



Scan to Access User Guide Videos



Scan to Access User Manual

A149 Pro Series

USER MANUAL

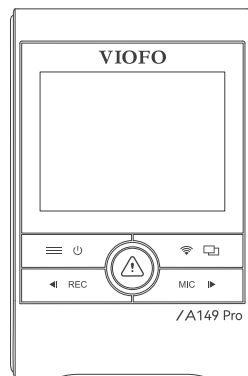


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Standard Items



Front Camera
+ Mount



Car Charger



Type-C Data
Cable (0.5 m)



Trim Removal
Tool



Spare Front
Mount Sticky Pads



Windshield
Static Stickers



CPL-800 for
Front Camera

Optional Accessories (Sold Separately)



Rear Camera



Rear Camera
Cable (6 m)



CPL-600 for
Rear Camera



Bluetooth
Remote Control



microSD
Card



HK4
Hardwire Kit



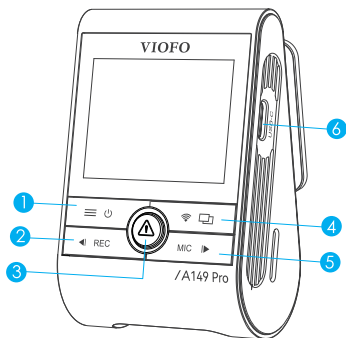
HK6
Hardwire Kit

Note:

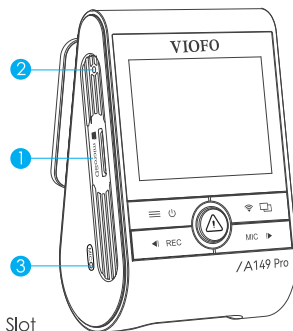
The Type-C Data Cable is only intended for connecting the camera to computers for data transfer or firmware updates. It should not be used for charging the camera.

Product Diagram

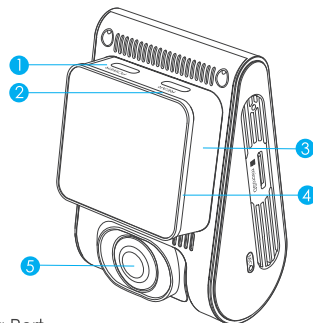
■ Front Camera (Main Unit)



- 1 - Menu / Power On | Off / Power Status Indicator
- 2 - Menu Up / Recording Start | Stop / Recording Status Indicator
- 3 - Menu Confirm / Video Protect / Playback
- 4 - Wi-Fi On | Off / Camera View Switch / Wi-Fi Status Indicator
- 5 - Menu Down / Microphone On | Off / Microphone Status Indicator
- 6 - Power In / Data Cable Port (does not support Parking Mode; use the Power Port on GPS module with HK4 / HK6 Hardwire Kit for Parking Mode)

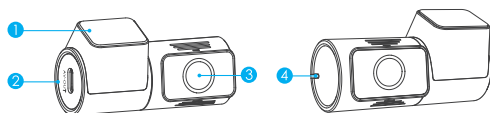


- 1 - Memory Card Slot
- 2 - Reboot Pinhole
- 3 - Microphone Hole



- 1 - Power Port
- 2 - Rear Camera Port
- 3 - GPS Module (Non-Removable)
- 4 - Mounting Bracket
- 5 - Lens

■ Rear Camera (Optional)



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

LED Indicators

LED	LED Status	Behavior
	Flashing red	Updating firmware
	Solid red	Power on
	Off	Power off
REC	Solid red	Recording
	Flashing red	Not recording
MIC	Solid blue	Audio recording on
	Off	Audio recording off
	Flashing blue	Wi-Fi on and waiting to connect
	Solid blue	Wi-Fi connected
	Off	Wi-Fi disabled

Buttons and Icons

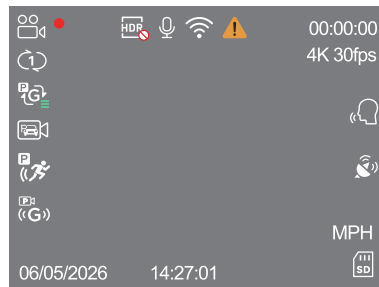
Mode	Button	Action
Recording Mode		Press once to snap a photo Press and hold for 2 seconds to enter the menu Press and hold for 6 seconds to power off
		Press once to stop recording
		Press once to snap a photo and lock the file being recorded
		Press once to enable / disable audio recording Press and hold to enable / disable parking mode
		Press once to change live video source Press and hold to enable / disable Wi-Fi

