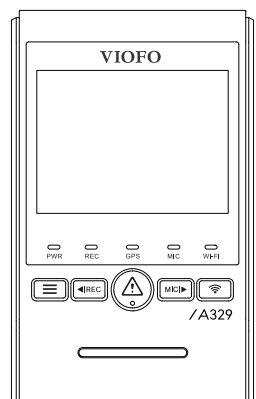
VIOFO

A329S Series

USER MANUAL

Scan to Access User Guide Videos

Scan to Access User Manual



V25.05.08

Table of Contents

Product Overview

Standard Items


Front Camera +GPS Mount


Type-C Data Cable


Car Charger


CPL-200 for Front Camera

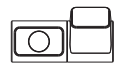

Spare Front Mount Sticky Pad


Trim Removal Tool


Windshield Static Stickers

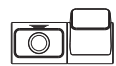
Note:
The Type-C Data Cable is only used to connect the camera or SSD to external devices such as computers and smartphones for data transfer. It can not be used to charge the camera.

Optional Accessories


RC420 Rear Camera

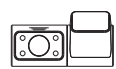

Rear Camera Cable (1M/6M/8M/10M)


CPL-600 for Rear Camera


RTC420 Telephoto Camera


Telephoto Camera Cable (1M)


CPL-600 for Telephoto Camera


RCC360 Fisheye Cabin Camera


Fisheye Cabin Camera Cable (1M)


Bluetooth Remote Control


RWC400 Waterproof Rear Camera


Waterproof Rear Camera Cable (2.5M/7.5M/9.5M/14.5M)

MicroSD Card

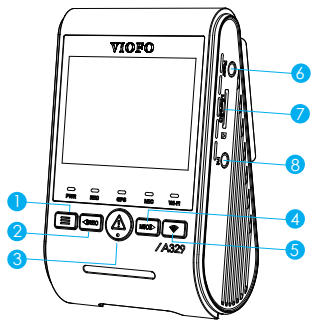

HK4 Hardwire Kit


HK6 Hardwire Kit

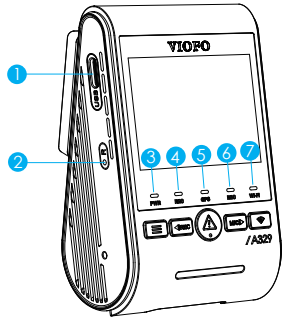

Type-C SSD Cable (1.8M/2.5M)

Product Diagram

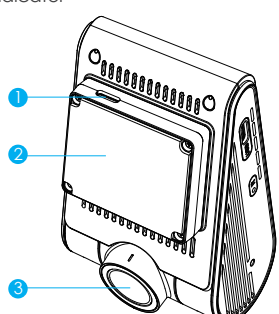
■ **Front Camera (Main Unit)**



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 - Rear Camera Port / Waterproof Rear Camera Port
7 - Memory Card Slot
8 - Infrared Fisheye Cabin Camera Port / Telephoto Camera Port / Waterproof Rear Camera Port

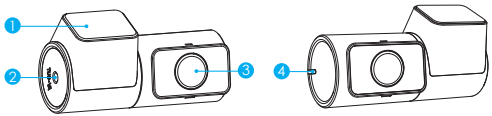


1 - Power In (not support parking mode via a hardwire kit) / Data Cable Port / SSD Connection Port
2 - Reboot Button
3 - Power Status Indicator
4 - Recording Status Indicator
5 - GPS Status Indicator
6 - Microphone Status Indicator
7 - Wi-Fi Status Indicator



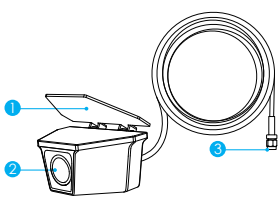
1 - USB Power Port
2 - Mount (GPS Module)
3 - Lens

■ **Rear Camera (Optional)**



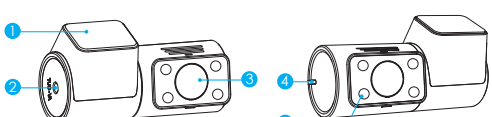
1. Bracket 2. Power In 3. Lens 4. LED Indicator

■ **Waterproof Rear Camera (Optional)**



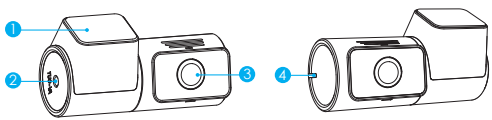
1. Bracket
2. Lens
3. Power In

■ **Infrared Fisheye Cabin Camera (Optional)**



1. Bracket 2. Power In 3. Lens 4. LED Indicator
5. Infrared LED

■ **Telephoto Camera (Optional)**



1. Bracket 2. Power In 3. Lens 4. LED Indicator

LED Indicators

LED	Led Status	Behavior
PWR	Flashing Red	Updating Firmware
	Solid Red	Power On
	Off	Power Off
REC	Solid Red	Recording
	Flashing Red	Not Recording
GPS	Flashing Blue	GPS Signal Receiving
	Solid Blue	GPS Signal Received
	Off	GPS Disabled
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

