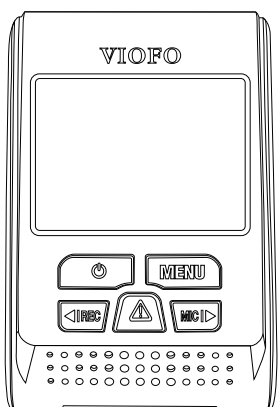
A119 V3

User Manual



The user manual is available on
https://viofo.com/en/content/42-help-and-support/

V24.12.06

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Notice

- Do not install or operate the camera with wet hands.
- Do not install the camera in a humid location or anywhere near liquids and inflammable gases. The camera should be installed/mounted in a location that does not compromise the driver's visibility and safety.
- Do not leave the camera installed/mounted inside an airtight vehicle being exposed to extreme heat.
- Do not use the power that exceeds the rated voltage.
- Only use the original charging cable. The manufacturer is not liable for damage resulting from the use of other charging cables.
- Do not disassemble the camera or its charging cable. Do not cut the charging cable. Damage caused will not be covered under warranty.
- Do not press the lens forcefully.
- Do not use any sharp objects on the camera or its accessories.
- Do not remove the Micro SD card when the camera is recording or shutting down (avoids file damage).
- To ensure stable read and write operations, it is necessary to format the Micro SD card in-camera before initial use.
- Do not interrupt the power supply during a system upgrade, or else the camera may not boot
- Product features/functions and content of this manual may change without further notice.

Product Overview

■ Standard Items

Front Camera

Car Charger

USB Data Cable

Non-GPS Mount x2

Trim Removal Tool

EVA Foam

Spare Mount Sticky Pad

Clips

Windshield Static Stickers x2

Note: The long mini USB cable is for charging, the short USB cable is for transferring files while connecting the camera with computer.

■ Optional Accessories

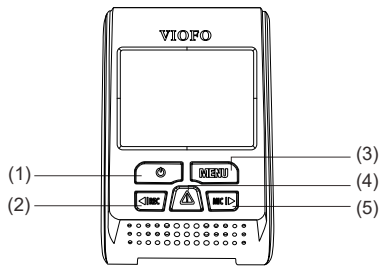
GPS Module

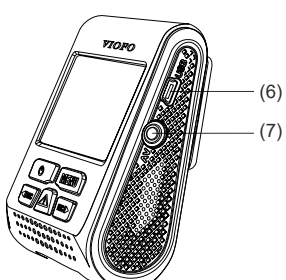
CPL

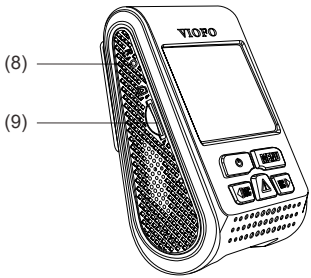
HK3 Hardwire Kit

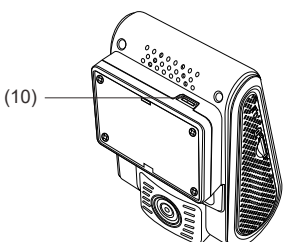
MicroSD Card

■ Product Diagram









(1) Power
(2) Rec / Left
(3) Menu
(4) Emergency / Confirm
(5) Mic / Right
(6) USB Port
(7) AV Out
(8) Reset
(9) Card Slot
(10) USB Port

■ LED Indicators

LED Color	Behavior
Solid Red	Power ON, Recording
Flashing Red	1. Power ON, not recording 2. Upgrading

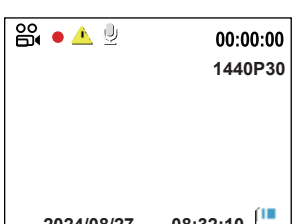
■ Buttons and Icons

Mode	Buttons	Behavior
Stand-by Mode	⏻	To turn on / off device
	MENU	Click once to enter the settings menu
	⚠	Enter Playlist
	◁I REC	Click once to start recording
	MIC I▷	Click once to disable audio recording Click again to enable audio recording