Mode	Button	Action
Standby Mode (Not Recording)		Press once to enter the menu Press and hold for 6 seconds to power off
		Press once to start recording Press and hold to format the memory card
		Press and hold to enter the playlist
		Press once to enable / disable audio recording Press and hold to enable / disable parking mode
		Press once to change live video source Press and hold to enable / disable Wi-Fi

Mode	Button	Action
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 video / Unlock current video
	 	N/A

Mode	Button	Action
Setting Menu Mode	 	Exit setting menu / Return to previous menu
	 	Menu up
		Enter / Confirm setting options
	 	Menu down
	 	N/A

Display Overview

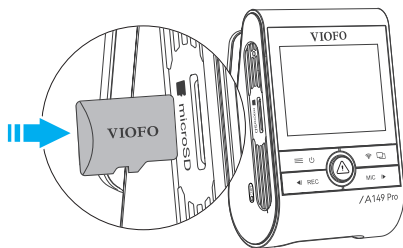


	Recording Mode		Wi-Fi Status
	Recording Status		Emergency Lock
	Loop Recording Status	00:00:00	Recording Time
	Parking G-Sensor Status	4K30fps	Video Resolution
	Parking Mode		Voice Control
	Auto Event Detection		GPS Status
	Low Power Impact Detection	MPH	GPS Speed
	HDR Status		microSD Card Status
	Microphone Status		

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 not included in the camera package and must be purchased separately, with a supported capacity of up to 512 GB.
- We recommend that you buy a VIOFO industrial-grade microSD card for extended endurance, excellent performance and reliability.

■ Format the memory card

The memory card must be formatted before first use. Please format the card in the camera or on a computer to the exFAT or FAT32 file system.

Format the memory card in the camera

To format the memory card in the camera, use the VIOFO Dashcam App (Settings > Format), or stop recording and long press the [◀IREC ▶] button on the camera.

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:

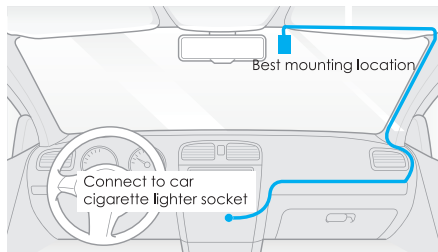
<https://viofotech.com/download/guiformat.exe>

Note:

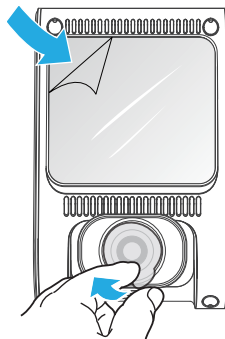
We suggest formatting the card periodically to ensure the best performance of the camera. Formatting the card will erase all data permanently. Please back up important data beforehand.

Install the 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.

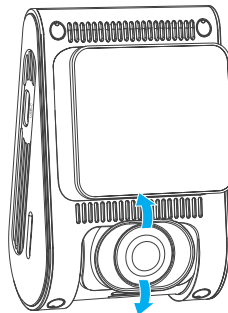


2. Wipe the installation surface of the windshield clean with a dry cloth. The surface must be grease-free for the sticky pad to adhere firmly.
3. Mount the dash cam directly to the windshield with the sticky pad, or attach the static sticker to the selected location before installation (Refer to guide on page 14).
4. Peel the protective film off the sticky pad and camera lens.

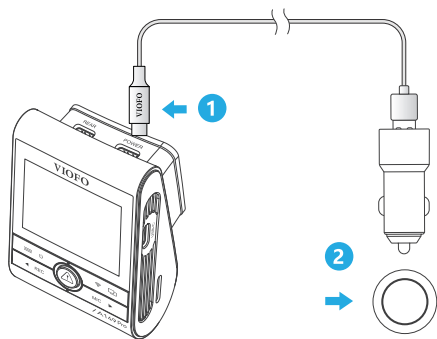


5. Fix the camera on the selected location.

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 the power.



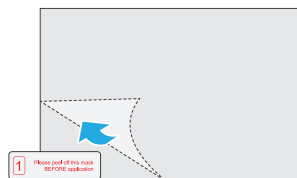
Connect the Type-C end of the car charger's cable to the camera's POWER port (on the GPS mount). Plug the other end into the car charger adapter, and then insert the car charger into your vehicle's 12 V / 24 V power socket.

Note:

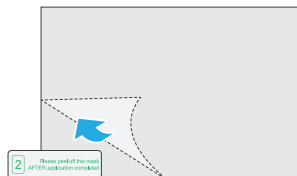
1. Install / mount the camera close to the rear-view mirror so that both sides of the scene being recorded are equally covered by the camera's FOV (field of view).
2. To ensure a clear view on rainy days, the lens should be positioned within the windshield wiper's sweeping range.