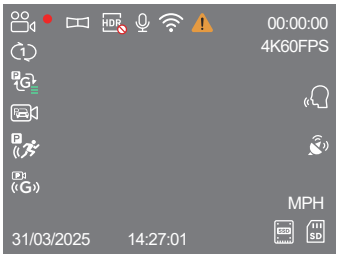
Mode	Buttons	Behavior
Recording Mode	☰	Long press to power off Click once to take photo
	◀‖REC	Click once to stop recording
	⚠	Click once to lock the file being recorded
	MIC ‖▶	Click once to enable / disable audio recording Long press to enable / disable parking mode
	📶	Long press to enable / disable Wi-Fi Click once to change live video source

Mode	Buttons	Behavior
Playlist Mode	☰	Return to previous menu / Exit playlist
	◀‖REC	Menu up / Change playback speed / Delete the video
	⚠	Select the current video / Play / Pause
	MIC ‖▶	Menu down / Change playback speed / Lock current / Unlock current video
	📶	N/A

Mode	Buttons	Behavior
Standby Mode (Not Recording)	☰	Click once to enter menu
	◀‖REC	Click once to start recording Long press to format the card
	⚠	Long press to enter playlist
	MIC ‖▶	Click once to enable / disable audio recording Long press to enable / disable parking mode
	📶	Long press to enable / disable Wi-Fi Click once to change live video source

Mode	Buttons	Behavior
Setting Menu Mode	☰	Exit setting menu / Return to previous menu
	◀‖REC	Menu up
	⚠	Enter / Confirm setting options
	MIC ‖▶	Menu down
	📶	N/A

Display Overview



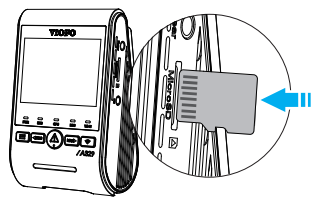
	Recording Mode		Emergency Lock
	Recording Status	00:00:00	Recording Time
	Loop Recording Status	4K60FPS	Video Resolution
	Parking G-sensor Status		GPS Status
	Parking Mode		Voice Control
	Auto Event Detection	MPH	GPS Speed
	HDR Status		SSD Status
	Microphone Status		microSD Card Status
	Wi-Fi Status		Multiplex Video Status
	Low Power Impact Detection		

Installation

Insert / Remove the Memory Card

■ Insert the memory card

Hold the memory card in the orientation shown, slide it into the card slot until you hear a click.



■ Remove the memory card

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 exFAT or FAT32 file system.

■ 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 VIOFO App and the format option in the Settings, or alternatively long press the [◀IREC] button.

Format the memory card using a computer

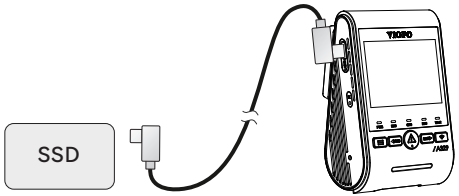
To format the memory card on your computer, follow your computer's user manual.
For deep formatting of the memory card, you can also download the GUIFormat tool from our official website:
https://viofotech.com/download/guiformat.exe

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.

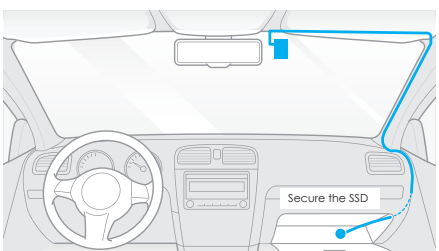
Install the SSD (Optional)

■ Install the SSD

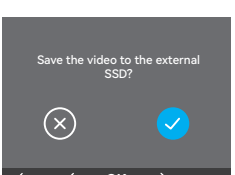
1. Connect the SSD to the dashcam using the VIOFO Type-C SSD cable.



2. Secure the SSD at a suitable location inside the car, making sure it doesn't obstruct the driver's view.



3. You can choose to save the recorded videos to the SSD immediately, or set the file storage location later in the dashcam settings.

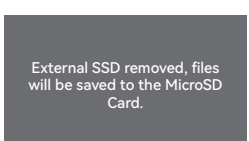


Note:

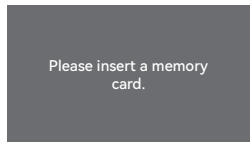
- We recommend using PSSD (Portable SSD).
- The SSD must be formatted before first use. Please format it on a computer or in the dashcam to the exFAT file system.
- Please note that the dashcam can only store data on either the SSD or the microSD card, not both simultaneously. Please choose one file storage location for use.
- Do not place the SSD in high-temperature environment. We recommend installing the SSD in the car's glove compartment.
- The recommended temperature for using the SSD with your dashcam is 0-60°C.
- Data Loss Disclaimer: VIOFO is not responsible for any data loss due to improper use, power failures, or environmental factors. Please back up important files regularly.

■ Remove the SSD

Unplug the SSD cable from the dashcam.
If the dashcam already has a memory card inserted, the recorded files will be automatically saved to the memory card.

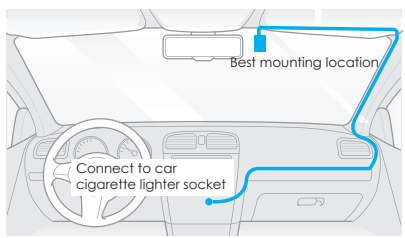


If there is no memory card inserted, it will prompt you to insert a memory card.



Install the Front Camera

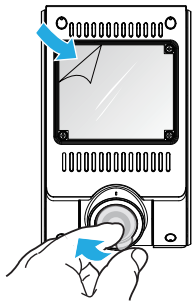
1. Select a location on the windshield behind the rear-view mirror where the camera will not obstruct the driver's view while driving.



