 3-channel HDR, voice control, external SSD storage, and ultra-precise GPS.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance of your VIOFO A329S dash cam. Follow these steps carefully.

1. Prepare the Windshield

Clean the area on your windshield where the dash cam will be mounted. Apply the provided static stickers to the windshield first, then attach the dash cam mount to the static sticker. This allows for easier removal without leaving residue.

2. Install the Front Camera

1. Attach the front camera to its mount.
2. Peel off the protective film from the adhesive pad on the mount.
3. Firmly press the mount onto the static sticker on your windshield, ensuring a clear view of the road.
4. Adjust the lens angle to capture the road ahead, with the horizon line in the middle of the frame.



A detailed view of the VIOFO A329S front dash camera unit, showing its compact design and lens, ready for windshield mounting.

3. Install the Cabin Camera

1. Connect the cabin camera to the main front unit using the provided 1m coaxial cable.
2. Mount the cabin camera on the windshield or dashboard, ensuring it has a clear view of the vehicle's interior.
3. Route the cable neatly along the headliner and A-pillar using the trim removal tool.

210° Ultra-Wide Cabin Camera

Capture Both Inside and Out with Enhanced Clarity



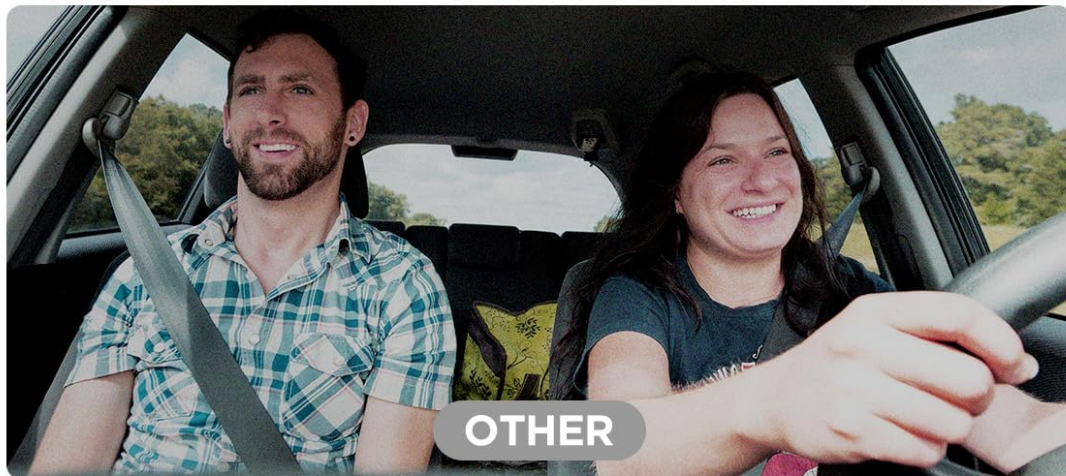
210° Ultra-Wide Angle

HDR

HDR Enhanced Vision



2K STARVIS 2



An image showing the VIOFO A329S cabin camera capturing the interior of a vehicle, demonstrating its 210-degree ultra-wide angle view.

4. Install the Rear Camera

1. Connect the rear camera to the main front unit using the provided 6m coaxial cable.
2. Mount the rear camera on the rear windshield, ensuring a clear view of the road behind.
3. Route the cable neatly along the headliner, C-pillar, and trim.

3-Channel Recording



A diagram illustrating the optimal placement of the front, cabin, and rear cameras for the VIOFO A329S 3-channel dash cam system, showing their respective fields of view.

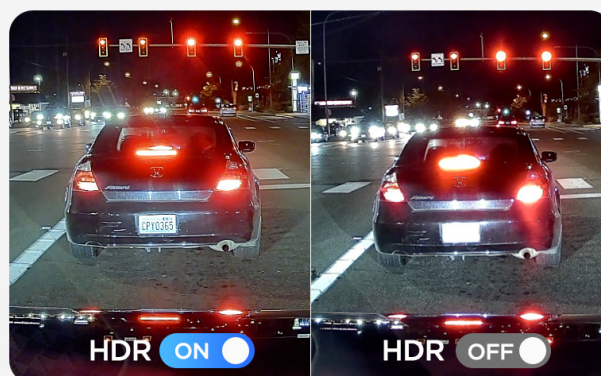
5. Power Connection

1. Plug the car charger into your vehicle's 12V/24V power outlet.
2. Connect the Type-C end of the power cable to the main dash cam unit.
3. Route the power cable neatly to avoid obstructing your view or interfering with driving.
4. **Important:** Do not use a mobile phone charger or cable to power the dash cam, as this may cause damage or malfunction.

