

A119M Pro

USER MANUAL

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

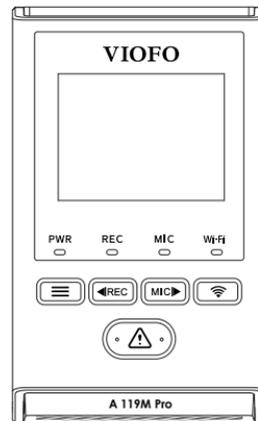


Table of Contents

| | | | |
|---|-----------|--|-----------|
| 1. Product Overview | 1 | 5. Review and Control on Smartphone | 18 |
| Standard Items | 1 | Connect to Smartphone | 18 |
| Optional Accessories (Sold Separately) | 2 | APP Layout Overview | 19 |
| Product Diagram | 3 | 6. Install Accessories | 21 |
| LED Indicators | 4 | Install CPL | 21 |
| Buttons and Icons | 5 | Install Remote Control | 22 |
| Display Overview | 7 | 7. System Settings | 23 |
| 2. Installation | 8 | 8. Firmware Upgrade | 29 |
| Insert / Remove the Memory Card | 8 | 9. Notice | 29 |
| Install the Dashcam | 9 | 10. Customer Service | 31 |
| Install the Static Sticker | 12 | | |
| Remove the Dashcam | 13 | | |
| 3. Dash Cam Recording Operation | 14 | | |
| Power On / Off | 14 | | |
| Loop Recording | 14 | | |
| Emergency Recording | 14 | | |
| Disable / Enable Audio Recording | 15 | | |
| Parking Mode | 15 | | |
| 4. Video Playback and Management | 16 | | |
| Video Playback on Dashcam | 16 | | |
| Video Playback on VIOFO APP | 16 | | |
| Video Playback on PC | 16 | | |
| Video File Storage Location | 17 | | |

Standard Items



Dashcam
+ GPS Mount



Car Charger



Type-C
Data Cable



CPL-100



Trim Removal
Tool



Spare Mount
Sticky Pad



Windshield Static
Sticker x2

Optional Accessories (Sold Separately)



Bluetooth
Remote Control



MicroSD Card



HK4
Hardwire Cable



HK6
Hardwire Cable

• Note:

The USB data cable is only for connecting the camera with computer to transfer video files or upgrade firmware, not for charging the camera.

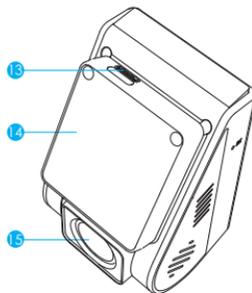
Product Diagram



1. Menu / Power On | Off
2. Menu Up / Recording Start | Stop
3. Menu Confirm / Video Protect / Playback
4. Menu Down / Microphone On | Off
5. Wi-Fi On | Off
6. Power In / Data Cable Port
7. Memory Card Slot



8. Reset Button
9. Power Status Indicator
10. Recording Status Indicator
11. Microphone Status Indicator
12. Wi-Fi Status Indicator



13. USB Power Port
14. Mount (GPS Module)
15. Lens

LED Indicators

| LED | LED Status | Behavior |
|-------|---------------|---------------------------------|
| PWR | Flashing Red | Updating Firmware |
| | Solid Red | Power On |
| | Off | Power Off |
| REC | Flashing Red | Not Recording |
| | Solid Red | Recording |
| MIC | Solid Blue | Audio Recording On |
| | Off | Audio Recording Off |
| Wi-Fi | Flashing Blue | Wi-Fi On and Waiting Connecting |
| | Solid Blue | Wi-Fi Connected |
| | Off | Wi-Fi Disabled |