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

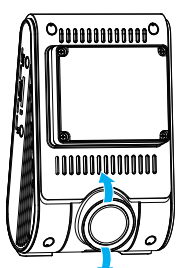
3. Mount the dashcam directly to the windshield with the sticky pad, or attach the static sticker to the selected location before installation (Refer to guide on page 16).

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

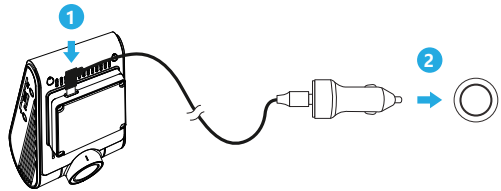


5. Fix the camera on the selected location.

6. Adjust the Lens Angle
   - Look at the live view on the LCD.
   - Adjust the angle of the lens up / down if necessary.



7. Connecting to Power



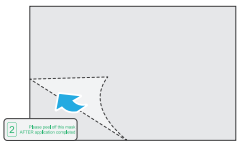
Insert the car charger USB cable's male port into the camera mount's Type-C port. Plug the car charger adapter into your vehicle's 12V / 24V female power socket.

Install the Static Sticker (Optional)

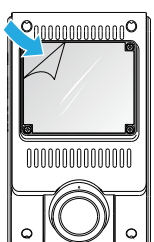
1. Wipe clean the surface of the windscreen before installation.

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.

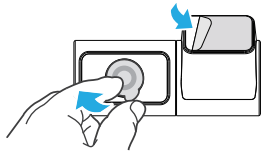


Install the Rear Camera (Optional)

1. Select an installation location on the rear windscreen, without defrost grid wires, and where the camera can record the entire rear view.

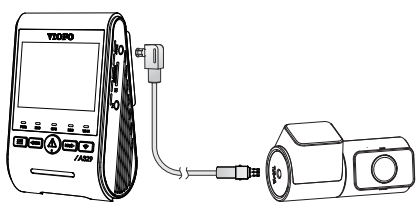
2. Wipe clean the installation surface of the windscreen with a dry cloth.

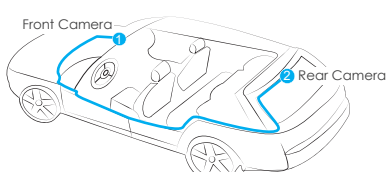
3. Peel the protection film off the sticky pad and camera lens.



4. Fix the rear camera on the selected location.

5. Connecting with Rear Camera
Power off the product and connect the rear camera cable to the front camera (main unit).
Cable routing should be as shown in the following two diagrams.





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.

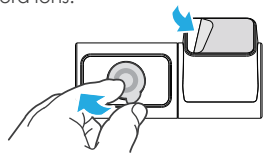
Note:
Do not install / mount the camera or cables near an airbag panel or within the airbag's working range. The manufacturer is not liable for any injury or death caused by deployment of the airbag.

Install the Infrared Fisheye Cabin Camera (Optional)

1. Select a location on the front windscreen where the camera can record the entire interior view.

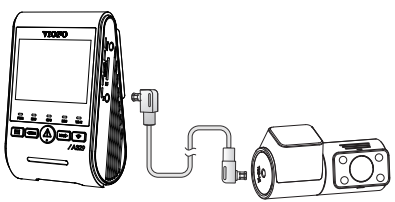
2. Wipe clean the installation surface with a dry cloth.

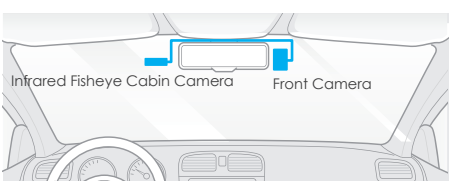
3. Peel the protection film off the sticky pad and camera lens.



4. Fix the infrared fisheye cabin camera on the selected location.

5. Connecting the infrared fisheye cabin camera. Power off the front camera (main unit), and connect the infrared fisheye cabin camera to the front camera using infrared fisheye cabin camera cable. Cable routing should be as shown in the following two diagrams.



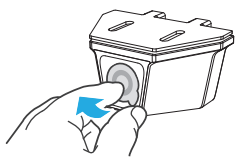


Install the Waterproof Rear Camera (Optional)

1. Select an installation location on the exterior rear of the vehicle.

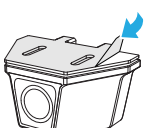
2. Wipe clean the installation surface with a dry cloth.

3. Peel the protection film off the camera lens.

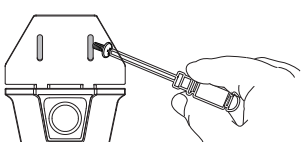


4. Secure the camera using 3M adhesive sticker (peel the protection film off first) or screws provided.

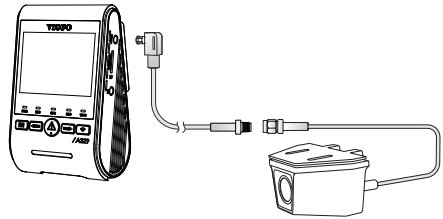
Option 1



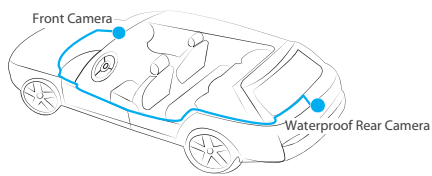
Option 2



5. Connecting waterproof rear camera.
Power off the front camera (main unit), and connect the waterproof rear camera to the front camera using waterproof rear camera cable.
Cable routing should be as shown in the following two diagrams.



