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› VIOFO A329S 4K 60FPS Front Dash Cam User Manual

VIOFO A329S

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Model: A329S 1CH

INTRODUCTION

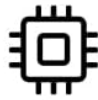
Thank you for choosing the VIOFO A329S 4K 60FPS Front Dash Cam. This manual provides detailed instructions for the installation, operation, and maintenance of your device. Please read it carefully before use to ensure proper functionality and to maximize your dash cam's performance.

Front Channel Recording

Capture Clear License Plate

4K

Front



STARVIS 2 Sensor

HDR

HDR Enhanced Vision



Image: Front view of the VIOFO A329S Dash Cam.

WHAT'S IN THE BOX

Verify that all the following items are included in your package:

- 1x VIOFO A329S Front Dash Cam with GPS Mount
- 1x CPL (Circular Polarizing Lens)
- 1x Car Charger (3.5m)
- 1x Type-C Data Cable
- 1x Trim Removal Tool

- 2x Windshield Static Sticker
- 1x Mount Sticky Pad
- 1x User Manual



**Supports
Backup to SSD**

A329S allows to back up footage from the SD card to the SSD, reducing strain on the SD card and storing more important data on the SSD.



**Supports External
PSSD, Up to 4TB**

Connect a PSSD to your dash cam to record every moment of your adventure. Relive those wonderful memories anytime.

Image: Diagram showing the VIOFO A329S Dash Cam and its included components, such as the car charger, Type-C data cable, CPL, trim removal tool, static stickers, and user manual.

SETUP

1. Memory Card Installation

The A329S supports microSD cards up to 512GB and external SSDs up to 4TB. For optimal performance and durability, we recommend using VIOFO industrial high endurance microSD cards. Ensure the card is inserted correctly into the designated slot until it clicks.

Note: microSD card and SSD storage are not included and must be purchased separately.

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.



Image: Close-up of the VIOFO A329S dash cam showing a microSD card being inserted into its slot.

2. Dash Cam Installation and Cable Connection

Mount the dash cam on your windshield using the provided static sticker and sticky pad. Ensure it does not obstruct your view. Connect the Type-C power cable from the dash cam to the car charger, then plug the car charger into your vehicle's 12V power outlet.

Important: Do not use a mobile phone charger or cable to power the dash cam, as this may cause damage or malfunction.

Cable Connection



 Please don't use the mobile phone charger and cable to power the dash cam



Image: A diagram illustrating the installation of the VIOFO A329S dash cam on the windshield and the proper routing of the power cable to the car charger.

3. Initial Power On

Once connected to power, the dash cam will automatically turn on and begin recording when your vehicle starts. The screen will display the live view. If the device does not power on, check the power connection and your vehicle's 12V outlet.

OPERATING INSTRUCTIONS

1. 4K 60FPS Front Recording

The VIOFO A329S captures video at 4K resolution at 60 frames per second (FPS) for the front camera, providing clear and smooth footage. This high frame rate helps in capturing details like license plates even at higher driving speeds.

Note: 4K 60fps recording is not available when HDR is enabled.

4K 60FPS Recording

Higher Frame Rate, Smoother Video

VIOFO supports both high-resolution 4K and high frame rate 60fps shooting, allowing you to capture clear license plates even when driving at high speeds.



Image: A visual comparison demonstrating the clarity of license plate capture at 4K 60FPS versus 30FPS.

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Video: A demonstration of 4K 60FPS video quality on the VIOFO A329S dash cam, showcasing its ability to capture clear details.

2. Advanced STARVIS 2 Sensor and HDR

The A329S features a STARVIS 2 IMX678 image sensor, which enhances clarity and detail, reduces noise in low-light conditions, and minimizes motion blur. The HDR (High Dynamic Range) feature balances extremely bright and dark areas in the footage, ensuring accurate license plate capture in various lighting conditions.

4K 60FPS



Image: A visual comparison illustrating the improved low-light performance and reduced noise with the STARVIS 2 sensor.

HDR Enhanced Vision 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.



Image: A visual comparison showing the enhanced detail and balanced exposure when HDR is active versus inactive.

3. Parking Modes

The A329S offers various parking modes to protect your vehicle when parked. These modes require the optional HK4/HK6 Hardwire Kit (sold separately) to prevent battery drain.