3-Channel HDR

Capturing Clear License Plates

The combination of Sony STARVIS 2 technology and HDR feature balances extremely bright and dark areas, revealing details and capturing accurate license plates even in fast move from all-channel recordings.



A diagram showing the correct cable connections for the VIOFO A329S dash cam system, including power input from the car charger, and connections for the front, cabin, and rear cameras.

6. Insert Memory Card

Ensure the dash cam is powered off. Insert a high-endurance microSD card (up to 512GB) into the designated slot. Alternatively, an external SSD (up to 4TB) can be connected via the Type-C SSD cable. **Note:** A microSD card and external SSD storage are not included and must be purchased separately. For optimal performance, VIOFO industrial high endurance microSD cards are recommended.

Flexible Multi-View Video Export

No Editing Needed, Instant Sharing

Export your footage with any combination of camera views. Whether you need a single perspective or a multi-angle overview, the dash cam gives you full control over how your videos are presented.



3 Channels:
(Front & Interior
& Rear)

An image showing the microSD card slot on the side of the VIOFO A329S dash cam, with a VIOFO 512GB microSD card being inserted.

Supports High-Capacity SSD Storage

No more worries about running out of storage,
capture up to 20,000 videos.



Assuming an average of 3 hours of recording per day, the storage time of A329S 3CH (4K 30fps + 2K 30fps + 2K 30fps) at normal bitrate is as follows:

512GB	1TB	2TB	4TB
5 Days	9 Days	18 Days	35 Days

*External SSD and microSD Card not included. We recommend using VIOFO Type-C SSD cable (sold separately).

An image illustrating the VIOFO A329S dash cam connected to an external SSD via a Type-C cable, demonstrating its support for high-capacity SSD storage up to 4TB.

7. CPL Filter Installation

The included CPL (Circular Polarizing Lens) filter can be attached to the front camera lens to reduce reflections and glare from the windshield, improving video clarity.



A comparison image showing video footage with and without a CPL filter, demonstrating how the Circular Polarizing Lens effectively reduces reflections on the windshield for clearer recordings. The image also shows how the CPL filter attaches to the front camera.

OPERATION

1. Basic Recording

Once powered on, the dash cam will automatically begin recording. The recording indicator light will flash. Videos are saved in segments to the memory card.

- **Loop Recording:** The dash cam records continuously, overwriting the oldest files when the memory card is full.
- **G-Sensor (Emergency Lock):** In the event of a sudden impact or collision, the built-in G-sensor will automatically lock the current video file, preventing it from being overwritten.

Up to 4TB SSD

Capture up to 20,000 Videos

A329S features external SSD storage, significantly extending your camera's recording days, **allowing up to over 3 weeks of footage.**

Based on our testing, here are the recommended SSD models:



Western Digital 1TB
My Passport SSD



SanDisk 2TB Extreme
Portable SSD



SanDisk 1TB Extreme
Portable SSD

512GB	1TB	2TB	4TB
5 Days	9 Days	18 Days	35 Days

*External SSD is not included.

An image depicting the VIOFO A329S dash cam screen showing an emergency lock icon, illustrating the loop recording and auto emergency lock features that protect critical video footage.

2. Parking Mode

The A329S offers various parking modes to monitor your vehicle when parked. An optional VIOFO HK4 or HK6 hardwire kit is required to enable these features and prevent battery drain. Please check your package contents or purchase separately if not included.

- **Impact Detection Parking Mode:** The camera remains in a low-power state and starts recording instantly when an impact is detected.
- **Hybrid Parking Recording:** Combines time-lapse recording (1fps) with impact detection. If an impact occurs during time-lapse, it switches to event recording.
- **Normal Parking Mode:** Includes Super Night Vision (SNV), Low Bitrate Recording, and Auto Event Detection for continuous surveillance.

Power Saving Parking Mode

Impact Detection

This parking mode features very low power consumption, preventing battery drain. When the vehicle is turned off, the camera switches to standby. Once collision is detected, it starts recording instantly.