Recording Mode	⏻	Click once to turn the screen OFF, Click again to turn the screen ON
	MENU	Click once to capture a photo
	⚠	Click once to lock the file being recorded
	◁I REC	Click once to stop recording
	MIC I▷	Click once to disable audio recording, Click again to enable audio recording

Playlist Mode	⏻	To turn on / off device
	MENU	Back to previous menu
	◁IREC	1. To select the last video 2. To delete the video
	MIC I▷	1. To select the next video 2. To lock / unlock the video
	⚠	1. To enter the video selected 2. To play / pause the video

Setting Menu Mode	⏻	Click once to turn the screen OFF, Click again to turn the screen ON
	MENU	One click can back to recording mode
	◁IREC	To select the last feature
	MIC I▷	To select the next feature
	⚠	To enter the feature selected



Recording Mode
00:00:00 Recording Time
1440P30 Video Resolution
Recording Status
Emergency Lock
Microphone
SD Card

Installation

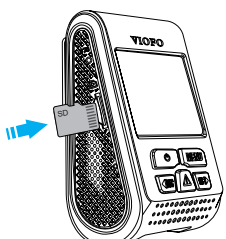
■ Inserting / Removing the memory card

Inserting the memory card

Push the memory card into the card slot until you hear a click, with the card label facing the forward (away from the screen).

Removing the memory card

Ensure that the camera is turned off / not recording, and then push the edge of the memory card with your fingernail. The card will spring out far enough to be removed.



Note:

- The microSD card is sold separately. The microSD card must have a Class-10 or UHS-I rating and the capacity is up to 256GB.
- We recommend that you buy VIOFO industrial grade microSD card for extended endurance, excellent performance and reliability.
- Memory card must be formatted before first use. Please format the card on a computer or in the camera to the FAT32 file system.
- Please unplug the power cable before inserting or removing the microSD card.
- Inserting or removing the microSD card while recording may destroy the files.

Formatting the card

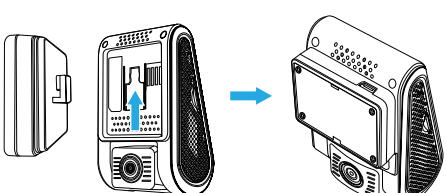
Format the card ('Format' option in Dash Camera 'System settings') to prepare for first use in the dash camera.
Formatting will permanently erase any data on the micro SD card. For best performance, format periodically (after backing up any important files).

■ Install the Dashcam

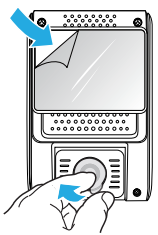
1) Install the Mount

① Slide the mount into the slot on the back of the camera.

Optionally, apply the EVA foam pad onto the dashcam to enhance the stability between the mount and camera body (Refer to guide on page 12-13).



② Peel the protection film off the sticky pad and camera lens.



③ Choose a suitable location to install / mount the camera; ensuring that it provides the best possible view.

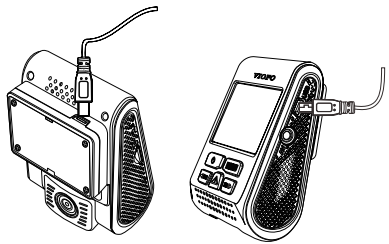
Mount the dashcam directly to the windshield with the sticky pad, or attach the static sticker to the selected location before installation (Refer to guide on page 14).

2) Connect to Car Charger

Plug the USB charging adapter into your vehicle's 12V/24V female power socket. Insert the Mini USB cable's male port into the camera's female Mini USB port.

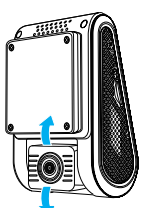
Note:

① For GPS version mount, use the female Mini USB port on the mount or on the camera's side.
② For non-GPS version mounts, use the female Mini USB port on the camera's side.



3) Adjust the View Angle

Adjust the angle by moving the lens up / down.



Tips:

• Do not turn on 'Motion Detection' unless your vehicle is parked. If 'Motion Detection' is enabled while driving, the camera may not record continuously.

• It is recommended to keep the G-sensor set to 'Low' (default setting).

• Do not install / mount the camera in a location that interferes with the driver's visibility and safety.

• Install / mount the camera close to the rearview mirror so that both sides of the scene being recorded are equally covered by the camera's FOV (field of view).

