VIOFO A119 Mini 2

VIOFO A119 Mini 2 Dash Cam User Manual

Model: A119 Mini 2

1. Introduction

Thank you for choosing the VIOFO A119 Mini 2 Dash Cam. This manual provides detailed instructions on how to set up, operate, and maintain your device. Please read this manual carefully before use to ensure proper functionality and to maximize your experience with the product.
The VIOFO A119 Mini 2 is a compact and powerful dash camera designed to capture high-quality video footage of your journeys. Featuring the latest STARVIS 2 IMX675 image sensor, it delivers clear 2K resolution videos even in challenging light conditions. Its discreet design ensures it does not obstruct your view while driving.

2. Product Overview

2.1 Package Contents

The VIOFO A119 Mini 2 package includes the following items:

- 1 x A119 MINI 2 Dash Cam
- 1 x Car Charger
- 1 x Type-C Data Cable
- 1 x GPS Module
- 1 x A119 MINI 2 Manual
- 1 x Trim Removal Tool
- 1 x Spare Mount Sticker
- 2 x Windshield Static Stickers

Note: MicroSD card and HK4 hardwire kit are not included and must be purchased separately.

2.2 Key Features

- **STARVIS 2 Sensor:** Utilizes the newest STARVIS 2 IMX675 image sensor for low noise and clear details day

and night.

- **2K 60fps/HDR 30fps Capture:** Records at 2560x1440P@60fps or 2.7K 2592x1944P@30fps, capturing essential details. HDR mode operates at 30fps.
- **DOL-HDR Superb Night Vision 2.0:** Combines STARVIS 2 IMX675 sensor, F1.6 large aperture lens, and DOL-HDR technology for optimized low-light performance and clear license plate capture.
- **Faster 5GHz Wi-Fi:** Provides 4 times faster file transfer speeds for live view, playback, and video downloads via the VIOFO app.
- **Built-in GPS:** Automatically synchronizes satellite time and records driving route, speed, and time data.
- **Smart Voice Control:** Allows hands-free operation for locking video, taking photos, and controlling Wi-Fi with simple voice commands.
- **24/7 Buffered Parking Mode:** Offers Auto Event Detection (with 15s pre-recording), Low Bitrate Recording, and Time Lapse Recording. Requires optional HK4 hardwire kit.
- **Supercapacitor:** Ensures stable power and excellent performance in extreme temperatures (5℉ to 149℉), extending camera reliability and lifespan.
- **Compact Design:** Mini size allows for concealed installation behind the rearview mirror, minimizing obstruction.

2.3 Product Diagram



The VIOFO A119 Mini 2 Dash Cam shown alongside a smartphone displaying its companion app, highlighting features like 2K HDR and 5GHz Wi-Fi connectivity.



Diagram illustrating the compact size of the A119 Mini 2 (1.63 x 1.81 x 2.93 inches) and its discreet placement behind a rearview mirror, along with the charging cable connection.

3. Setup

3.1 Initial Preparation

1. **Insert MicroSD Card:** Ensure the dash cam is powered off. Insert a high-endurance microSD card (Class-10 or UHS-I rating, up to 512GB) into the designated slot until it clicks.
2. **Attach GPS Module:** If using the GPS module, attach it to the dash cam.