Power Saving
Consumption



Longer-lasting
Protection



Quick Start
Recording



*To use parking mode, you'll need an HK4/HK6 hardwire kit (sold separately).

An image illustrating the VIOFO A329S dash cam's power-saving parking mode, highlighting features like low power consumption, longer-lasting protection, and quick start recording upon impact detection. The image shows the dash cam mounted in a car, monitoring a parking lot.

2K Rear Recording

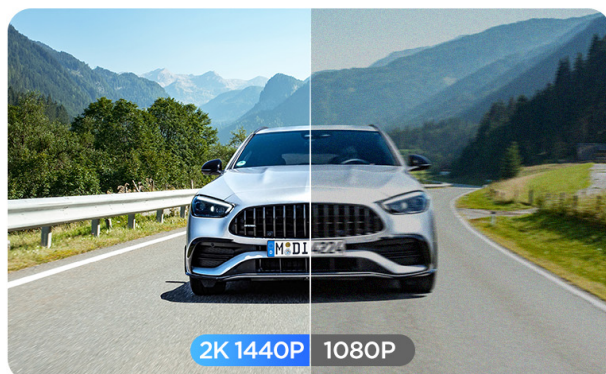
Never missing the back

The rear camera records in enhanced 2K resolution using a STARVIS 2 5MP image sensor, significantly improving rear recording quality.

STARVIS 2
Image Sensor

HDR
HDR

F 1.8






An image explaining the Hybrid Parking Recording feature of the VIOFO A329S, showing a comparison between normal parking recording and impact detection parking recording.

STARVIS 2 Sensors for All 3 Channels

Less Noise, Less Motion Blur

A329S using STARVIS 2 sensors IMX678 & IMX675 for all 3 cameras, offers a wider dynamic range and higher light sensitivity, bringing **less noise and motion blur** during day & night recording.

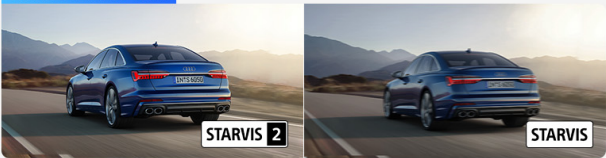


STARVIS 2


STARVIS 2

STARVIS 2

Less motion blur



Less noise



An image detailing the Normal Parking Mode options for the VIOFO A329S, including Super Night Vision (SNV), Low Bitrate Recording, and Auto Event Detection, with visual examples.

3. Wi-Fi Connectivity & App Control

The A329S features Wi-Fi 6 for fast connection to the VIOFO smartphone app. This allows you to:

- View live footage.
- Download recorded videos quickly (up to 30MB/s for a 1-minute 4K video in under 10 seconds).
- Change settings.
- Update firmware.

Download the VIOFO app from your device's app store.

Wi-Fi 6 Connectivity

A one-minute 4K video can be downloaded in under 10 seconds.
It offers significant convenience in case of emergency.



A329S Dash Cam

30M/S



Other Dash Cam

7M/S



An image demonstrating the Wi-Fi 6 Dual Band connectivity of the VIOFO A329S dash cam, showing a smartphone downloading video files from the dash cam at high speeds.

4. GPS Functionality

The built-in GPS module records your vehicle's location, speed, and time data. This information can be viewed when playing back videos using the VIOFO app or PC player.

Accurate GPS Logger for Fast Positioning



Smart Voice Control & Notification



An image illustrating the accurate GPS tracking feature of the VIOFO A329S, showing a car driving on a scenic road with GPS coordinates, speed, and time overlaid, and a laptop displaying the video playback with map integration.

5. Voice Control

Control your dash cam hands-free with simple voice commands. This feature allows you to:

- "Take photo"
- "Turn on Wi-Fi"
- "Lock the video"

The camera also provides voice notifications for settings changes or memory card errors.

Supports up to 512GB memory card

A329S dash cam supports a maximum memory card capacity of 512GB. For optimal performance, we highly **recommend using the VIOFO industrial high endurance microSD cards**. These cards are specifically optimized for dash cam recording and provide greater assurances regarding compatibility and long-life durability.

Note: microSD card is not included.



An image demonstrating the smart voice control feature of the VIOFO A329S, showing a driver issuing commands like 'Take photo,' 'Turn on Wi-Fi,' and 'Lock the video' to the dash cam.