- **Impact Detection Power Saving Parking Mode:** The camera enters a low-power standby state when the vehicle is off. It instantly starts recording upon detecting a collision.
- **Hybrid Parking Recording:** Combines time-lapse (1fps) or low bitrate recording with impact detection. The camera switches to impact detection recording based on cut-off time or voltage.
- **Normal Parking Mode:** Features Super Night Vision, Low Bitrate Recording, and Auto Event Detection for continuous monitoring.

Impact Detection Power Saving Parking Mode

Prevent Battery Drain

This parking mode features **power saving consumption**, **preventing battery drain**. Once collision is detected, it starts recording instantly. It captures theft, hit-and-runs, and other incidents to safeguard your car with vital evidence.



Power Saving
Consumption



Longer-lasting
Protection



Quick Start
Recording



Image: The VIOFO A329S dash cam monitoring a parked car, illustrating the Impact Detection Parking Mode.

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Video: A demonstration of motion and impact parking mode testing at night, showing the dash cam's recording capabilities in low-light conditions.

4. Wi-Fi 6 App Control

The A329S integrates Wi-Fi 6 technology, enabling faster connection speeds (up to 30MB/s in the 5GHz band). Use the VIOFO app on your smartphone to preview, download, and share videos quickly. A one-minute 4K video can be downloaded in under 10 seconds.

Wi-Fi 6 Dual Band Ultra-Fast Downloads

A329S is powered by advanced Wi-Fi 6 technology, which boosts operation speeds by three times in the 5GHz band, up to 30MB/s, enhancing video previewing, downloading and sharing. **A one-minute 4K video can be downloaded in under 10 seconds.**

3X↑

Transfer speeds
boost

30MB/s↑

Transfer speeds
reach

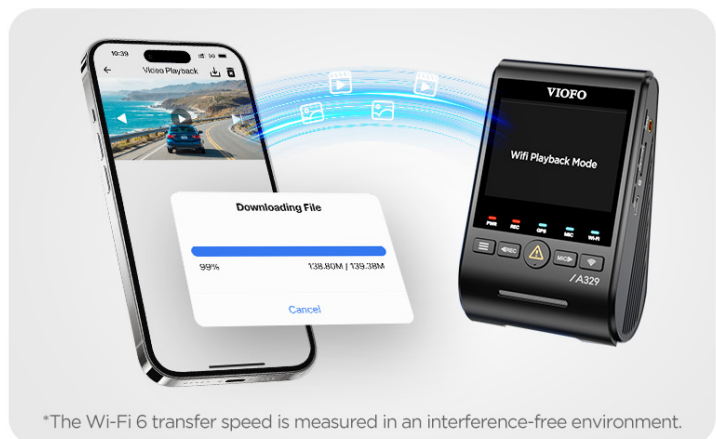


Image: A smartphone screen displaying a video download in progress from the VIOFO A329S dash cam, highlighting the speed of Wi-Fi 6.

5. Smart Voice Control

Operate your dash cam hands-free using voice commands. You can start/stop recording, take photos, and turn Wi-Fi on/off. The device also provides clear voice notifications for setting changes and memory card errors, allowing you to stay focused on driving.

Smart Voice Control & Notification

Ready to Take Action

Stay focused on driving with voice control. The camera allows you to start/stop recording, take photos, and turn on/off WiFi with simple spoken commands in multiple languages. It can also clearly notify you of settings changes or memory card errors.



Image: A driver interacting with the VIOFO A329S dash cam using voice commands, with on-screen prompts for actions like 'Take photo' and 'Turn on Wi-Fi'.

6. Comprehensive GPS Functionality

The built-in GPS module supports four global navigation satellite systems (GPS, BeiDou, Galileo, and GLONASS). This provides accurate location, speed, and time data, which can be viewed when playing back videos on the VIOFO App or the VIOFO PC player.

Accurate GPS Tracking

An Extra Layer of Safety on the Road

The built-in GPS module supports four global navigation satellite systems—GPS, BeiDou, Galileo, and GLONASS—providing detailed location, speed, and time data of the vehicle when playing back video on the VIOFO App or VIOFO PC player.

*If you use the VIOFO App or VIOFO PC player to play back the video and view GPS map, please download the video first.