Install the Static Sticker (Optional)

1. Wipe the installation surface of the windshield clean with a dry cloth.
2. Peel off the red-tabbed protective film from the static sticker, then attach the sticker to the windshield. Press firmly for a few seconds to ensure it is securely attached and free of air bubbles.

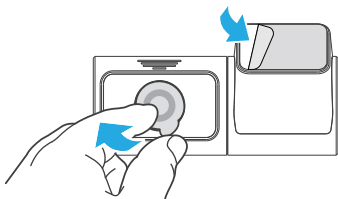


3. Peel off the green-tabbed protective film from the static sticker. The surface is now ready for mounting the dash cam.

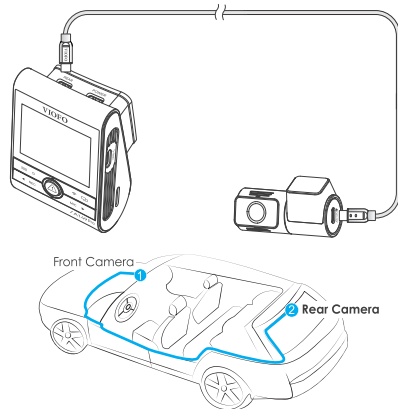


Install the Rear Camera (Optional)

1. Select an installation location on the rear windshield, without defrost grid wires, and where the camera can record the entire rear view.
2. Wipe the installation surface of the windshield clean with a dry cloth.
3. Peel the protective film off the sticky pad and camera lens.



4. Fix the rear camera on the selected location.
5. Connect the rear camera.
Power off the front camera (main unit) and connect the rear camera cable to the front camera.
Cable routing should be as shown in the following two diagrams.



Tips:

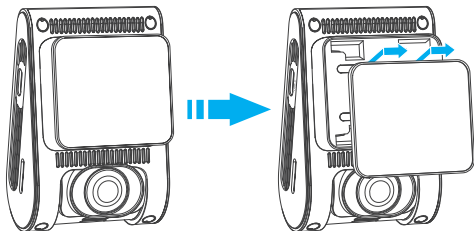
1. Do not install / mount the camera in a location that obstructs the driver's view or compromises safety.
2. Do not install / mount the camera or cables near an airbag panel or within the airbag's working range.
3. The installation / mounting location should not be affected by sun control film (window tint). There should not be any other electronic equipment close to the camera for optimal performance.

Note:

The manufacturer is not liable for any injury or death caused by deployment of the airbag.

Remove the Front Camera

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 dash cam, please perform the initial setup by setting the language, time zone and speed unit.

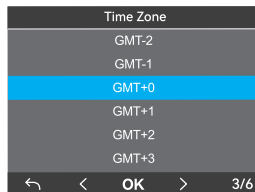
① Language Setting

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



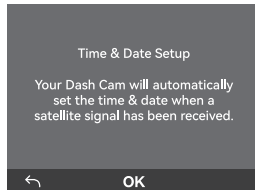
② Time Zone Setting

Press the menu up [◀REC] 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 menu to modify settings.



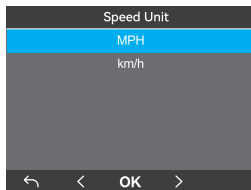
③ Confirm Auto Time and Date Setup

Press the OK [△] button to confirm.



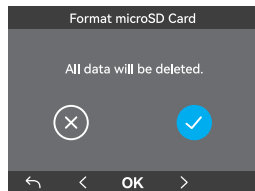
④ Speed Unit Setting

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



⑤ Format microSD Card

The memory card must be formatted before first use. Select [✓] and press the OK [△] button to confirm formatting the memory card. After successful formatting, the camera will return to the preview screen and start recording automatically.



Note:

- The above settings can be modified at any time from the settings menu.
- After restoring the device to factory settings, the initial setup interface will also be triggered upon startup.

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 power 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 is powered on.
2. Each video file can be set to 1, 2, 3, 5, or 10 minutes in length.
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 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:

1. Collision detection sensitivity can be adjusted in settings under the "G-Sensor" option.
2. Locked files are saved to microSD card:
\\DCIM\\Movie\\RO
3. Protected (RO) videos can take up to 30% of the memory card. Once this limit is reached, new protected videos will automatically overwrite the oldest ones.

Disable / Enable Audio Recording

Press the [MICI▶] button once to turn audio recording on or off. The [MICI▶] LED will turn solid blue or off accordingly.