• To ensure a clear view on rainy days the lens should be positioned within the windshield wiper's sweeping range.

• Do not install / mount the camera on or near airbag panels.

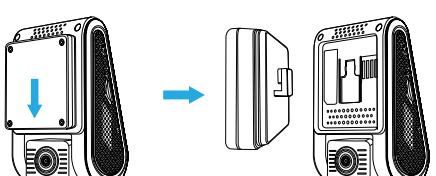
• Installation / mounting location should not be affected by sun control film (window tint). There should not be any other electronic equipment close to the camera for optimal performance.

Note:

Do not install / mount the camera on or near an airbag panel or within the airbag's working range. The manufacturer is not liable for any injury or death caused by the deployment of the airbag.

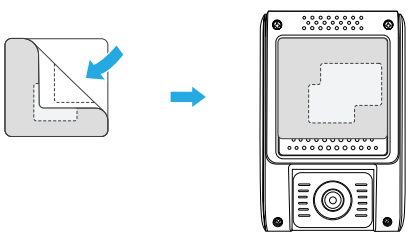
■ Install the EVA Foam (Optional)

1. Slide the mount off the back of the camera.



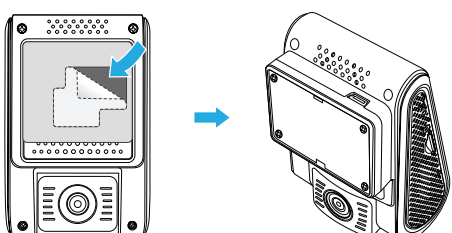
2. Peel the EVA foam off.

3. Align the foam to the edge of dashcam as shown in the figure, and press it firmly.



4. Remove the cut-out area piece.

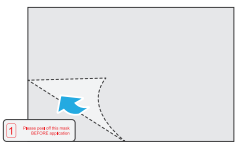
5. Slide the mount into the slot on the back of the camera.



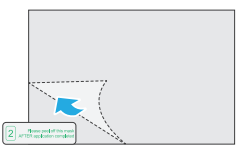
■ Install the Static Sticker (Optional)

1. Wipe clean the surface of the windscreen before installation.

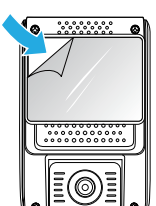
2. Peel the red sign protective film off the static sticker, then attach the sticker to the windscreen. Press it for a few seconds, making sure no bubbles are left.



3. Peel the green sign protective film off the static sticker.



4. Peel the protection film off the sticky pad on the mount, and attach it to the sticker. Press the camera hard for a few seconds, making sure it is attached firmly.



Dashcam Operation

1) Switch ON

Insert the Micro SD card into the camera's card slot. Plug the USB car adapter into the vehicle's 12V/24V female power socket, connect the Mini USB cable's USB port end to the USB car adapter and the Mini USB end to the camera's female Mini USB port. Start the engine, the device will switch ON automatically.

2) Switch OFF/ON

1. Automatic: When the camera is ON, simply turn OFF the engine or unplug the charging cable and the camera will switch OFF automatically.
2. Manual: Switching the camera OFF manually is required for vehicles where the 12V/24V female power socket provides continuous power after the engine is turned OFF.
3. When the camera is ON, press and hold the power button for at least 5 seconds to turn the camera OFF.
4. Press the power button for at least 3 seconds to turn the camera ON.

3) Loop Recording

1. Insert a Micro SD card into the camera's card slot and automatic loop recording will begin once the camera detects power.
2. Time frame for each video file is 1/2/3/5/10 minutes.
3. When there is insufficient space on the Micro SD card, loop recording will automatically overwrite the oldest files (one by one).
4. Loop recording files are saved to SD card: \DCIM\Movie folder.

4) Emergency Recording

1. Automatic emergency recording
   When the G-sensor is activated due to a collision, current footage will be automatically locked to avoid being overwritten by loop-recording.
   (**Note:** Collision sensing feature can be adjusted in settings under the "G-sensor" option)
2. Manual emergency recording
   Pressing the emergency record button during a recording will lock the current file being recording. Once locked, the file will not be overwritten by the loop-recording feature.