Note:
The waterproof rear camera cable is compatible with both the Rear and Int. ports.

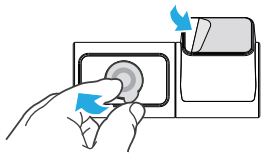


Install the Telephoto Camera (Optional)

1. Select a location on the windshield under the rear-view mirror.

2. Wipe clean the installation surface of the windscreen with a dry cloth.

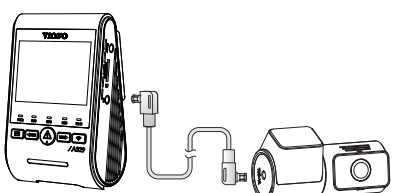
3. Peel the protection film off the sticky pad and camera lens.

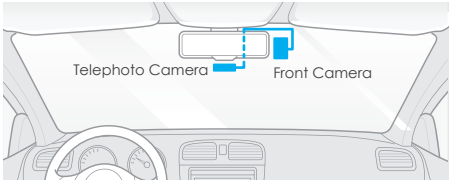


4. Fix the telephoto camera on the selected location.

5. Connecting the telephoto camera.
Power off the front camera (main unit), and connect the telephoto camera to the front camera using telephoto camera cable.
Cable routing should be as shown in the following two diagrams.

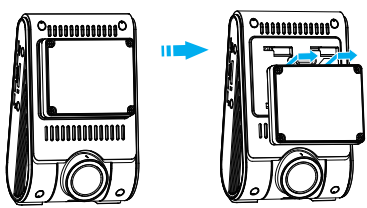
Note:
The telephoto camera must be connected to the Int. port using the 1M telephoto camera cable only.





Remove Cameras

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



Dash Cam Recording Operation

Initial Setup

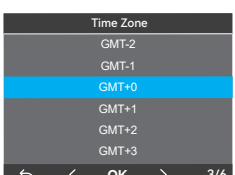
Upon the first activation of the dashcam, please perform the initial setup by setting the language, time zone and speed unit.

① Language Setting

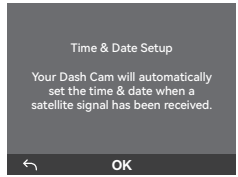
When prompted with the initial setup dialog to set a language, press the menu up [◀IREC] and menu down [MIC▶] buttons to select the language, and press the OK [⚠] button to confirm.

② Time Zone Setting

Press the menu up [◀IREC] and menu down [MIC▶] buttons to select the time zone, and press the OK [⚠] button to confirm. You can also press the [☰] button to return to the previous level to modify settings.

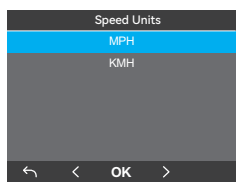


③ Confirm Auto Time and Date Setup Press the OK [⚠] button to confirm.



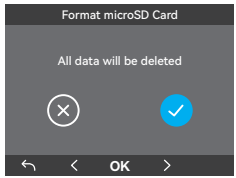
④ Speed Unit Setting

Press the menu up [◀IREC] and menu down [MIC▶] buttons to select the speed unit, and press the OK [⚠] button to confirm.



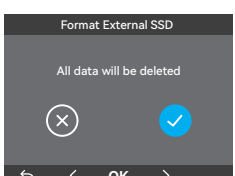
⑤ Format microSD Card

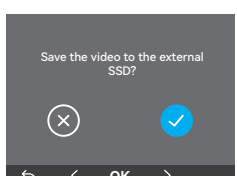
Memory card must be formatted before first use. Select the [✓] and press the OK [⚠] button to confirm formatting the memory card. After successful formatting, the camera will automatically restart and power on.



Note:
• The above settings can be modified anytime from the settings menu.
• After restoring device to factory settings, the initial setup interface will also be triggered upon startup.

⑥ Format External SSD
If your dashcam has an external SSD connected, you can choose whether to format the SSD and whether to save videos to the SSD. We recommend formatting the SSD before first use.





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. Short press [☰] button to power on the camera.
   Long press [☰] button to power 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 car, loop recording will automatically overwrite the oldest files (one by one).

4. Loop recording files are saved to microSD 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 microSD card: DCIM \ Movie \ RO

Disable / Enable Audio Recording

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

Parking Mode

There are 5 parking modes:

1. Hybrid Parking Recording

A combination of 2 parking modes. Record in an available mode of Time-lapse 1fps -> Impact / Low Bitrate -> Impact / Event Detection -> Impact. The hybrid mode begins with time-lapse 1fps, low bitrate,

or event detection, and switches to impact detection based on the cut-off time or voltage.

e.g. When the cut-off time is set to 30 minutes and the hybrid parking mode is Time-lapse 1fps -> Impact, the camera records in time-lapse 1fps mode for 30 minutes, then switches to impact detection mode and records until the hardwire kit cuts power.

Note:
1. The mode is only enabled after setting either the "Cut-off Time" or "Cut-off Voltage".
2. In this mode, parking files are stored only on the MicroSD card.
3. Cut-off Voltage is only available with the VIOFO HK6 ACC hardwire kit.

2. Low Power Impact Detection

In this mode, the camera stays in low-power standby. When an impact is detected, it will automatically start recording about 2 seconds for 1 minute. If movement is detected during that time, the recording will be extended for up to 3 minutes.

