

## VIOFO A129 Pro Duo

# VIOFO A129 Pro Duo 4K Dual Dash Cam User Manual

Brand: VIOFO | Model: A129 Pro Duo

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VIOFO A129 Pro Duo 4K Dual Dash Cam. Please read this guide thoroughly before use to ensure proper functionality and to maximize your device's performance. This dash cam is designed to record high-quality video footage from both the front and rear of your vehicle, offering enhanced security and peace of mind.

## 2. PRODUCT OVERVIEW

### 2.1. What's in the Box

- Front Camera x 1
- Rear Camera x 1
- Rear Camera Cable (6M) x 1
- Car charger x 1
- Mini USB Cable x 1
- GPS Module (Base) x 1
- Edge Removal Tool x 1
- 3M Sticker x 4
- Static Stickers x 1
- User Manual x 1



Image: All components included in the VIOFO A129 Pro Duo package.

## 2.2. Key Features

- **Ultra HD 4K Dual Channel Recording:** Captures 4K 30fps (front) and 1080P (rear) footage simultaneously using 8MP IMX317 and IMX291 sensors.
- **Super Night Vision & WDR:** Enhanced low-light performance with 7-Glass F1.8 aperture lens and Wide Dynamic Range technology.
- **Advanced Parking Mode:** Features buffered recording (15s before, 30s after event) with Auto Event Detection, Time Lapse, and Low Bitrate options (requires VIOFO HK3 hardwire kit, sold separately).
- **Wireless Wi-Fi & GPS:** Dual-band 5GHz & 2.4GHz Wi-Fi for faster file transfer and app control. Built-in GPS logs speed and location data.
- **2.4" HD Screen:** Provides a clear preview and easy navigation of settings.
- **MicroSD Card Support:** Supports up to 512GB high endurance microSD cards (sold separately).

## 3. SETUP & INSTALLATION

### 3.1. SD Card Installation

Insert a high endurance microSD card (up to 512GB, sold separately) into the designated slot on the main dash cam unit. Ensure the card is formatted before first use. VIOFO industrial high endurance microSD cards are recommended for optimal performance and durability.



Image: VIOFO recommends using their industrial high endurance microSD cards for reliable recording.

### 3.2. Mounting the Front Camera

1. Clean the desired area on your windshield thoroughly.
2. Apply a static sticker to the clean windshield. This allows for easier removal of the dash cam mount later.
3. Peel off the protective film from one side of the 3M adhesive on the GPS module.
4. Attach the GPS module to the static sticker on the windshield.
5. Slide the main dash cam unit onto the mounted GPS module.

### 3.3. Mounting the Rear Camera

Clean the desired area on your rear windshield. Apply a static sticker, then attach the rear camera using its 3M adhesive. Adjust the camera's tilt for optimal viewing.

### 3.4. Wiring and Cable Management

1. Connect the rear camera to the main unit using the provided 6M rear camera cable. Route the cable neatly along

the headliner, down the A-pillar (avoiding airbags), and along the door trim to the rear windshield.

2. Connect the main dash cam unit to the car charger using the Mini USB cable. Plug the car charger into your vehicle's 12V power outlet.
3. Alternatively, for a cleaner installation, you can use a hardwire kit (VIOFO HK3, sold separately) to connect directly to your car's fuse box for continuous power, enabling advanced parking modes.

### 3.5. Power On

The VIOFO A129 Pro Duo is designed to automatically power on and begin recording when your vehicle's ignition is turned on. It will power off automatically when the engine is turned off.



Image: The VIOFO A129 Pro Duo dash cam installed on a windshield, showing its compact design and connectivity with a smartphone app.

## 4. OPERATION

### 4.1. Basic Controls

The dash cam features several physical buttons on its front panel for basic control:

- **Power Button:** Turns the device on/off.
- **Menu Button:** Accesses the settings menu.
- **REC Button:** Starts/stops manual recording.
- **Emergency Button (Triangle Icon):** Manually locks the current recording to prevent it from being overwritten.

- **MIC Button:** Toggles audio recording on/off.
- **Wi-Fi Button:** Toggles Wi-Fi connectivity on/off.