Parking Mode

There are 5 parking modes:

1. Hybrid Parking Recording

This mode combines two parking modes in sequence. Options include: Low Bitrate -> Impact, Event Detection -> Impact, Time-lapse 1 fps (SNV) -> Impact, Time-lapse 1 fps -> Impact, Time-lapse 2 fps -> Impact, Time-lapse 3 fps -> Impact, Time-lapse 5 fps -> Impact, Time-lapse

10 fps -> Impact. The camera starts in regular parking mode: time-lapse (1 / 2 / 3 / 5 / 10 fps), low bitrate, or auto event detection and then switches to impact detection based on the preset cut-off time, cut-off voltage, or cut-off battery pack capacity.

e.g., When the cut-off time is set to 30 minutes and the hybrid parking mode is Time-lapse 1 fps -> Impact, the camera records in Time-lapse 1 fps 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 the "Cut-off Time", "Cut-off Voltage", or "Cut-off Battery Pack Capacity".
2. This mode is only available when powered by a VIOFO Hardwire Kit.
3. Cut-off Voltage is only available with the VIOFO HK6 Hardwire Kit.
4. Cut-off Battery Pack Capacity is only available with the VIOFO BP100 / BP60 Battery Pack.
5. Super Night Vision (SNV) delivers significantly brighter footage in extreme low-light conditions, ensuring clear coverage even in near-total darkness.

2. Low Power Impact Detection

In this mode, the camera stays powered off until it is activated. When an impact is detected, the camera wakes up within approximately 2 seconds and records for 1 minute. If movement is detected during

that time, the recording will be extended for up to 3 minutes.

Note:

This mode is only available when powered by a VIOFO Hardwire Kit.

3. Low Bitrate Recording

This mode records video and audio at a low bitrate, producing smaller files for continuous recording.

4. Auto Event Detection

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

Note:

Parking mode provides surveillance of your parked vehicle only when the engine is off and the VIOFO HK4 / HK6 Hardwire Kit is used to provide continuous power. The Hardwire Kit also protects your vehicle's battery from being drained. We recommend buying the VIOFO HK4 / HK6 Hardwire Kit for parking mode recording. Cut-off Voltage is only available with the VIOFO HK6 Hardwire Kit.

5. Time-lapse Recording

Time-lapse records video at low frame rates (1 / 2 / 3 / 5 / 10 fps) and continues recording without audio.

Note:

Time-lapse 1 fps mode supports the Super Night Vision option to deliver significantly brighter footage in extreme low-light conditions, ensuring clear coverage even in near-total darkness.

Video Playback and Management

Video Playback on Dash Cam

1. In standby mode (not recording), press and hold the [] button to enter the playlist.
2. Press the menu up [] and menu down [] buttons to select the desired video, and press the [] button to play.
3. Press the [ ] button to exit.

Video Playback on VIOFO Dashcam App

Press and hold the [ ] button to enable Wi-Fi. Connect your phone to the dash cam's Wi-Fi, then open the VIOFO Dashcam App and tap "Add Dash Cam". Select your dash cam model to connect and start controlling it. You can view, play, and manage files in the App. For more details, see **[Review and Control on Smartphone]** on page 27.

Video Playback on VIOFO Player

■ Via Memory Card

1. Remove the memory card from the dash cam.
Before removing the memory card, make sure you have switched off the dash cam.
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:

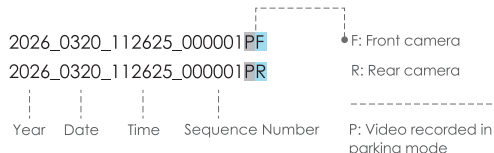
If your PC has a microSD slot, you can insert the memory card directly.

Video File Storage Location

Recording Mode	Storage Path
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 different cameras are saved separately.



Review and Control on Smartphone

Connect to Smartphone

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

■ Download VIOFO Dashcam 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 to VIOFO Dashcam App

• **Step 1:** Press and hold the [ ] button to turn on Wi-Fi. When Wi-Fi is enabled, the Wi-Fi LED indicator will start blinking.

• **Step 2:** Open the Wi-Fi settings on your phone and connect to the dash cam network.

Once your phone is successfully connected to the dash cam, the Wi-Fi LED indicator will turn solid blue.



• **Step 3:** Open the VIOFO Dashcam App. Tap "Add Dash Cam", then select your dash cam model to connect and start controlling it.

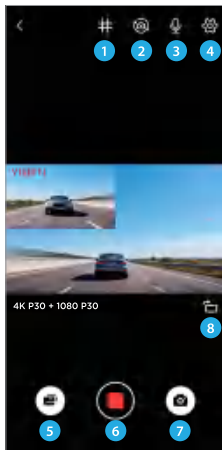
App Layout Overview

Tap "Add Dash Cam" to pair the dash cam with your phone for control.