Note:
1. In this mode, parking files are stored only on the MicroSD card.
2. This mode is only available when powered by VIOFO hardwire kit.

3. Time Lapse Recording

Time lapse records 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 Super Night Vision option, which can provide brighter and clearer night vision in extreme low light conditions, with lower power consumption.

4. Low Bitrate Recording

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

5. 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.

Note:
Parking mode provides surveillance of your parked vehicle only when the engine is off and the USB Type-C Hardwire Kit is used to provide continuous power. The Hardwire Kit also protects your car battery from being drained. We recommend buying the VIOFO HK4 / HK6 ACC hardwire kit cable for parking mode recording. Cut-off Voltage is only available with the VIOFO HK6 ACC hardwire kit.

Video Playback and Management

Video Playback on Dashcam

1. Under standby mode (not recording), long press [⚠] 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**]on page 35.

Video Playback on VIOFO Player

■ Via Memory Card

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 microSD 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.

■ Via External SSD

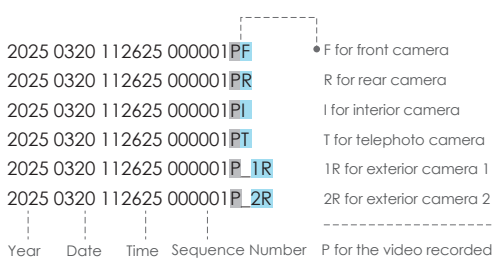
1. Remove the external SSD from dashcam.
2. Connect the SSD to your PC using the Type-C Data Cable.
3. Open VIOFO Player, add videos from the DCIM folder for playback.

Video File Storage Location

Recording Mode	Behavior
Multiplex Video Loop Recording	DCIM \ Movie
Emergency Recording (Locked Video)	DCIM \ Movie\ RO
Parking Recording	DCIM \ Movie \ Parking
Snapshot	DCIM \ Photo

■ File Format Definition

Files recorded by front camera and rear camera are saved separately.



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.

■ Download VIOFO APP

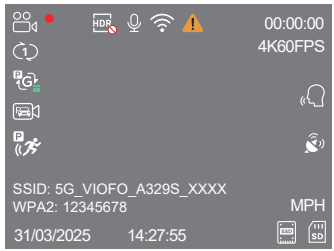
IOS users can download the app from the App store. Android users can download the app from Google Play.
Scan the QR code to download the app.

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, Wi-Fi name (SSID) and the password appear on the camera LCD screen.



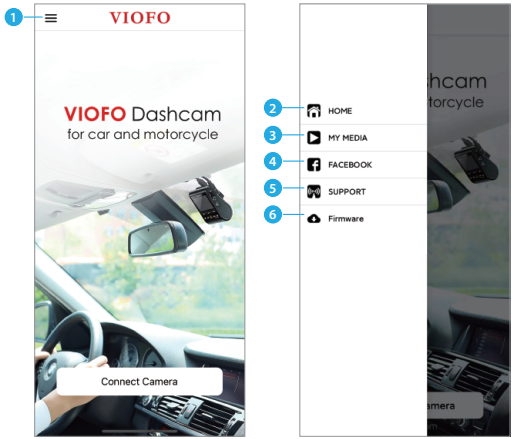
• **Step 1:** Use the phone to connect the Wi-Fi. When the phone is connected with the dashcam, the LED light on the camera shows solid blue.

• **Step 2:** Open VIOFO app and choose "Connect Camera" to use your phone to control the dashcam.

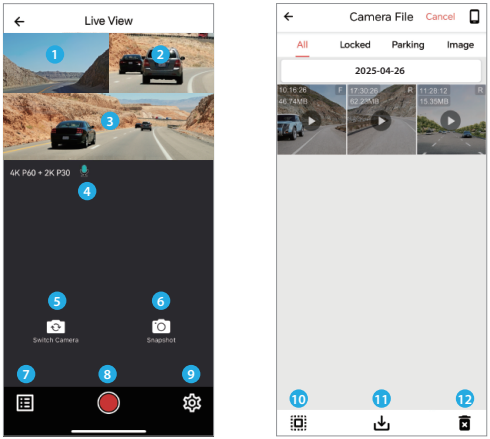
• **Step 3:** Now you can see the live view of both cameras. You can change the settings and check the files on the app.

APP Layout Overview

Choosing "Connect camera" to use your phone to control the dashcam.



1 - Menu
2 - Home Page
3 - Downloaded Video
4 - VIOFO Official Facebook Page
5 - Official Support
6 - Firmware Update



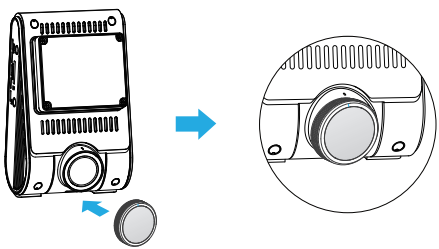
Preview Video

1 - Rear Camera Live Video / Waterproof Rear Camera Live Video
2 - Infrared Fisheye Cabin Camera Live Video / Telephoto Camera Live Video
3 - Front Camera Live Video
4 - Audio Recording Status
5 - Switch Camera Video Source
6 - Take a Video Snapshot
7 - Go to Video File Lists
8 - Start / Stop Recording
9 - Go to Dashcam Settings
10 - Select All / Deselect All
11 - Download Video Files
12 - Delete Video Files

Install Accessories

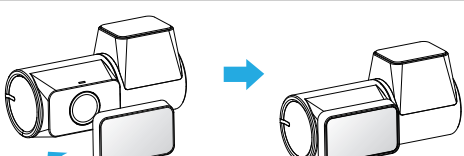
Install CPL on Front Camera

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.