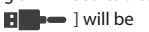
5) Motion Detection

If turned ON, the camera will start recording on detecting any movement within its FOV (field of view). Once the camera does not detect any movement for 60 seconds, it will stop recording and go back to 'Motion-Detection' mode. A recording will resume if any new movement is detected.

6) Play

1. Under video mode, press [⚠] button to access the playlist.
2. Use the arrow buttons [◀REC MIC▶] to select the desired video and press the [⚠]button to play.
3. Press the menu button to exit.

7) PC Mode

1. Connect the camera to a computer using a Mini USB cable.
2. Device will automatically turn on and [] will be displayed.
3. The computer will detect “removable disk”.
4. There will be three folders under the DCIM folder:
   \ Movie (Loop recording video files)
   \ RO (Event recording files)
   \ Photo (Video snapshot)
5. Copy files are needed to computer drive.

8) Mute

During a private conversation, pressing the ‘ MIC ’ button will mute the audio.

9) Firmware Upgrade

1. Download the latest firmware, unzip the file. Copy & paste or drag & drop the .bin file to the root of the Micro SD card.
2. Insert the Micro SD card into the camera’s card slot once the transfer is completed.
3. Plug into a power source and then turn the camera ON.
4. LED indicator will start flashing to confirm the update’s progress.
5. The camera will automatically reboot after the upgrade is completed.
6. Currently installed firmware version can be verified by accessing the ‘Version’ tab within the settings menu (last tab).

Note:

• Before using a Micro SD card to upgrade the firmware, formatting the card in-camera is necessary to ensure stable read and write operation.

• Do not unplug or power-off the camera during a firmware upgrade, it may cause the camera to fail from booting.

Dashcam Settings

Press the Menu button during video mode to access the settings. (recording need to be stopped)

• **Resolution:** Setting a video resolution of footage recorded 2880x2160P 30fps; 2560 x 1600P 30fps; 2560 x 1440P 30fps; 2304 x 1296P 30fps; 1920 x 1080P 60fps; 1920 x1080P 30fps; 1280 x 720P 120fps; 1280 x 720P 60fps; 1280 x 720P 30fps, are available for selection.

Note:

The front cam 60fps is not available while HDR is enabled. With HDR enabled, the frame rate will automatically switch to 30fps.

• **Bitrate:** You can set the bitrate for video. High bitrate may improve the quality and smoothness of the video, especially when recording fast motion or high contrast scenes. Using high bitrate mode may decrease the amount of recording time available on your memory card. Using a low bitrate will save space and record for a longer time.

• **Loop Recording:** Off / 1 / 2 / 3 / 5 / 10 minutes.

• **Video Format:** The options are . MP4 and . TS video format. TS format is better to avoid file corruption.

• **Exposure:** Adjust the value of the EV (Exposure Value) to obtain better recording results under different light sources. The range is from-up to +2.0. The default is set at 0.0.

• **HDR (High Dynamic Range):** On / Off. HDR enables the camera to deliver video with near-perfect exposure in varying lighting situations. It can enhance video quality, especially when it comes to the issue of the front license plate being overexposed at night.

• **Parking Mode:** There are 3 options under parking mode:

① Auto event detection:

The camera will automatically record for 1 minute while a moving object is detected during parking. And it will stop recording if there are no new movements.

② Time lapse recording:

Time-lapse record a video at low frames at 1 / 2 / 3 / 5 / 10 fps, It keeps recording continuously without audio recorded.

③ Low bitrate recording:

This mode record video in low bitrate 4MB/s for both front and rear. It keeps recording continuously in mini file size with audio recorded.

Note:

1. We recommend buying VIOFO HK3 ACC hardwire kit cable for parking mode recording.
2. In case you park the car outside in hot summer, we highly recommend time lapse recording mode. If the temperature inside the car goes above 60°C, we advise turning off the dashcam to avoid recording errors or even irreversible damages.

• **Enter Parking Mode Timer:** Set the timer for entering parking mode.

• **Parking Recording Duration:**

"On" means the camera will keep recording until the hardwire kits cut the power supply.

"1 hour" means the camera will shut down after it gets into parking mode for 1 hour.