Buttons and Icons

| Mode | Buttons | Behavior |
|----------------|---|---|
| Recording Mode |  | Long press to power off Click once to take a photo |
| |  | Click once to stop recording |
| |  | Click once to lock the file being recorded |
| |  | Click once to enable / disable audio recording |
| |  | Long press to enable / disable the Wi-Fi |

| Mode | Buttons | Behavior |
|---------------|---|---|
| Playlist Mode |  | Return to previous menu / Exit playlist |
| |  | Menu up / Change playback speed / Delete the video |
| |  | Select the current video / Play / Pause |
| |  | Menu down / Change playback speed / Lock current / Unlock current video |
| |  | N/A |

| Mode | Buttons | Behavior |
|------------------------------|---|---|
| Standby Mode (Not Recording) |  | Click once to enter menu |
| |  | Click once to start recording Long press to format the memory card |
| |  | Click once to enter playlist |
| |  | Click once to enable / disable audio recording |
| |  | Long press to enable / disable the Wi-Fi |

| Mode | Buttons | Behavior |
|-------------------|---|---|
| Setting Menu Mode |  | Exit setting menu / Return to previous menu |
| |  | Menu up |
| |  | Enter / Confirm setting options |
| |  | Menu down |
| |  | N/A |

Display Overview



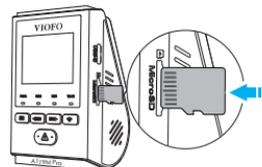
| | | | |
|--|---------------------|----------|-------------------|
| | Recording Mode | | Recording Status |
| | Emergency Lock | | Microphone Status |
| | Wi-Fi Status | 00:00:00 | Recording Time |
| | Parking Mode | 4KP30 | Video Resolution |
| | GPS Status | OKM/H | GPS Speed |
| | microSD Card Status | | |

Installation

Insert / Remove the Memory Card

■ Insert the memory card

Ensure the camera is turned off. Hold the memory card in the orientation shown, slide it into the card slot until you hear a click.



■ Remove the memory card

Ensure that the camera is turned off, 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 high endurance and the capacity is up to 512GB.
- 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.

■ Format the memory card

Memory card must be formatted before first use.

Format the memory card in the camera

To format the card in the camera, either use the format option in the Settings, or alternatively long press the [◀IREC] button.

Format the memory card using a computer

To format the memory card on your computer, follow your computer's user manual.

For deep formatting of the memory card, you can also download the GUIFormat tool from our official website:

<https://viofotech.com/download/guiformat.exe>

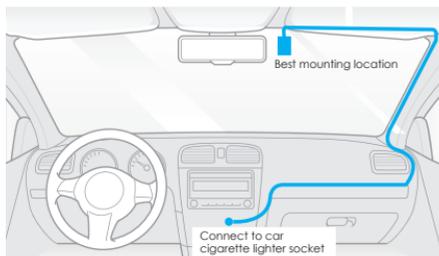
Note:

We suggest formatting the card periodically to ensure the best performance of the camera.

Formatting the card will erase all data permanently, please back up important data beforehand.

Install the Dashcam

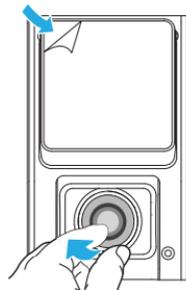
1. Select a location on the windshield behind the rear-view mirror where the camera will not obstruct the driver's view while driving.



2. Wipe clean the installation surface of the windshield with a dry cloth, it must be grease free for the sticky pad to stick firmly.

3. 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 pages 12).

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

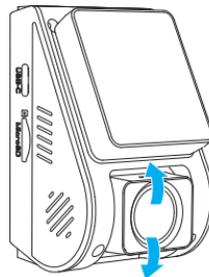


5. Fix the camera on the selected location.

6. Adjust the Lens Angle

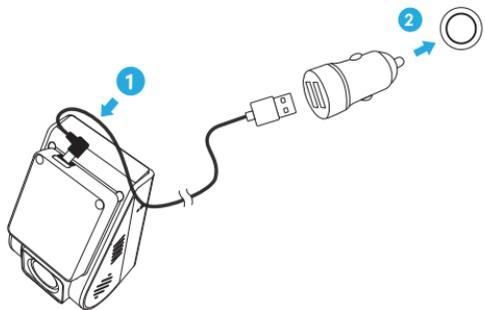
- Look at the live view on the LCD.