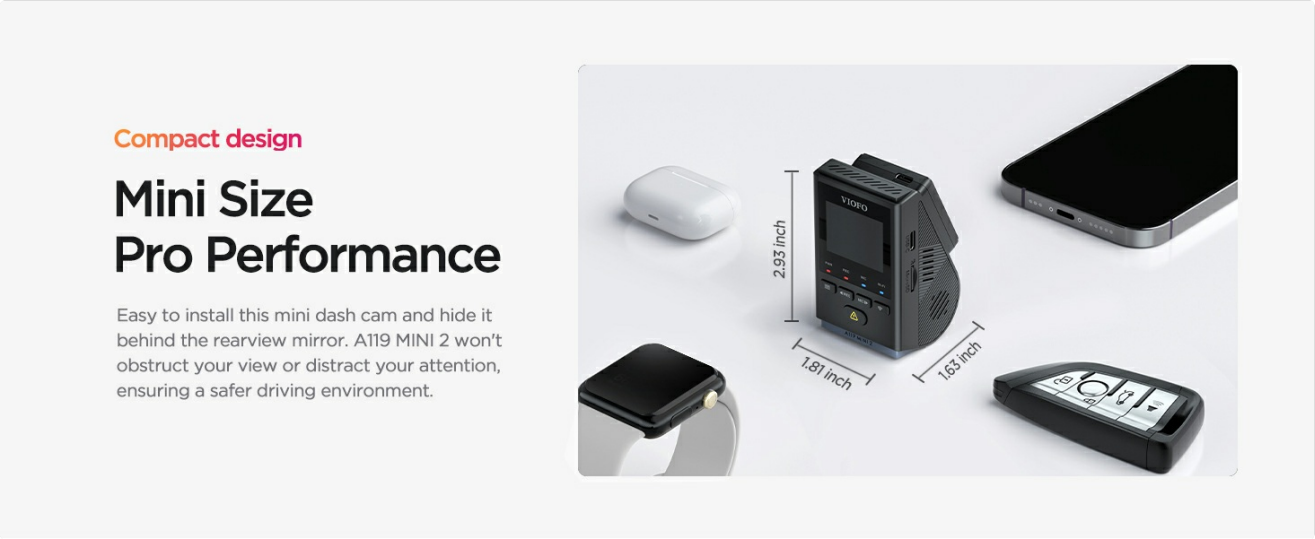
3.2 Installation in Vehicle

The A119 Mini 2 uses 3M adhesive for secure mounting to your windshield.

1. **Clean Windshield:** Choose a suitable location on your windshield, ideally behind the rearview mirror,

ensuring it does not obstruct your view. Clean the area thoroughly to remove any dust or grease.

2. **Apply Static Sticker:** Apply one of the provided windshield static stickers to the cleaned area. This helps in easier removal of the dash cam mount later.
3. **Attach Mount:** Peel off the protective film from the 3M adhesive on the dash cam mount. Press the mount firmly onto the static sticker for at least 30 seconds. Allow 24 hours for the adhesive to fully bond before driving.