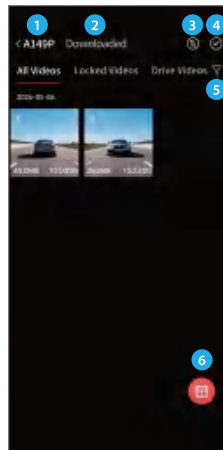
Home

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



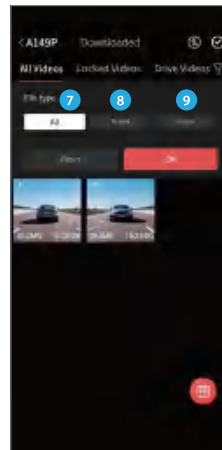
Live View

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



Gallery

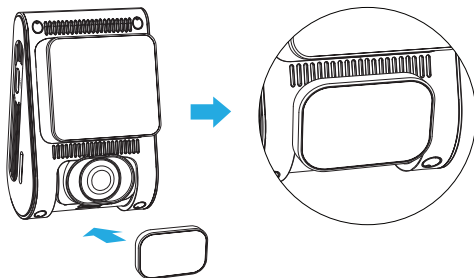
- ① microSD Card Files
- ② Downloaded Files
- ③ Download List
- ④ Select Multiple
- ⑤ Filter by Camera
- ⑥ Filter by Date
- ⑦ All Video Clips
- ⑧ Front Video Clips
- ⑨ Rear Video Clips



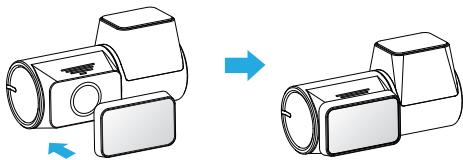
Install Accessories

Install CPL on Front Camera

The CPL (Circular Polarizing Lens) reduces reflections and glare from the windshield and road surfaces that would otherwise degrade image quality. It works similarly to polarized sunglasses, producing more vivid and saturated video.



Install CPL on Rear Camera (Optional)

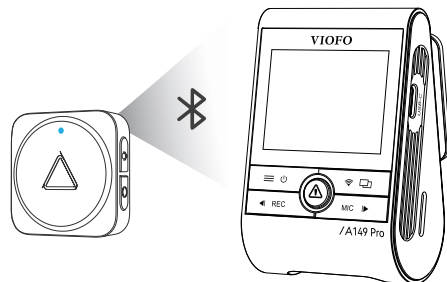


Install Bluetooth Remote Control (Optional)

The Bluetooth Remote Control (optional) features three buttons and mounts conveniently on your dashboard, allowing you to safely lock important videos, toggle Wi-Fi, enable / disable HDR, and perform other functions — all without diverting your attention from the road.

Pairing with dash cam

- Power on the camera.
- Press and hold the video lock button on the remote control for 3 seconds to pair it with the camera.
- If the pairing is successful, the LED indicator on the remote will turn solid blue.
If the pairing fails, the indicator will flash red continuously. In this case, please restart the dash cam or restore the camera to factory settings, then try again.



Dash Cam Settings

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

Video Settings

- **Resolution:**

1 Channel:

4K 30fps

4K 21:9 30fps

2 Channels:

4K P30 + 1080 P30

4K P30 21:9 + 1080 P30

Note:

The 4K resolution refers to 3840×2160P.

The 4K 21:9 refers to 3840×1600P.

- **HDR:** Off / On / Auto HDR Timer.

You can set HDR for the front camera. The multi-exposure HDR technique helps automatically balance the lighting in overly bright and overly dark areas to avoid overexposure issues. Default: On.

Note:

The rear camera HDR cannot be adjusted and is ON by default.

- **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 a 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 by default, and the oldest footage will be overwritten when the microSD card is full.

- **Audio Recording:** Off / On / Parking Only.

Turn the microphone on or off, or enable audio only in Parking Mode. This can be changed during recording by pressing the microphone button [MIC▶].

- **Exposure Value:**

Adjusting the value of the front camera's 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.

- **G-Sensor:** Off / Low / Medium / High Sensitivity.

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 which information to imprint on the recorded video.

Date Stamp / GPS Speed Stamp / GPS Coordinates Stamp / Custom Text Stamp / License Plate Stamp / Logo Stamp / Brand Model Stamp / Resolution Stamp / Vehicle Voltage Value / Battery Pack Capacity / Stamp Text Color.

Note:

1. To display the vehicle voltage value, the dash cam must be powered by the VIOFO HK6 Hardwire Kit.

2. To display the battery pack capacity, the dash cam must be powered by the VIOFO BP100 / BP60 Battery Pack. This stamp is visible only in the VIOFO Dashcam App after both the dash cam and battery pack have been added to the App.