- Adjust the angle of the lens up / down if necessary.



7. Connect to Power

Insert the car charger USB cable's male port into the camera mount's USB Type-C port. Plug the USB power adapter into your vehicle's 12V / 24V female power socket.



Tips:

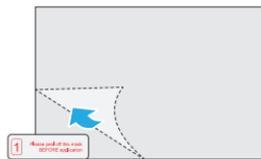
1. Do not install / mount the camera in a location that interferes with the driver's visibility and safety.
2. Install / mount the camera close to the rearview mirror so that both sides of the scene being recorded are equally covered by the camera's FOV (field of view).
3. To ensure a clear view on rainy days, the lens should be positioned within the windshield wiper's sweeping range.
4. Do not install / mount the camera on or near airbag panels.
5. 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 or cables near an airbag panel or within the airbag's working range. The manufacturer is not liable for any injury or death caused by deployment of the airbag.

Install the Static Sticker (Optional)

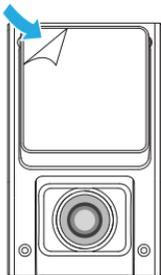
1. Wipe clean the surface of the windshield before installation.
2. Peel the red sign protective film off the static sticker, then attach the sticker to the windshield. Press it for a few seconds, making sure no bubbles are left.



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



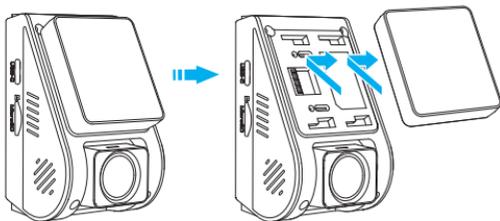
4. Peel the protection film off the sticky pad on the mount, and attach it to the sticker. Press the camera hard for a few seconds, making sure it is attached firmly.



Remove the Dashcam

Remove the Dashcam

To remove the camera from its bracket, slide the camera to the right and pull the camera out of the mounting bracket.



Note:

When you want to plug in and unplug the camera, please turn it off first.

Power On / Off

1. When you start the engine, the camera will turn on and begin recording automatically.
2. When you turn off the engine or unplug the charging cable from the power adapter, the camera will stop recording and turn off.
3. Long press [] button to power on or off the camera.

Loop Recording

1. Insert a microSD 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 microSD card, loop recording will automatically overwrite the oldest files (one by one).
4. Loop recording files are saved to SD card: \DCIM\Movie.

Emergency Recording

1. Automatic emergency recording
When the G-sensor is activated by a collision, the current footage will be locked automatically to avoid being overwritten by loop recording.
2. Manual emergency recording
Pressing the [] button during a recording will lock the current file being recorded. Once locked, the file will not be overwritten by the loop recording feature.

Note:

Collision detection sensitivity can be adjusted in settings under the "G-sensor" option. Locked files are saved to SD card: DCIM \ Movie \ RO

Disable / Enable Audio Recording

Press the [MIC▶] button once to turn off / on audio recording, [MIC▶] LED light will be off / solid Blue.

Parking Mode

There are three options for parking mode.

1. Auto Event Detection

The camera will automatically record a video sequence while a moving object is being detected during parking mode. It will stop recording when no new movement is detected.

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.

Note:

Timelapse 1 fps mode supports Night Vision option, which can provide brighter and clearer night vision in extreme low light conditions, with lower power consumption.

3. Low Bitrate Recording

This mode uses low bitrate to record video and audio, and uses small file sizes for continuous recording.

Note:

Parking mode provides surveillance of your parked

vehicle only when the engine is off and the USB Type-C Hardwire Cable is used to provide continuous power. The Hardwire Cable also protects your car battery from being drained. We recommend buying the VIOFO HK4 / HK6 ACC Hardwire Cable for parking mode recording.

Video Playback and Management

Video Playback on Dashcam

1. Under standby mode (not recording), click once [⚠] button to enter the playlist.
2. Use the arrow buttons [◀REC MIC▶] to select the desired video and press the button [⚠] to play.
3. Press the [≡] button to exit.