4. **Connect Power:** Connect the provided car charger to your vehicle's 12V power outlet and the Type-C data cable to the dash cam. Use only the original car charger and cable to power the dash cam.



Visual guide for installing the VIOFO A119 Mini 2 dash cam, showing its placement near the rearview mirror and connection to the car charger.

4. Operation

4.1 Power On/Off

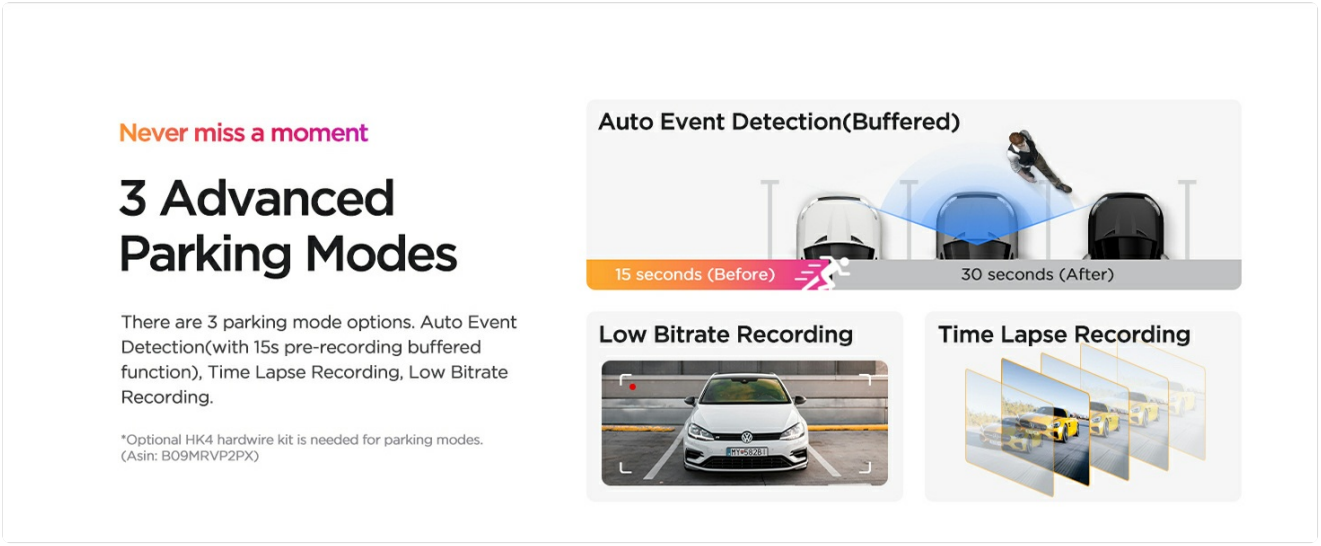
The dash cam will automatically power on and begin recording when connected to your vehicle's power and the ignition is turned on. It will power off automatically when the ignition is turned off.