3. You can change the stamp text color in the video file to White / Yellow / Cyan / Gold.

- **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 Kit cuts power. "Off" means the camera will keep recording until the Hardwire Kit cuts the power supply. "30 Minutes" means the camera will shut down 30 minutes after entering parking mode.

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:

Off; 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 Kit cuts power for 12 V or 24 V 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 the VIOFO HK6 Hardwire Kit.

Cut-off Battery Pack Capacity:

Off; 5%; 8%; 10%; 15%.

Set the battery pack capacity at which the camera powers off.

Note:

1. In hybrid parking recording mode, the cut-off battery pack capacity means the capacity at which the camera switches to impact detection mode.

2. To enable this function, you need to use the VIOFO BP100 / BP60 Battery Pack with one of its compatible included cables.

Parking Mode:

There are 5 parking modes:

① Hybrid Parking Recording

This mode combines two parking modes in sequence. Options include: Low Bitrate -> Impact, Event Detection -> Impact, Time-lapse 1 fps (SNV) -> Impact, Time-lapse 1 fps -> Impact, Time-lapse 2 fps -> Impact, Time-lapse 3 fps -> Impact, Time-lapse 5 fps -> Impact, Time-lapse 10 fps -> Impact. The camera starts in regular parking mode: time-lapse (1 / 2 / 3 / 5 / 10 fps), low bitrate, or auto event detection and then

switches to impact detection based on the preset cut-off time, cut-off voltage, or cut-off battery pack capacity.

e.g., When the cut-off time is set to 30 minutes and the hybrid parking mode is Time-lapse 1 fps -> Impact, the camera records in Time-lapse 1 fps 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 the "Cut-off Time", "Cut-off Voltage", or "Cut-off Battery Pack Capacity".

2. This mode is only available when powered by a VIOFO Hardwire Kit.

3. Cut-off Voltage is only available with the VIOFO HK6 Hardwire Kit.

4. Cut-off Battery Pack Capacity is only available with the VIOFO BP100 / BP60 Battery Pack.

5. Super Night Vision (SNV) delivers significantly brighter footage in extreme low-light conditions, ensuring clear coverage even in near-total darkness.

② Low Power Impact Detection

In this mode, the camera stays powered off until it is activated. When an impact is detected, the camera wakes up within approximately 2 seconds and records for 1 minute. If movement is detected during that time, the recording will be extended for up to 3 minutes.

Note:

This mode is only available when powered by a VIOFO Hardwire Kit.

③ Low Bitrate Recording

This mode records video and audio at a low bitrate, producing smaller files for continuous recording.

④ Auto Event Detection

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

⑤ Time-lapse Recording

Time-lapse records video at low frame rates (1 / 2 / 3 / 5 / 10 fps) and continues recording without audio. Time-lapse 1 fps mode supports the Super Night Vision option to deliver significantly brighter footage in extreme low-light conditions, ensuring clear coverage even in near-total darkness.

Note:

1. We recommend that you buy a VIOFO HK4 / HK6 Hardwire Kit for parking mode recording.
2. Cut-off Voltage is only available with the VIOFO HK6 Hardwire Kit.
3. If you park the vehicle outdoors in hot summer weather, we highly recommend Time-lapse recording mode. If the temperature inside the car exceeds 60°C (140°F), we recommend turning off the dash cam to avoid recording errors or irreversible damage.

Enter Parking Mode Timer: Off / 90 Seconds.

Set the timer for entering parking mode (available only with a Hardwire Kit; this function will not work with an external battery).

"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: Low / Medium / High Sensitivity. The G-Sensor detects significant or sudden movement (such as an impact or collision) and triggers an event recording. We suggest setting it to High Sensitivity in parking mode recording.

Parking Motion Detection: Low / Medium / High Sensitivity.

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.

Parking Mode GPS: Off / On.

Turn on / off GPS logger in parking mode.

Parking Mode HDR: Off / On.

Turn on / off HDR in parking mode.

Geofencing:

▪ Zone 1 / Zone 2 / Zone 3: Off / On.

Define up to three areas where parking surveillance is not required (e.g., a private garage).

When your vehicle enters a designated zone, the dash cam will power off completely instead of entering parking mode to conserve the vehicle's battery. The dash cam will only power off when it is inside a designated zone and a valid GPS fix is available. In any other case (outside the zone, GPS weak, or GPS lost), the dash cam will enter parking mode as usual.

▪ Low Power Impact Recording: Off / On.

Choose how the dash cam behaves inside your

geofenced zones when the engine turns off. When enabled, the dash cam automatically enters Low Power Impact Detection mode instead of shutting down completely, regardless of your current Parking Mode settings. Default: Off.