• **Parking G-sensor:** The G-sensor detects significant or sudden movement (such as an impact or collision), it will trigger an event recording. We suggest setting it to High sensitivity in parking mode recording.

• **Parking Motion Detection:** Adjusts the sensitivity of the motion detection so minor motion caused by wind or rain doesn't trigger a recording while in parking mode.

• **Parking Motion Detection:** Adjusts the sensitivity of the motion detection so minor motion caused by wind or rain doesn't trigger a recording while in parking mode.

• **Time-lapse Recording:** Record video from frames captured at specific time intervals to conserve memory and reduce the time it takes to review video. The default is off.

• **Motion Detection:** When this feature is activated, a recording will begin if there is movement in front of the camera. Once the camera does not detect movement for 60 seconds, the recording will be stopped and the device will switch to detect mode. The device will record again if it will detect a new movement in front of the camera.

• **GPS:** Turns on / off GPS tracking. If disabled, your camera will no longer measure your speed and position nor synchronize the time/date with the atomic clock. (only available when connecting with GPS signal) Please use"Dashcam Viewer" to playback videos and to visualize your position and speed on your computer.

• **Speed Unit:** Sets the speed unit, kilometer per hour (KPH) or miles per hour (MPH).

• **G-sensor:** The G-sensor measures g-shock forces. The setting from 'Low' to' High' determines the amount of force needed to lock the file from being overwritten by loop-recording. We recommend leaving it set to 'Low'.

• **Date Stamp:** Imprints the time and date on the recorded video.

• **GPS Info Stamp:** Imprints the GPS information on the recorded video.

• **Camera Model Stamp:** Imprints the camera model on the recorded video.

• **Speed Unit:** Sets the speed unit, kilometer per hour (KPH) or miles per hour (MPH).

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• **Date Stamp:** Imprints the time and date on the recorded video.

• **GPS Info Stamp:** Imprints the GPS information on the recorded video.

• **Camera Model Stamp:** Imprints the camera model on the recorded video.

• **Record Audio:** Turns the microphone ON / OFF. This can be also activated by pressing the [MIC]button while the camera is recording.

• **Screen Saver:** Turns the screen OFF after a set time.

• **Boot Delay:** The camera will boot seconds later when powered on. The settings are Off / 5s / 10s.

• **LED:** Turns the LED light ON / OFF.

• **Date / Time:** System date / time setting.

• **Time Zone:** Sets the current time zone for GPS time and date calibration.

Note: the time zone must be manually adjusted for daylight savings.

• **Language:** Display language setting (English, Traditional Chinese, French, etc.).

• **Beep Sound:** Turns all notification sounds ON / OFF.

• **Frequency:** Frequency adjustment setting to minimize flickering and banding in recorded video.

• **Image Rotation:** Turns the screen upside down.

• **Format:** The operation will delete all data on the Micro SD card.

Note: Once you format the Micro SD card, all information will be deleted and cannot be restored. Make sure you back up all important files before proceeding.

• **Format Warning:** Sets the number of days between format warnings.

• **Default Setting:** Restore camera to factory defaults.

• **Car Number:** Imprints a customized set of 11 digits to the recorded video. Useful to add license plates or identifying features.

• **Custom Text Stamp:** Imprints the customize text on the recorded video.

• **Firmware Version:** Current firmware version check.

Customer Service

Thanks for choosing VIOFO!
From the date of purchase on, all products are warranted for 18 months and all accessories are warranted for 12 months. VIOFO offers lifetime technical support for all our users. We are committed to making sure that you are 100% satisfied with our products and services.

Product Registration Program

VIOFO also have Product Registration Program to help customers extend warranty by 6 months.
Visit www.viofo.com and register your new product to extend the warranty from 18 months to **24** months.

Scan the QR code to activate
6-month extended warranty now

Video Sharing

Share videos caught on VIOFO camera with us. Let's enjoy your new findings together! Gain a chance to get a mysterious gift at **share@viofo.com**.

How to Contact Us ?

- Submit a ticket at support.viofo.com
- Live chat box at www.viofo.com
- support@viofo.com
- www.facebook.com/viofo
- +86 755 8526 8909 (CN)
- Mon-Fri 9am-6pm

Scan the QR code to submit a ticket