4.2 Basic Recording

Once powered on, the dash cam will automatically start loop recording. Video files are saved to the microSD card in segments (e.g., 1, 3, or 5 minutes). When the memory card is full, the oldest videos will be overwritten by new ones.

4.3 Emergency Lock

In case of an incident, the built-in G-sensor will detect sudden movements (like collisions) and automatically lock the current video file, preventing it from being overwritten by loop recording. You can also manually lock a video by pressing the emergency lock button on the dash cam or using voice commands.

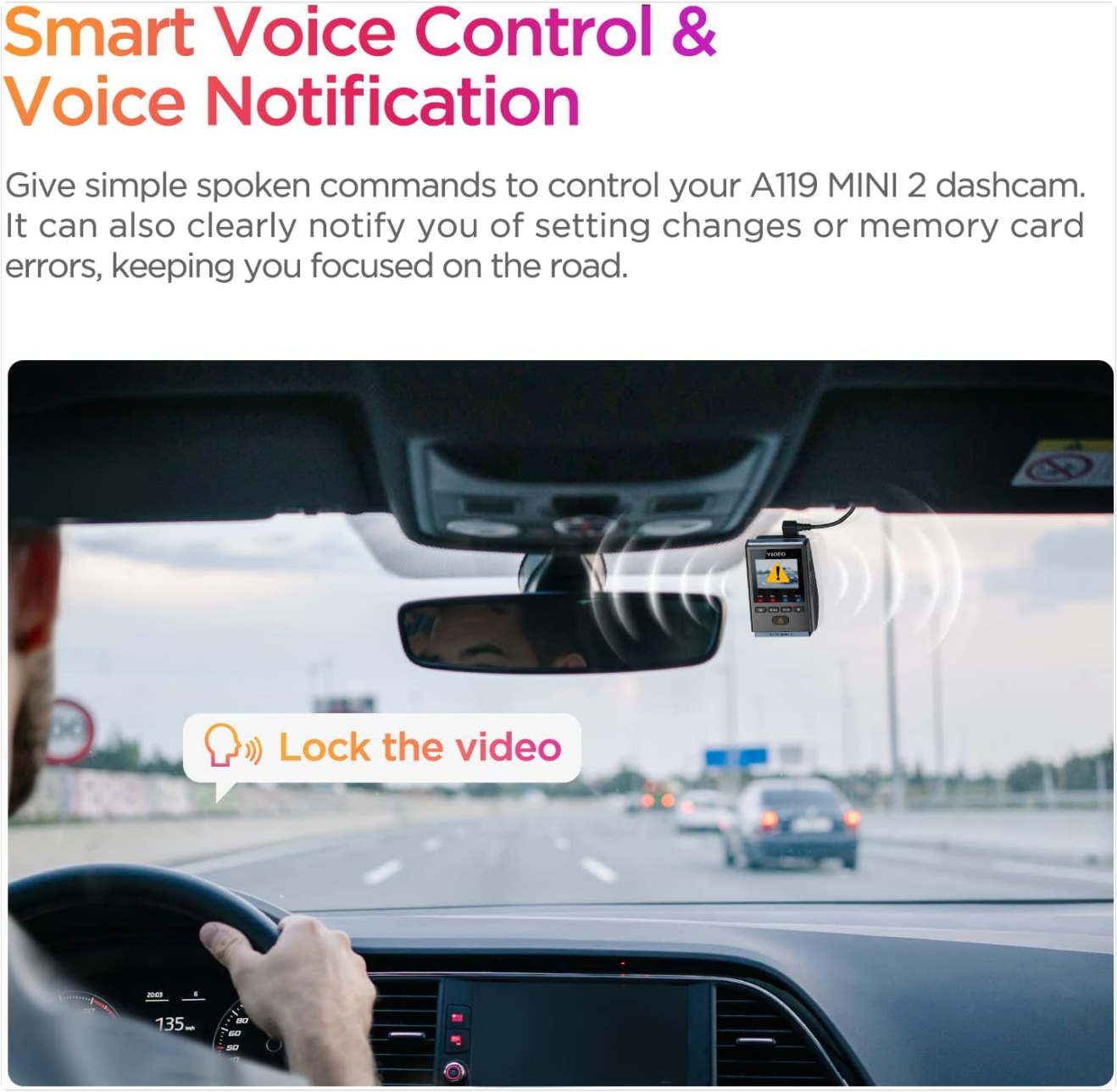


Visual representation of the dash cam's loop recording function, which overwrites old files, and the emergency lock feature that protects important video segments from being deleted.

4.4 Smart Voice Control

The A119 Mini 2 supports voice commands for convenient hands-free operation. Voice notifications will inform you of setting changes or memory card errors.
Examples of voice commands:

- "Lock the video"
- "Take photo"
- "Turn on Wi-Fi"
- "Turn off Wi-Fi"
- "Turn on audio"
- "Turn off audio"
- "Video start"
- "Video stop"



A driver interacting with the VIOFO A119 Mini 2 using voice commands, such as "Lock the video," for hands-free operation.

5. Parking Mode

The VIOFO A119 Mini 2 offers three advanced parking modes to protect your vehicle when parked. To utilize these modes, the optional HK4 hardwire kit (ASIN B09MRVP2PX) is required.

5.1 Auto Event Detection (Buffered)

This mode automatically records a 45-second video (15 seconds before and 30 seconds after) when an event is detected, such as a collision or significant motion.

5.2 Low Bitrate Recording

Continuously records video in a smaller file size, including audio, to save storage space while maintaining surveillance.

5.3 Time Lapse Recording

Records video at a low frame rate (e.g., 1 frame per second) to condense long periods of surveillance into short, playable videos.