Note:

Low Power Impact Recording only works when the Parking Mode is enabled. If Parking Mode is turned off, the dash cam will always power off completely inside the designated zones.

Parking Impact Notification: Off / On.

When enabled, the dash cam notifies you upon startup if an impact was detected while parked. If Beep and Voice settings are active, you will hear a sequence of beeps and a voice prompt. Default: On.

Note:

Detected impacts generate protected "Event" videos and are saved under the "\DCIM\Movie\RO" folder. Impacts detected within 3 minutes of entering or exiting Parking Mode are not recorded as events to prevent false alerts (e.g., door closing).

Parking Recording Settings

(Video Settings > Parking Recording)

Parking Recording Settings		Details
Vehicle Battery Protection		After entering parking mode, the Vehicle Battery Protection can optimize the use of battery power to achieve longer periods of protection before the Hardwire Kit Low Voltage Protection is activated. If Cut-off Time, Cut-off Voltage, and Cut-off Battery Pack Capacity are all 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 dash cam will stop recording and power off until the vehicle is restarted. Hybrid Parking Mode: After the set time, the dash cam will automatically switch to Low Power Impact Detection Mode. This can provide a much longer period of dash cam protection.
	Cut-off Voltage (Requires HK6 Hardwire Kit)	Normal Parking Mode: If the vehicle's battery voltage drops below the set value, the dash cam 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 dash cam will automatically switch to Low Power Impact Detection Mode, and continue recording until the Hardwire Kit Low Voltage Protection is activated.
	Cut-off Battery Pack Capacity (Requires BP100 / BP60 Battery Pack)	Normal Parking Mode: If the battery pack's capacity drops below the set value, the dash cam will stop recording and power off until the vehicle is restarted. Hybrid Parking Mode: If the battery pack's capacity drops below the set value, the dash cam will automatically switch to Low Power Impact Detection Mode, and continue recording until the battery pack runs out of power.

Parking Recording Settings

(Video Settings > Parking Recording)

Parking Recording Settings			Details
Parking Mode	Hybrid Parking Recording		A combination of 2 parking modes.
		Low Bitrate & Impact	The dash cam records in Low Bitrate Recording Mode. If the set cut-off condition is reached, it will automatically switch to Low Power Impact Detection Mode.
		Event Detection & Impact	The dash cam records in Auto Event Detection Mode. If the set cut-off condition is reached, it will automatically switch to Low Power Impact Detection Mode.
		Time-lapse & Impact	The dash cam records in Time-lapse Mode at 1 fps (SNV), 1 fps, 2 fps, 3 fps, 5 fps, or 10 fps. If the set cut-off condition is reached, it will automatically switch to Low Power Impact Detection Mode.
	Low Power Impact Detection		In Low Power Impact Detection Mode, the camera stays powered off until it is activated. When an impact is detected, the camera wakes up within approximately 2 seconds and records for 1 minute. If movement is detected during that time, the recording will be extended for up to 3 minutes.
	Low Bitrate Recording		In Low Bitrate Recording Mode, the dash cam records video and audio continuously, maximizing the amount of video that can be stored on the storage device.
	Auto Event Detection		In Auto Event Detection Mode, the dash cam will automatically start 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	Time-lapse	In Time-lapse Mode, the dash cam records a video without audio at low frame rates at 1 / 2 / 3 / 5 / 10 fps.
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		Adjust the sensitivity of the motion detection in parking mode.
Parking Mode GPS	Off / On	Turn on / off GPS logger in parking mode. Turning GPS off will reduce power consumption, resulting in longer battery life.
Parking Mode HDR		Turn on / off HDR in parking mode.
Geofencing	Zone 1 / Zone 2 / Zone 3: Off / On	Define up to three areas where parking surveillance is not required (e.g., a private garage). Inside a designated zone with a valid GPS fix, the dash cam automatically powers off to conserve the vehicle's battery.
	Low Power Impact Recording : Off / On	Choose how the dash cam behaves inside geofenced zones when the engine turns off (requires Parking Mode to be enabled). On: Enters low-power standby within the designated zone and records only when an impact is detected. Off (Default): Remains completely powered off within the designated zone to maximize battery savings.
Parking Impact Notification	Off / On	Choose whether to receive a notification if an impact is detected while your vehicle is parked. Default: On.

- **Rear Camera:** Off / On / Only On while Driving / Only On while Parking.
You can enable / disable the rear camera in driving or parking mode.

- **Image Rotate & Mirror:**

Rear Image Rotate: On / Off

Rear Image Mirror: On / Off

Choose whether to rotate or mirror the rear camera image.