## 4.2. VIOFO App Usage

Download the VIOFO Dashcam app from your smartphone's app store. Connect your phone to the dash cam's Wi-Fi network (5GHz recommended for faster speeds). The app allows for:

- Live view of front and rear cameras.
- Accessing and changing all device settings.
- Downloading recorded videos to your smartphone.
- Firmware updates.

**4X Faster 5GHz Wi-Fi**

Supply more stable and faster 5GHz Wi-Fi speed for viewing, downloading and sharing video.

5GHz Wi-Fi	8MB/s
2.4GHz	2MB/s

VIOFO APP Built-in WiFi

Image: A smartphone showing the VIOFO app interface with a comparison of 5GHz and 2.4GHz Wi-Fi download speeds.

## 4.3. Voice Control

The A129 Pro Duo supports smart voice control for hands-free operation. Use simple spoken commands to:

- Start/stop recording.
- Take photos.
- Turn Wi-Fi on/off.
- Lock the current video.

## 4.4. Parking Modes

The dash cam offers advanced parking surveillance modes to protect your vehicle when parked. These modes require continuous power, typically supplied via a hardwire kit (sold separately).

- **Auto Event Detection:** Records 15 seconds before and 30 seconds after an impact or motion is detected.
- **Time Lapse Recording:** Records video at low frames per second (1/2/3/5/10 fps) continuously without audio, saving storage space.
- **Low Bitrate Recording:** Records continuously at a low bitrate for both front and rear cameras, saving file size while including audio.

### Memory Card Important Tips

**Please don't use the "Sandisk HIGH ENDURANCE" Card,** it is not compatible with VIOFO dash cams, you are likely to encounter the issues like frozen screen, recording failure, constant beeps, corrupted or unplayable files, etc.

We recommend VIOFO Industrial memory card which is especially made for heavy use and write-intensive applications, it can withstand the long-term uninterrupted recording requirements of the dash cam. Learn more about the different recommended memory cards, please see the blog on VIOFO official website.



Image: Diagram illustrating the Auto Event Detection feature, showing buffered recording before and after an event.

## 5. SETTINGS

Access settings via the dash cam's menu buttons or the VIOFO Dashcam app. Key settings include:

- **Video Resolution:** Select desired resolution (e.g., 4K 30fps, 2K 60fps, 1080P).
- **Loop Recording:** Set video clip duration (e.g., 1, 3, 5, 10 minutes).
- **Recording Audio:** Enable or disable audio recording.
- **Exposure Value (EV):** Adjust brightness for front, rear, and interior cameras.
- **HDR (High Dynamic Range):** Enable for improved image quality in high-contrast lighting.
- **G-Sensor:** Adjust sensitivity for impact detection.
- **Date Stamp:** Toggle date and time overlay on video.
- **Bitrate:** Choose video quality (e.g., Normal, High, Maximum).
- **GPS:** Enable/disable GPS logging, set speed unit (KM/H or MP/H), and choose GPS info stamp format.
- **Wi-Fi:** Select 2.4GHz or 5GHz band.
- **Screen Saver:** Set time for screen to turn off automatically.

## 6. MAINTENANCE

- **MicroSD Card:** Use high endurance microSD cards. Regularly format the card (e.g., monthly) to ensure optimal performance and prevent data corruption.
- **Firmware Updates:** Check the VIOFO website or app for the latest firmware updates to ensure your dash cam has the most current features and bug fixes.
- **Cleaning:** Keep the camera lenses and windshield clean for clear video footage.



## 7. TROUBLESHOOTING

- **Dash Cam Not Recording/Restarting:** Ensure you are using a high endurance microSD card. Format the card. Check power connection. Update firmware.
- **Wi-Fi Connectivity Issues:** Ensure Wi-Fi is enabled on the dash cam. Try switching between 2.4GHz and 5GHz bands. Restart both the dash cam and your smartphone.
- **Poor Video Quality:** Clean camera lenses and windshield. Adjust exposure settings. Ensure HDR is enabled in high-contrast situations.
- **GPS Not Working:** Ensure the GPS module is properly connected and has a clear view of the sky. Check GPS settings in the app/device.
- **Memory Card Error:** Use a high endurance microSD card. Format the card. Replace the card if errors persist.