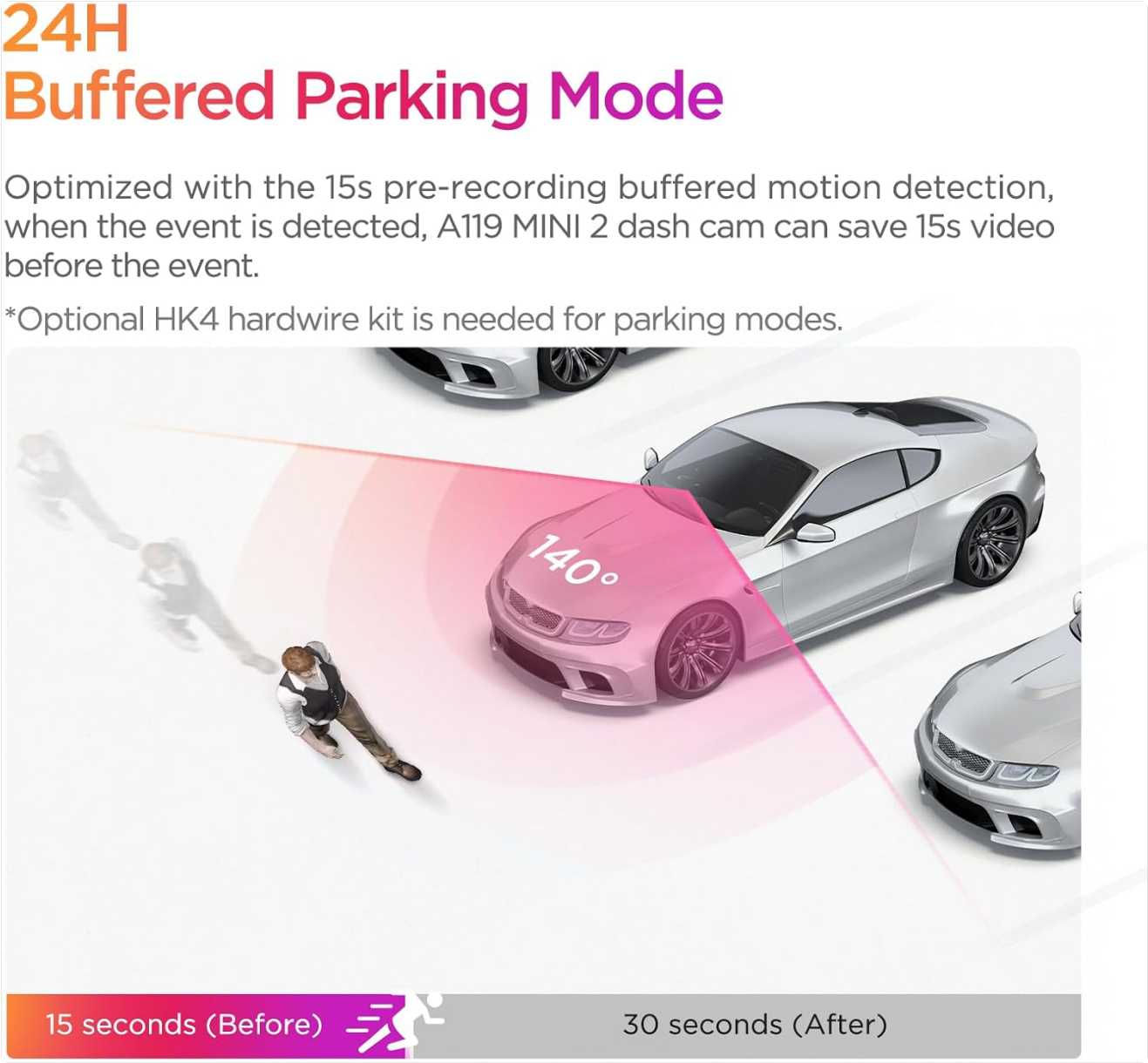


Illustration of the 24-hour buffered parking mode, showing how the dash cam captures video 15 seconds before and 30 seconds after a detected event within a 140-degree wide angle.

6. Wi-Fi and App Connectivity

The VIOFO A119 Mini 2 features 5GHz Wi-Fi for fast and stable connection to your smartphone via the VIOFO app (available for iOS and Android).