Video Playback on VIOFO APP

Long press the Wi-Fi button to enable Wi-Fi. Connect Wi-Fi on your phone first. Open VIOFO app and choose "Connect Camera" to use your phone to control the dashcam. You can play and manage files through the APP. You can check the app introduction refer to [Review and Control on Smartphone].

Video Playback on PC

1. Remove memory card from dashcam. Before removing the memory card, make sure you have switched off the dashcam.
2. Insert the memory card into a SD card adapter or card reader connected to your PC.

3. Open VIOFO Player, add videos from the DCIM folder for playback.



Download VIOFO Player from our official website:
<https://www.viofo.com/pages/viofo-app>

Note:

For your PC with a microSD slot, you can directly insert the memory card into it.

Video File Storage Location

| Recording Mode | Behavior |
|---|---------------------|
| Loop Recording | DCIM / Movie |
| Emergency Recording (Locked Video) | DCIM / Movie / RO |
| Parking Recording (Auto Event Detection / Time-lapse Recording / Low Bitrate Recording) | DCIM / Parking |
| Parking Recording (Locked Video) | DCIM / Parking / RO |
| Snapshot | DCIM / Photo |

Review and Control on Smartphone

Connect to Smartphone

The VIOFO app allows you to control your camera by using a smartphone within 10M range. Features include full camera control, live preview, playback and video recording.

■ Android Device

Android users can download the app from Google Play, or download the APK directly from our official website:
<https://viofo.com/en/content/13-app/>

■ IOS Device

IOS users can download the app from the App store.



Download on the
App Store



GET IT ON
Google Play

■ Connect VIOFO APP

Turn on the Wi-Fi in the menu or long press the [] button. When the Wi-Fi is on, a Wi-Fi status icon, Wi-Fi name (SSID) and the password appear on the camera LCD screen.

- **Step 1:** Use the phone to connect to the Wi-Fi. When the phone is connected with the dashcam, the LED light on the camera shows solid blue.
- **Step 2:** Open the VIOFO app. Tap "Connect New Device" and select the dashcam model you want to connect to your phone for control.
- **Step 3:** Now you can see the live view of the camera. You can change the settings and check the files on the app.

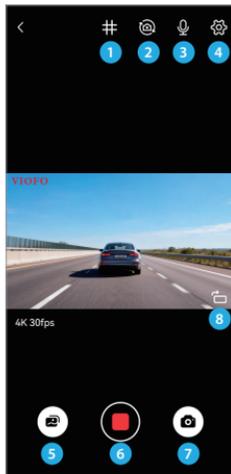
APP Layout Overview

Tap "Connect New Device" to pair the dashcam to your phone for control.



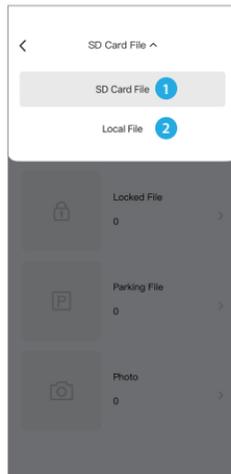
Home

- ① Device Connection & Setup
- ② Gallery
- ③ App Information & Settings



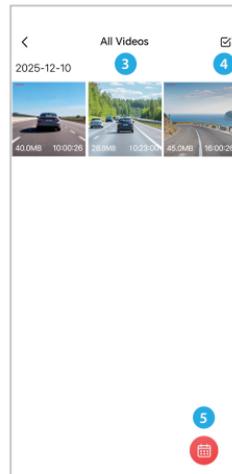
Live View

- ① Grid (On/Off)
- ② Switch Camera View
- ③ Voice Recording On/Off
- ④ App & Device Settings
- ⑤ View Gallery
- ⑥ Start/Stop Recording
- ⑦ Snap a Photo
- ⑧ Toggle Landscape View



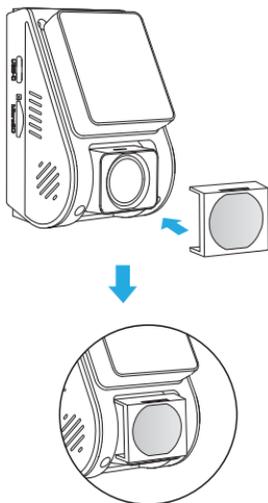
Gallery

- ① SD Card File (On Camera)
- ② Local File (On Phone)
- ③ All Video Clips
- ④ File Selection
- ⑤ Date Filter



Install CPL

The CPL (Circular Polarizing Lens) can be used to reduce reflections and glare from the window glass and road surfaces that can otherwise damage image quality, this works in the same way as polarized sunglasses, getting more saturated and beautiful video.