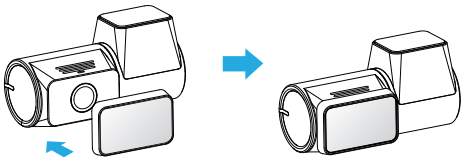


When installing the CPL, you need to align the white mark on the CPL with the corresponding mark on the camera.

Install CPL on Rear Camera (Optional)



Install CPL on Telephoto Camera (Optional)

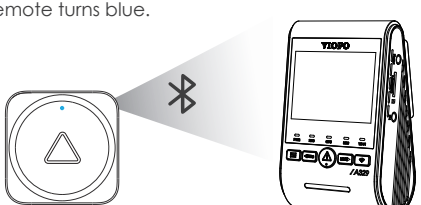


Install Bluetooth Remote Control (Optional)

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 turns blue.



Dashcam Settings

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.

Video Settings

- **Resolution:**

1 Channel:
4K 60fps
4K 21:9 60fps
4K 30fps
4K 21:9 30fps
2K 60fps
2K 30fps

2 Channels:
4K P60 + 2K P30
4KP60 21:9 + 2K 21:9
4K P30 + 2K P30
4KP30 21:9 + 2K 21:9
2K P60 + 2K P30
2K P30 + 2K P30
1080 P30+ 1080 P30

3 Channels:
4K P30 + 2K P30 + 2K P30
4K 21:9 + 2K 21:9 + 2K 21:9
2K P30 + 2K P30 + 2K P30
1080P30 + 1080P30 + 1080P30

Note:
1. The 4K resolution refers to 3840x2160P, and the 2K resolution refers to 2560x1440P. The 4K 21:9 refers to 3840x1600P, and the 2K 21:9 refers to 2560x1080P.
2. 4K 60fps is available only when HDR is disabled.

- **HDR**
  Off / On / Auto HDR Timer. You can set HDR for all cameras separately. The default setting is On. The multi-exposure HDR technique helps automatically balance the lighting in over bright and over dark areas to avoid over exposure issues.

Note:
When the front camera HDR is set to 'Auto', the other camera HDR will then display 'Auto' option. The HDR Timer follows the front camera's and cannot be adjusted individually.

- **Video Bitrate:** Low / Normal / High / Maximum.
  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 low bitrate will save space and record for longer time.

- **Loop Recording:** 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 microSD card storage is full.

- **Record Audio:**
  Turn on and off the microphone. This can also be changed during recording by pressing the microphone button [MIC▌▶].

- **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. You can adjust the EV for all cameras separately. The default is set at 0.0.

- **G-Sensor:**
  The G-sensor measures shock forces and locks the video recorded at the time. The settings from "low to high" determine the amount of force needed to lock the file from being overwritten. We recommend that you set it at low.

- **Stamp:**
  Choose to imprint the information on the recorded video.
  Date Stamp / GPS Speed Stamp / GPS Coordinates Stamp / Custom Stamp / License Plate Stamp / Logo Stamp / Brand Model Stamp / Resolution Stamp / Stamp Text Color.

Note:
You can change the stamp text color in the video file to white/yellow/cyan/golden.

- **Time-lapse Recording:** Off / 1 / 2 / 3 / 5 / 10 fps.
  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.

- **Interior Camera:**
  Off / On / Only On while Driving / Only On while Parking.
  You can enable / disable the fisheye cabin camera under driving or parking mode.

Note:
This setting is only available on the fisheye cabin camera edition.

- **IR LED:** Off / On / Auto.
  "On" means IR lights are always on, so the video color is black and white. "Auto" means the dash cam will decide to turn on/off infrared lights with different light condition.
  "Off" means the IR lights are all turned off.

Note:
This setting is only available on the fisheye cabin camera edition.

- **Parking Recording**

Vehicle Battery Protection:
Cut-off Time: Off / 30 Minutes / 1 Hour / 2 Hours / 3 Hours / 4 Hours / 6 Hours / 8 Hours / 12 Hours / 24 Hours / 48 Hours

Set the time at which the hardwire kits cut power.
"Off" means the camera will keep recording until the hardwire kits cut the power supply.
"30 Minutes" means the camera will shut down after it gets into parking mode for 30 minutes.

Note:
In hybrid parking recording mode, the cut-off time means the time at which the camera switches to impact detection mode.

Cut-off Voltage:
12.4 V/24.8 V; 12.2 V/ 24.4 V; 12.0 V/ 24.0 V
Set the voltage at which the hardwire kits cut power for 12V or 24V vehicles.

Note:
1. In hybrid parking recording mode, the cut-off voltage means the voltage at which the camera switches to impact detection mode.
2. To enable this function, you need to use VIOFO HK6 hardwire kit.

Parking Mode:
There are 5 parking modes:
① Hybrid Parking Recording
A combination of 2 parking modes. Record in an available mode of Time-lapse 1fps -> Impact / Low Bitrate -> Impact / Event Detection -> Impact. The hybrid mode begins with time-lapse 1fps, low bitrate, or event detection, and switches to impact detection based on the cut-off time or voltage.

e.g. When the cut-off time is set to 30 minutes and the hybrid parking mode is Time-lapse 1fps -> Impact, the camera records in time-lapse 1fps mode for 30 minutes, then switches to impact detection mode and records until the hardwire kit cuts power.