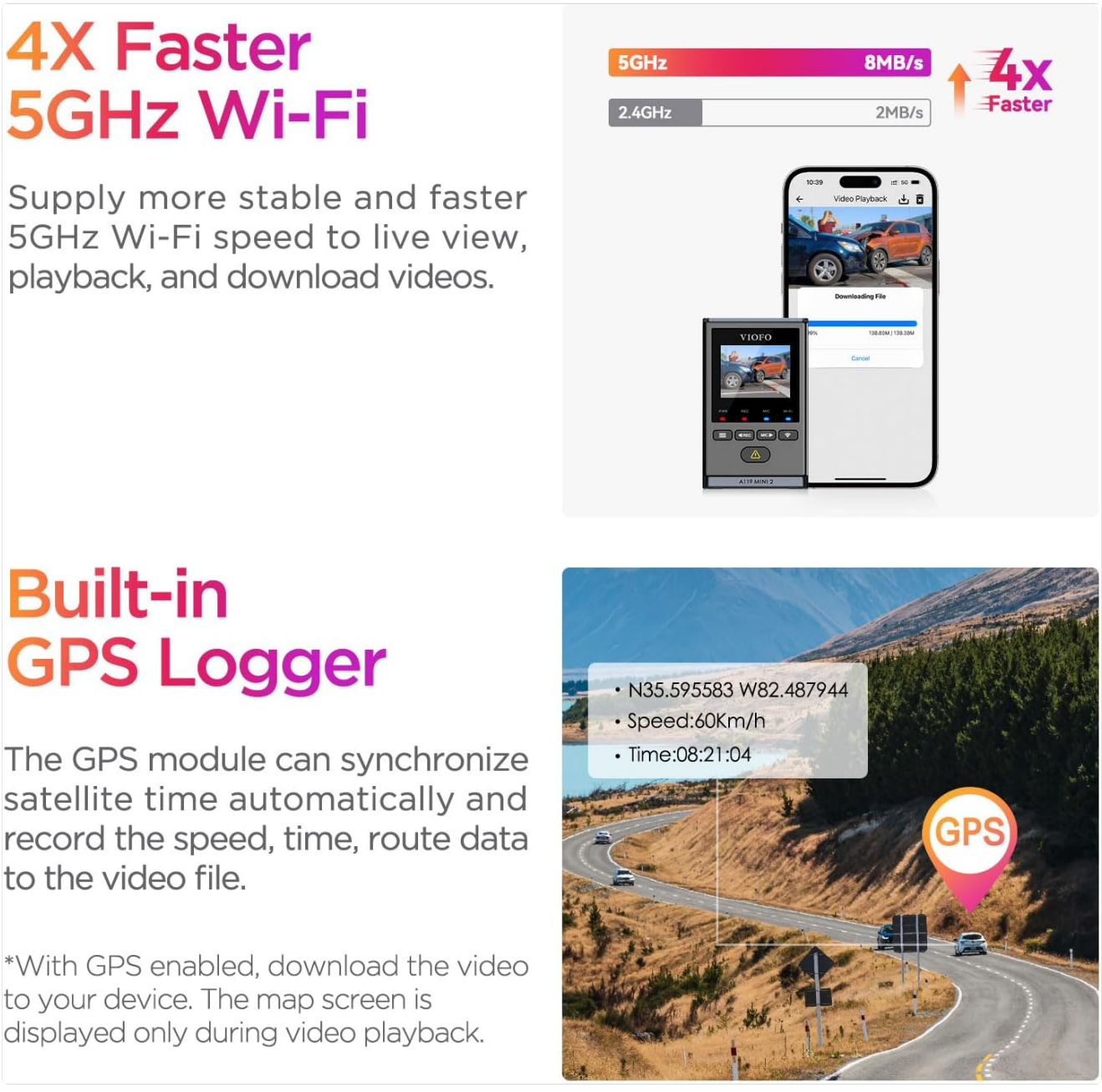
6.1 Connecting to the App

1. Turn on Wi-Fi on the dash cam (via voice command or button).
2. On your smartphone, go to Wi-Fi settings and connect to the VIOFO dash cam's Wi-Fi network.
3. Open the VIOFO app. The app will automatically connect to the dash cam.

6.2 App Functions

Through the VIOFO app, you can:

- Live view the camera feed.
- Playback recorded videos.
- Download video files to your phone (4 times faster with 5GHz Wi-Fi).
- Adjust dash cam settings.
- Update firmware.



The VIOFO A119 Mini 2 dash cam demonstrating its 5GHz Wi-Fi capability, which offers 4 times faster file transfer speeds compared to 2.4GHz.