6. Video Export and Management

The A329S allows flexible multi-view video export, enabling you to combine footage from different cameras as needed without editing. You can download files directly to your phone via Wi-Fi 6 or use the upgraded USB 3.0 port for faster transfers to a computer.

Loop Recording & Auto Emergency Lock

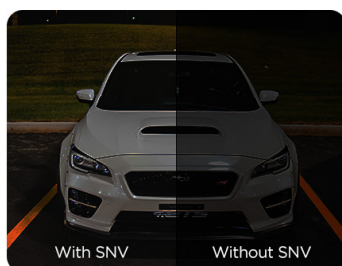
Endless Recording, Instant Protection

A329S supports seamless loop recording, automatically overwriting the oldest videos with the newest ones. With the built-in G-sensor, the dash cam will automatically lock the footage in case of collision or crash, replaying the accident scene for investigation.



An image illustrating the flexible multi-view video export feature of the VIOFO A329S, showing how footage from the front, interior, and rear cameras can be combined and shared easily.

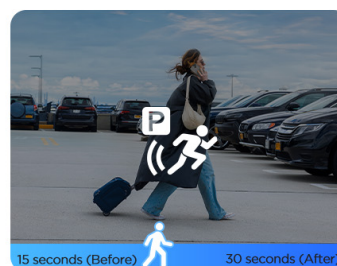
Normal Parking Mode



Super Night Vision (SNV)



Low Bitrate Recording



Auto Event Detection

An image showing the VIOFO A329S dash cam connected to a smartphone via a USB 3.0 cable, highlighting the ultra-fast video download capability to phones.

MAINTENANCE

1. Memory Card Management

- **Formatting:** Regularly format your microSD card (at least once a month) within the dash cam's settings to ensure optimal performance and prevent data corruption.
- **Replacement:** Replace high-endurance microSD cards every 6-12 months, depending on usage, as they have a limited lifespan due to continuous writing cycles.

2. Firmware Updates

Periodically check the VIOFO official website for the latest firmware updates. Firmware updates can improve performance, add new features, and fix bugs. Follow the instructions provided with the firmware download carefully.

3. Cleaning

Gently clean the camera lenses with a soft, lint-free cloth. Avoid using harsh chemicals that could damage the lens coating.

TROUBLESHOOTING

Problem	Possible Solution
Dash cam does not power on.	Ensure the car charger is properly connected to a working 12V/24V outlet. Check the power cable for damage. Try a different power source if available.
Recording stops or files are corrupted.	Format the microSD card regularly. Ensure you are using a high-endurance microSD card. Replace the microSD card if it is old or frequently causes issues.
Wi-Fi connection issues.	Ensure Wi-Fi is enabled on the dash cam and your smartphone. Move closer to the dash cam. Restart both the dash cam and your phone.
Poor video quality (blurry, glare).	Clean the camera lenses. Ensure the CPL filter is correctly installed and adjusted. Check if the protective film has been removed from the lens.
Parking mode not working.	Verify that the optional HK4/HK6 hardwire kit is correctly installed and connected. Check parking mode settings in the dash cam menu.
GPS not tracking location/speed.	Ensure the dash cam has a clear view of the sky. Check GPS settings in the menu. Allow a few minutes for the GPS signal to acquire.

SPECIFICATIONS

Feature	Detail
Model Name	A329S

Feature	Detail
Video Capture Resolution	Front: 4K@30fps, Rear: 2K@30fps, Cabin: 2K@30fps
Image Sensors	Front: STARVIS 2 IMX678, Rear & Cabin: STARVIS 2 IMX675
Connectivity Technology	Wi-Fi 6 (Dual Band), USB 3.0
Special Features	Impact Detection Parking Mode, Next-Gen Wi-Fi 6 Technology, GPS, Voice Control, 3-Channel HDR
Storage Support	microSD card up to 512GB, External SSD up to 4TB
Color	Black
Vehicle Service Type	Car, Van, Minivan
Included Components	A329S 3CH Dash Cam, CPL-600 Filter, HK4/HK6 Hardwire Kit (bundle dependent), Type-C SSD Cable (bundle dependent)
Batteries Included	No

WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please visit the official VIOFO website or contact VIOFO customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Official VIOFO Store: [VIOFO Store on Amazon](#)