Note:
1. The mode is only enabled after setting either the "Cut-off Time" or "Cut-off Voltage".
2. In this mode, parking files are stored only on the MicroSD card.
3. Cut-off Voltage is only available with the VIOFO HK6 ACC hardwire kit.

② Low Power Impact Detection
In this mode, the camera stays in low-power standby. When an impact is detected, it will automatically start recording about 2 seconds for 1 minute. If movement is detected during that time, the recording will be extended for up to 3 minutes.

Note:
1. In this mode, parking files are stored only on the MicroSD card.
2. This mode is only available when powered by VIOFO hardwire kit.

③ Time Lapse Recording
Time lapse records a video at low frames at 1 / 2 / 3 / 5 / 10 fps, it keeps recording continuously without audio recorded.
Timelapse 1 fps mode supports SNV (Super Night Vision) option, which can provide brighter and clearer night vision in extreme low light conditions, with lower power consumption.

④ Low Bitrate Recording
This mode uses low bitrate to record video and audio, and uses small file sizes for continuous recording.

⑤ 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.

Note:
1. We recommend that you buy VIOFO HK4 / HK6 ACC hardwire kit cable for parking mode recording.
2. Cut-off Voltage is only available with the VIOFO HK6 ACC hardwire kit.
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. (Only for hardwire cable, if you use external battery, this function will not work.)
"Off" means the camera will enter parking mode right away when the engine is off.
"90 Seconds" means the camera will enter parking mode 90 seconds after the engine is off.

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. We suggest setting it to Low Sensitivity in parking mode recording.

Parking GPS:
Turn on / off GPS logger in parking mode.

Parking HDR:
Turn on / off HDR in parking mode.

Parking Files Storage: MicroSD Card / External SSD
You can save the parking recording files to MicroSD Card or External SSD.

Parking Recording Settings
(Video Settings>Parking Recording)

Parking Recording Settings		Details
Vehicle Battery Protection		After entering parking mode, the Vehicle Battery Protection can optimise the use of battery power to achieve longer periods of protection before the hardwire kit Low Voltage Protection is activated. If both the Cut-off Time and Voltage are set to Off, the parking recording will continue to operate normally until the hardwire kit cuts off the power.
	Cut-off Time	Normal Parking Mode: After the set time, the dashcam will stop recording and power off until the vehicle is restarted. Hybrid Parking Mode: After the set time, the dashcam will automatically switch to Low Power Impact Detection Mode. This can provide a much longer period of dashcam protection.
	Cut-off Voltage (Requires HK6 hardwire kit)	Normal Parking Mode: If the vehicle's battery voltage drops below the set value, the dashcam will stop recording and power off until the vehicle is restarted. Hybrid Parking Mode: If the vehicle's battery voltage drops below the set value, the dashcam will automatically switch to Low Power Impact Detection Mode, and continue recording until the hardwire kit Low Voltage Protection is activated.

Parking Recording Settings
(Video Settings>Parking Recording)

Parking Recording Settings			Details
Parking Mode	Hybrid Parking Recording		A combination of 2 parking modes.
		Event Detection & Impact	The dashcam records in Auto Event Detection Mode, if the set time or voltage cut is reached, it will automatically switch to Low Power Impact Detection Mode.
		Timelapse 1fps & Impact	The dashcam records in Timelapse 1fps Mode, if the set time or voltage cut is reached, it will automatically switch to Low Power Impact Detection Mode.
		Low Bitrate & Impact	The dashcam records in Low Bitrate Recording Mode, if the set time or voltage cut is reached, it will automatically switch to Low Power Impact Detection Mode.
	Low Power Impact Detection		In Low Power Impact Detection Mode, the dashcam stays in very low-power standby. When an impact is detected, it will automatically wake up in about 2 seconds and start recording video for 1 minute. If movement or impact are detected during that time, the recording will be extended for up to 3 minutes.
	Auto Event Detection		In Auto Event Detection Mode, the dashcam will automatically starts recording when a moving object is detected, and will save the video for 15 seconds before and 30 seconds after the detected event.

Parking Recording Settings
(Video Settings>Parking Recording)

Parking Recording Settings		Details
Parking Mode	Timelapse	In Timelapse Mode, the dashcam records a video without audio at low frames at 1 / 2 / 3 / 5 / 10 fps.
	Low Bitrate Recording	In Low Bitrate Recording Mode, the dashcam records video and audio continuously, maximising the amount of video that can be stored on the storage device.
Enter Parking Mode Timer	Off / 90 Seconds	Delay entering parking mode for a set time after the vehicle is turned off.
Parking G-sensor	Low / Medium / High Sensitivity	Adjust the sensitivity of the G-sensor in parking mode.
Parking Motion Detection	Low / Medium / High Sensitivity	Adjust the sensitivity of the motion detection in parking mode.
Parking GPS	Off / On	Turn on / off GPS logger in parking mode. Turning GPS off will reduce power consumption, resulting in longer battery life.
Parking HDR	Off / On	Turn on / off HDR in parking mode.
Parking Files Storage	MicroSD Card / External SSD	Save the parking recording files to MicroSD Card or External SSD. In Low Power Impact Detection or Hybrid Parking Recording Mode, parking files are stored only on the MicroSD card.