## 8. SPECIFICATIONS

- **Model Name:** A129 Pro Duo
- **Video Capture Resolution:** 4K (Front) + 1080P (Rear), 2K 60fps (Front) + 1080P (Rear)
- **Image Sensor:** Front: 8MP IMX317, Rear: IMX291
- **Field Of View:** Front: 140 Degrees, Rear: 160 Degrees
- **Connectivity Technology:** Wi-Fi (5GHz & 2.4GHz)
- **Display:** 2.4" HD Screen
- **Mounting Type:** Adhesive installation
- **Item Weight:** 1.65 pounds
- **Product Dimensions:** 8 x 5.4 x 3.5 inches
- **Batteries:** 1 Lithium Metal battery required

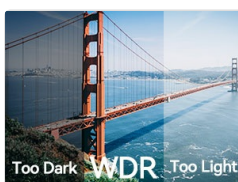
## 9. OPTIONAL ACCESSORIES

Enhance your dash cam experience with these optional accessories:

- **CPL Lens (Circular Polarizing Lens):** Reduces glare and reflections from the windshield.
- **Bluetooth Remote Control:** Allows for quick saving and locking of important videos with a single press.
- **HK3 Hardwire Kit:** Enables advanced parking modes and provides continuous power.



CPL Lens



Bluetooth Remote



Hardwire Kit

Image: Optional accessories for the VIOFO A129 Pro Duo, including CPL lens, Bluetooth remote, and hardwire kit.

## 10. OFFICIAL PRODUCT VIDEOS

### VIOFO A129 Plus Duo Dash Camera Review & Sample Footage

Video: A detailed review of the VIOFO A129 Plus Duo Dash Camera, including sample footage and discussion of its features and performance.

### Is VIOFO A129 Pro Duo Dash Cam 4K Worth It?

Video: An evaluation of the VIOFO A129 Pro Duo Dash Cam's 4K capabilities, assessing its value and performance for users.

### The Unboxing Of VIOFO A129 Pro Duo Dash Cam 4K

Video: An unboxing video showcasing the contents and initial presentation of the VIOFO A129 Pro Duo 4K Dash Cam.

### Piece of Cake - VIOFO Dash Cam First Impressions

Video: First impressions and initial setup of the VIOFO Dash Cam, highlighting ease of use and key features.

## 11. WARRANTY & SUPPORT






VIOFO offers protection plans for your dash cam. You can find options for 2-Year Protection Plan, 3-Year Protection Plan, and Complete Protect (monthly subscription) on the product page. For further support, please refer to the VIOFO official website or contact customer service.

## Related Documents - A129 Pro Duo



### [VIOFO A129 Series Dashcam User Manual](#)

Comprehensive user manual for the VIOFO A129 series dashcams, including A129 Pro, A129 Duo, and A129 Pro Ultra models. Covers features, installation, operation, specifications, and troubleshooting.

	<p><a href="#">VIOFO A129 Plus Duo User Manual - Installation, Operation, and Settings Guide</a></p> <p>Comprehensive user manual for the VIOFO A129 Plus Duo dash cam. Learn how to install, operate, and configure your dual-channel dash cam, covering features like Wi-Fi control, parking mode, and firmware updates. Visit VIOFO support for assistance.</p>
	<p><a href="#">VIOFO A129 Duo Dash Cam User Manual and Guide</a></p> <p>Comprehensive user manual for the VIOFO A129 Duo dual-channel dash cam. Learn about installation, operation, system settings, features like GPS, Wi-Fi, and parking mode.</p>
	<p><a href="#">VIOFO A129 Plus Duo User Manual</a></p> <p>Comprehensive user manual for the VIOFO A129 Plus Duo dash camera, detailing product overview, installation, operation, system settings, and optional accessories. Includes information on recording modes, connectivity, and firmware updates.</p>
	<p><a href="#">VIOFO A129 Duo Dash Cam User Manual: Installation, Operation, and Settings</a></p> <p>A comprehensive guide to the VIOFO A129 Duo dash cam, detailing installation, operation, system settings, smartphone control, and customer support. Learn to maximize your dash cam's features.</p>
	<p><a href="#">VIOFO HK3 Hardwire Kit: Installation and User Guide</a></p> <p>Comprehensive guide to installing and using the VIOFO HK3 Hardwire Kit for VIOFO dashcams, ensuring continuous power and parking mode functionality. Includes specifications, features, and installation steps.</p>