7. GPS Functionality

The built-in GPS module automatically synchronizes satellite time and records crucial driving data.

7.1 Data Recording

The GPS module records the following data into your video files:

- Driving route
- Speed
- Time data

7.2 Viewing GPS Data

With GPS enabled, you can download the video to your device via the VIOFO app. The map screen displaying your route and data is available only during video playback within the app.

8. Memory Card Recommendations

For optimal performance and longevity, VIOFO recommends using industrial high-endurance microSD cards specifically optimized for dash cam recording. These cards are designed to withstand heavy writing cycles and harsh conditions.

8.1 Recommended Specifications

- **Class:** Class-10 or UHS-I rating
- **Capacity:** Up to 512GB

Note: Low-quality or incompatible memory cards can lead to recording failures and other issues. If you experience stop-recording issues, consider using VIOFO industrial-grade memory cards.



Image showing the contents of the VIOFO A119 Mini 2 package, along with a recommendation for VIOFO Industrial Grade microSD cards in 64GB, 128GB, 256GB, and 512GB capacities.

9. Maintenance

9.1 Cleaning the Lens

Regularly clean the camera lens with a soft, lint-free cloth to ensure clear video quality. Avoid using abrasive cleaners that could scratch the lens.

9.2 Formatting MicroSD Card

It is recommended to format the microSD card regularly (e.g., once a month) within the dash cam's settings to maintain optimal recording performance and prevent data corruption.

9.3 Firmware Updates

Periodically check the VIOFO official website for firmware updates. Keeping your dash cam's firmware up-to-date ensures you have the latest features and bug fixes.

10. Troubleshooting

Problem	Possible Cause / Solution
Dash cam does not power on.	Check power connection. Ensure the car charger is properly inserted and the vehicle's ignition is on. Try a different power outlet if available.
Dash cam stops recording or shows memory card error.	The microSD card may be incompatible or corrupted. Format the card in the dash cam. If issues persist, replace with a high-endurance, Class-10/UHS-I microSD card (e.g., VIOFO industrial grade).
Wi-Fi connection is unstable or slow.	Ensure you are connected to the dash cam's 5GHz Wi-Fi network. Move closer to the dash cam. Restart both the dash cam and your smartphone.
Voice control is not responding.	Ensure the microphone is not blocked. Speak clearly and directly towards the dash cam. Check voice control settings in the menu.
Video footage is blurry or unclear.	Clean the camera lens. Ensure the protective film has been removed from the lens. Check if the windshield is clean in front of the camera.
GPS data is not recorded or displayed.	Ensure the GPS module is properly attached. Verify GPS is enabled in the dash cam settings. GPS data is only displayed during video playback in the app after downloading.

11. Specifications

Feature	Detail
Model Name	A119 Mini 2
Product Dimensions	1.63 x 1.81 x 2.93 inches
Item Weight	15.8 ounces
Video Capture Resolution	2K 2560x1440P; 2592x1944P

Feature	Detail
Image Sensor	STARVIS 2 Sensor IMX675
Lens	140° Wide Angle F1.6 Large Aperture 7-Glass Lens
Display	1.5" HD LCD Screen
Connectivity Technology	Wi-Fi (5GHz & 2.4 GHz Dual Band)
Special Features	2K HDR 30fps, DOL-HDR Super Night Vision 2.0, Smart Voice Control, GPS Logger, Voice Notification, Supercapacitor, 24/7 Buffered Parking Mode, Loop Recording, G-Sensor & Emergency Lock, Screen Saver
Storage Support	MicroSD card up to 512GB (Not Included)
Mounting Type	3M Sticker & Static Windshield Sticker
Power Source	Car Charger (Supercapacitor for power stability)

12. Warranty and Support

VIOFO products are manufactured with high standards and undergo rigorous quality control. For warranty information and technical support, please refer to the official VIOFO website or contact their customer service directly.
You can also find the official User Manual in PDF format for further details:VIOFO A119 Mini 2 User Manual (PDF)

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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.

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