- **Front Tele Camera:**
  Off / On / Only On while Driving / Only On while Parking.
  You can enable / disable the telephoto camera under driving or parking mode.

Note:
This setting is only available on the telephoto camera edition.

- **Image Rotate & Mirror:**
  Turn on / off the rear camera / infrared fisheye cabin camera / telephoto camera image rotate and mirror.

- **Multiplex Video:**
  You can choose different channels for multiplex recording.

  Standard Edition: Off / Front + Interior / Front + Rear / Front + Interior + Rear

  Telephoto Edition: Off / Front + Telephoto / Front + Rear / Front + Telephoto + Rear

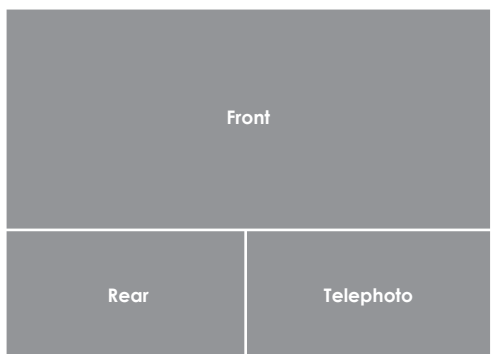
  Waterproof Edition: Off / Front + Interior / Front + Rear / Front + Interior + Rear

  Dual-Waterproof Edition: Off / Front + Exterior Cam 1 / Front + Exterior Cam 2 / Front + Ext Cam 1 + Ext Cam 2

Video Layout (take telephoto edition as example):

2 Channels

3 Channels



- **Custom Text Stamp:**
  Imprint the customize text on the recorded video.

- **License Plate Number:**
  Imprint the car number on the recorded video.

- **Live Video Source:**
  Front Camera / Interior Camera / Telephoto Camera / Rear Camera / All Cameras.

- **Privacy Mode:**
  Turn on / off privacy mode. When the privacy mode is on, the dashcam only saves the latest 2 (for single-channel camera) or 4 (for dual-channel camera) or 6 (for 3-channel camera) normally recorded video files. When privacy mode is enabled, each loop recording is limited to 1 minute.

System Settings

- **Wi-Fi:** Off / 2.4GHz / 5GHz.
  Set it On / Off. Press the [] button for 3 or 5 seconds to enable Wi-Fi quickly. We recommend choosing 5GHz Wi-Fi mode.

- **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
  Take a Photo
  Turn On / Off WiFi
  Power Off
  Switch to Timelapse Recording
  Turn On / Off HDR
  Parking Mode

- **Time Zone:** Set the current time zone for GPS time and date calibration.

> **Note:**
> The time zone must be manually adjusted for daylight savings, except for the United States regions.

- **Time Format:**
  24H / 12H. Set system time format.

- **Daylight Saving:**
  Off / United States. Set US daylight saving on or off.

- **Date/Time:**
  Set system date / time.

- **Boot Delay:**
  The camera will boot seconds delay when powered on. The settings are Off / 5 Seconds / 10 Seconds.

- **LED:**
  Front LED: All Off / All On / Power LED Only
  Rear LED: Off / On
  Front Tele Cam LED: Off / On
  Interior LED: Off / On
  You can enable / disable the LED lights.

- **Parking Mode LED:**
  All Off / All On / Power LED Only.
  You can enable / disable the LED lights under Parking Mode.

- **Manage SSD Storage:**
  You can choose to backup MicroSD card files (Last 24 hours/7 days/All) into SSD, or delete external SSD files.

- **Video Storage:**
  MicroSD Card / External SSD.
  You can choose to store videos and photos on these two different storage devices.

- **Beep Sound:**
  Off / Only Keytone / Only Boot Sound / All.
  You can enable/disable the button and startup sounds.

- **Voice Notification:**
  Turn on / off the voice notification.

- **Voice Notification Volume:**
  Low / Medium / High
  Adjust the volume of the voice notification.

- **Voice Control:**
  Turn off / on 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 four options: English, Chinese, Russian, and Japanese. 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 remote control the camera, like:

  - Take Photo
  - Video Start
  - Turn On Audio
  - Turn Off Audio
  - Turn On Screen
  - Turn Off Screen
  - Turn On Wi-Fi
  - Turn Off Wi-Fi
  - Show Front Camera
  - Show Rear Camera
  - Show Both Cameras
  - Lock The Video

- **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.

- **Speed Units:**
  Kilometer per hour (KMH) and miles per hour (MPH) are available for speed units.

- **Screen Saver:**
  The screen goes black by default after 1minute while recording. You can set it by adjusting different time intervals on menu.

- **Frequency:**
  Set it to minimize flickering and banding in the recorded video.

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

- **Format: MicroSD Card / External SSD:**
  You can choose to delete all data on the microSD card or external SSD.

Note:
Once you format the card or SSD, all information will be deleted and unrecoverable. Make sure to back up all files that you needed before formatting.

- **Format Reminder:** Off / 15 / 30 / 60 Days.
  Set regular reminders for formatting the memory card.

- **Default Setting:** Restore device to factory settings.

- **Version:** Check the current firmware version of the camera.

File Lists

- **Video:** Video File Lists.
- **Photo:** Photo File Lists.

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.
- Not support firmware upgrade via external SSD.

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.

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.

Shenzhen VIOFO Technology Co., Ltd, declares that this Radio Frequency peripheral is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

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 viofo.com/support
- 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