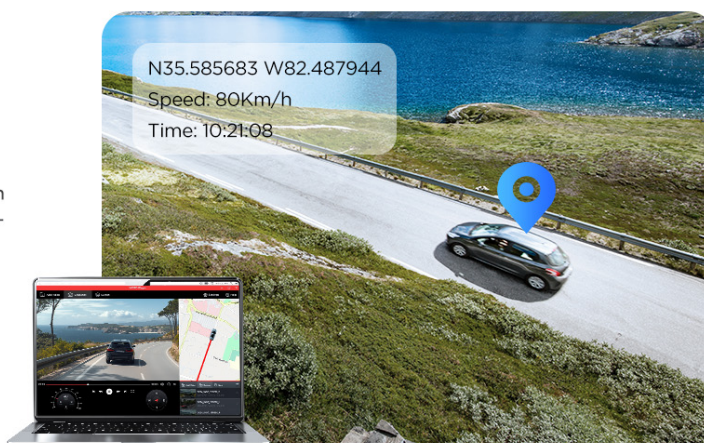


Image: A laptop screen showing a map with a vehicle's route and GPS data, demonstrating the VIOFO A329S dash cam's tracking capabilities.

7. CPL (Circular Polarizing Lens)

The included CPL attaches to the front lens of the dash cam. It helps reduce reflections and glare from the windshield and road surfaces, improving image quality and contrast, especially in bright conditions.

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 (4K 60fps) at normal bitrate is as follows:

512GB	1TB	2TB	4TB
5 Days	10 Days	20 Days	40 Days

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

Image: The VIOFO A329S dash cam with the Circular Polarizing Lens (CPL) attached to the front lens.

8. External SSD Support

The A329S supports external SSDs up to 4TB, allowing for extended recording times (over 3 weeks of footage). This is ideal for long trips or situations requiring extensive storage without constant overwriting. We recommend using the optional VIOFO Type-C SSD cable.

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



Image: A diagram illustrating the VIOFO A329S dash cam connected to an external SSD, with a table showing recording durations for different SSD capacities.

MAINTENANCE

1. Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance and access to new features. Firmware can be updated wirelessly via the VIOFO app using Wi-Fi 6, or by downloading the firmware file to your memory card and inserting it into the dash cam.

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Video: Instructions on how to wirelessly update your VIOFO dashcam's firmware via the mobile application.

2. Memory Card Management

Format your microSD card regularly (e.g., once a month) within the dash cam's settings to maintain optimal recording performance and prevent data corruption. Back up any important footage before formatting.

TROUBLESHOOTING

- **Dash Cam not powering on:** Check the power connection to the car charger and ensure the car charger is securely plugged into the vehicle's 12V outlet. Test the outlet with another device if possible.
- **Recording issues (e.g., freezing, corrupted files):** Ensure you are using a high-endurance microSD card. Format the card regularly. If issues persist, try a different compatible microSD card.
- **Wi-Fi connection problems:** Ensure Wi-Fi is enabled on the dash cam and your smartphone. Try restarting both devices. Make sure you are connecting to the correct VIOFO Wi-Fi network.
- **GPS not working:** Ensure the GPS mount is correctly attached and has a clear view of the sky. Verify GPS settings in the dash cam menu.
- **Voice control not responding:** Check the voice control settings in the menu. Ensure the environment is not excessively noisy.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	VIOFO
Model Name	A329S 1CH
Video Capture Resolution	4K 60FPS (Front)
Image Sensor	STARVIS 2 IMX678
Connectivity Technology	Wi-Fi 6 (Dual Band), Type-C
Special Features	App Control, Built-In GPS, Voice Control, HDR
Field Of View	170 degrees
Screen Size	2.4 inches
Memory Storage Capacity	Supports up to 512GB microSD, 4TB External SSD
Mounting Type	Windshield Mount
Color	Black
Item Dimensions (D x W x H)	1.7"D x 2.4"W x 3.9"H

WARRANTY AND SUPPORT

The VIOFO A329S comes with an 18-month warranty, with an option for a 6-month registered extended warranty. Lifetime technical support is also provided.

For technical assistance or warranty claims, please contact VIOFO support:

- Email: support@viofo.com
- Phone (US): +1 323 505 9898

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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