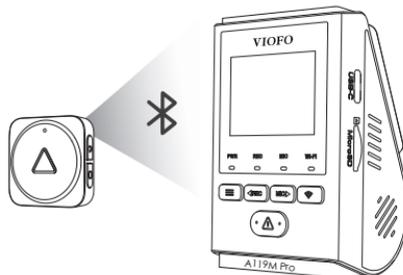
When installing the CPL, you can randomly choose one slot and keep it upward, and then put the CPL on the lens.

Install Bluetooth Remote Control (Optional)

The Bluetooth Remote Control (optional), featuring three buttons and conveniently mounting on your dashboard, allows you to safely lock important videos, turn on/off Wi-Fi, enable/disable HDR, and perform additional functions, all without diverting your attention from the road.

Pairing with dash camera

- Power on the camera.
- Press and hold the video lock button on remote control for 3 seconds to pair with camera.
- If get paired successfully, the LED indicator of the remote control turns blue.



You can set the dashcam settings according to your needs and preferences using the camera or the VIOFO app. To enter the settings menu, please stop recording first.

- **Resolution:**

- 4K 30fps
- 4K 21:9 30fps
- 2K 30fps
- 1080P 30fps

Note: The 4K resolution refers to 3840x2160P, and the 2K resolution refers to 2560x1440P. The 4K 21:9 resolution refers to 3840x1600P. The 1080P resolution refers to 1920x1080P.

- **Bitrate:** Low / Medium / High.

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 longer time.

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

Recording will begin automatically after powering on with a microSD card in the device. Each recorded file is one minute long as a default and the old footage will be replaced when the microSD card storage is full.

- **Exposure Value:** Adjusting the value of the EV (Exposure Value) properly can create better footage under different light sources. It ranges from -2.0 to +2.0. The default is set at 0.0.

- **HDR (High Dynamic Range):** Off / On / HDR Timer. The default setting is Off. The multi-exposure HDR technique helps automatically balance the lighting in over bright and over dark areas to avoid over exposure issues.

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

- ① Auto Event Detection

The camera will automatically record a video sequence while a moving object is detected during parking. It will stop recording without 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.

Timelapse 1 fps mode supports Night Vision option, which can provide brighter and clearer night vision in extreme low light conditions, with lower power consumption.

- ③ Low Bitrate Recording

This mode uses low bitrate to record video and audio, and uses small file sizes for continuous recording.

Note:

1. We recommend buying VIOFO HK4 / HK6 ACC hardwire cable for parking mode recording.
2. When using the HK6 hardwire cable, the recorded video stamp can display the real-time voltage of the vehicle battery.
3. 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.
"Off" means the camera will enter parking mode right away when the engine is off.
"90S" means the camera will enter parking mode 90 seconds after engine is off.
- **Parking Recording Duration:**
"Off" means the camera will keep recording until the hardwire cable 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:** Adjust the sensitivity of the motion detection so minor motion caused by wind or rain doesn't trigger a recording. We suggest setting it to Low Sensitivity in parking mode recording.
- **Time-lapse Recording:** Off / 100ms / 200ms / 500ms / 1 Second / 2 Seconds / 5 Seconds / 10 Seconds / 30 Seconds / 1 Minute / 5 Minutes / 10 Minutes.
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.
- **GPS:** Turn On / Off GPS logger.
A GPS module is used to include the location data in the recorded videos. If disabled, your camera will no longer measure your speed and position; nor synchronize the time / date. (Only available when connecting with GPS signal.) Please use "VIOFO Player" to play back videos and to visualize your position and speed on your computer.
- **Parking GPS:** Turn On / Off GPS logger in parking mode.
- **Speed Units:** Kilometer per hour (KMH) and miles per hour (MPH) are available for speed units.
- **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".
- **Wi-Fi:** 2.4 GHz / 5 GHz / 5.8 GHz
Set it On / Off. Press the [] button for 3 or 5 seconds to enable Wi-Fi quickly. We recommend choosing 5GHz Wi-Fi mode.
- **Privacy Mode:**
Turn On / Off privacy mode. When the privacy mode is on, the dashcam only saves the latest 2 normally recorded video files. When privacy mode is enabled, each loop recording is limited to 1 minute.
- **Bluetooth Button Function:**
Set the customized button functions for Bluetooth remote control. The Mic Button and Action Button can be set to control certain functions of the dashcam, including:
Turn On / Off Microphone Switch to Timelapse Recording
Take a Photo Turn On / Off HDR
Turn On / Off Wi-Fi Parking Mode
Power Off
- **Date Stamp:** Imprint the time and date on the recorded video.
- **GPS Info Stamp:** Imprint the GPS information on the recorded video.
- **Camera Model Stamp:** Imprint the camera model on the recorded video.

- **Vehicle Voltage Value:** Turn On/Off the vehicle's real-time voltage value imprinted on the recorded video.
- **Record Audio:** Turn the microphone On / Off. This can be also activated by pressing the [MIC▶] button while the camera is recording.
- **Screen Saver:** Turn the screen Off after a set time.
- **Boot Delay:** The camera will boot seconds later when powered on. The settings are Off / 5 Seconds / 10 Seconds.
- **LED:** Turn the LED light On / Off.
- **Date / Time:** System date / time setting.
- **Time Zone:** Set 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.).
- **Volume:** Low / Medium / High.
Adjust the volume of the voice notification.
- **Voice Notification:** Turn On / Off the voice notification.
- **Voice Control:** Turn On / Off the voice control.
When Voice Control is turned on, you can control the camera with spoken commands, using your voice to take photos, turn on/off Wi-Fi, start recording, and more.

Note:
Voice command language should be consistent with dashcam system language in following six options:

English, Chinese, Russian, Japanese, Vietnamese, and Thai. For all other dashcam language systems, English is the only language to trigger voice control function.

- **Voice Command:** Voice recognition commands. You can issue different voice commands to control the camera, including:

| | |
|------------------|-------------------|
| - Take Photo | - Turn On Screen |
| - Video Start | - Turn Off Screen |
| - Turn On Audio | - Lock the Video |
| - Turn Off Audio | - Turn On Wi-Fi |
| | - Turn Off Wi-Fi |
- **Beep Sound:** Off / Button Beep Only / Startup Sound Only / All On.
You can enable / disable the button and startup sounds.
- **Frequency:** Frequency adjustment setting to minimize flickering and banding in recorded video.
- **Image Rotation:** Turn the screen upside down.
- **Image Mirror:** Reverse the image from left to right.
- **Format:** The operation will delete all data on the microSD card.

Note:

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

- **Format Warning:** Set the number of days between format warnings.
- **Default Setting:** Restore camera to factory defaults.

- **Car Number:** Imprint a customized set of 11 digits to the recorded video. Useful to add license plates or identifying features.
- **Custom Text Stamp:** Imprint the customize text on the recorded video.
- **Firmware Version:** Current firmware version check.

Firmware Upgrade

Follow the instructions at viofo.com to upgrade the firmware.

Note:

- Before using a microSD card to upgrade the firmware, formatting the card in the 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 subsequently fail to boot.

Notice

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Caution:

Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules.

Operation subjects to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Shenzhen VIOFO Technology Co., Ltd. declares that this Radio Frequency peripheral is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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 the 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

 +1 323 505 9898 (USA)
+1 323 609 9898 (Global)

 Mon-Fri 9am-6pm



Scan the QR code to submit a ticket