- **Custom Text Stamp:**

Imprint custom text on the recorded video.

- **License Plate Number:**

Imprint the license plate number on the recorded video.

- **Live Video Source:** Front Camera / Rear Camera / Rear Overlaid / Front Overlaid.

Select the live video display layout you want to view on the camera.

- **Privacy Mode:** Off / On.

When the privacy mode is on, the dash cam only saves the latest 2 (for 1-channel camera) or 4 (for 2-channel camera) normally recorded video files. When privacy mode is enabled, each loop recording is limited to 1 minute.

Note:

Video locking is also available when privacy mode is enabled, with no limit on the number of protected (RO) videos.

System Settings

- **Wi-Fi Frequency:** Off / 2.4 GHz / 5 GHz.

Press and hold the [ ] button to quickly enable or disable Wi-Fi. We recommend using the 5 GHz Wi-Fi mode for better performance.

- **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 dash cam, including:

Turn On / Off Microphone

Take a Photo

Turn On / Off Wi-Fi

Power Off

Turn On / Off HDR

Turn On / Off Parking Mode

Turn On / Off Rear Cam

Wi-Fi Station Mode

- **Time Zone:**

Set the current time zone for GPS time and date calibration.

- **Time Format:**

24 H / 12 H. Set the system time format.

- **Daylight Saving Time:**

Off / On. When enabled, the time increases by 1 hour (e.g., 15:35 becomes 16:35).

- **Date/Time:**

Set the system date, time and date format.

- **LED:**

All Off / All On / Power LED Only.

Enable or disable the LED indicators during normal recording.

- **Parking Mode LED:**

All Off / All On / Power LED Only.

Enable or disable the LED indicators during Parking Mode.

- **Beep Sound:**

Off / Only Key Tone / Only Boot Sound / All.

Enable or disable button and startup sounds.

- **Voice Notification:**

Off / On / Only Critical Alerts.

You can turn voice notifications on or off, or choose to receive only critical alerts.

When Only Critical Alerts is enabled, the dash cam will announce only critical issues, such as:
"An impact was detected during parking recording."
"Memory card error, please format the card."
"Memory card format failed."
"Please insert a memory card."

Note:

The "An impact was detected during parking recording" announcement will only play if Parking Impact Notification is enabled.

- **Voice Notification Volume:**

Low / Medium / High.

Adjust the volume of the voice notification.

- **Voice Control:** Off / On.

With Voice Control enabled, you can operate the camera using voice commands to capture photos, toggle Wi-Fi, start recording, and perform other functions.

Note:

Voice command language should be consistent with dash cam system language in the following four languages: English, Chinese, Russian, and Japanese. For all other dash cam language systems, English is the only language that can trigger the voice control function.

- **Voice Command:**

Voice recognition commands. You can issue different voice commands to remotely 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:** Off / On.

A GPS module is used to include the location data in the recorded videos.

If disabled, the camera will no longer measure your speed or position, nor will it synchronize the time and date. (Only available when a GPS signal is detected.) Please use "VIOFO Player" to play back videos and to visualize your position and speed on your computer.

- **Speed Unit:**

Speed can be displayed in kilometers per hour (km/h) or miles per hour (MPH).

- **Screen Saver:** 3 Seconds / 15 Seconds / 30 Seconds / 1 Minute / 3 Minutes.

The screen goes black by default after 1 minute while recording. You can adjust the time interval in the menu.

- **Frequency:** 50 Hz / 60 Hz.

Set the frequency to minimize flickering and banding in recorded videos.

- **Language:**

Display language setting. (English, German, French, Spanish, Italian, Japanese, etc.)

- **Format:**

Format the microSD card to delete all data.

Note:

Formatting will erase all files permanently and cannot be undone. Make sure to back up any important files before formatting.

- **Format Reminder:** Off / 15 / 30 / 60 Days.

Set regular reminders for formatting the memory card.

- **Export Settings:** Off / On.

When enabled, a configuration file (viofo_config) is automatically generated in the root directory of the microSD card. This file can be opened with the configuration tool to view all current dash cam settings, including menu options and selected parameters.

Note:

Always power off the camera before removing the microSD card to avoid missing or outdated settings.

- **Reset Camera Settings:**

Restore all device settings to their default values.

- **Version:**

Check the current firmware version of the dash cam.

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.
- The firmware update may reset your camera settings to the default.

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 is subject 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 a minimum distance of 20 cm 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, 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 has a Product Registration Program to help customers extend their 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 captured by your VIOFO camera with us at share@viofo.com. Let's enjoy these moments together — and get a chance to receive a mystery gift!

How to Contact Us?



Submit a ticket at support.viofo.com



Live chat 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