Road-Only Al Dashcam for Fleets

- Built-in GPS tracking
- Advanced Driver Assistance System
- Wi-Fi hotspot
- Wide-angle, road-facing view
- Plug & Play installation (OBD-II & JBUS)



Wake-up at will

Remote wake-up and sleep mode allows your team to stream or view historic footage when needed while also conserving vehicle battery life.

Driving has never been safer

FleetCam Essential's powerful Al continuously monitors the road, detecting critical safety events, such as lane departures, follow distance, and more.

Next-level clarity

Armed with 1080P HD resolution, FleetCam Essential gives you the clarity you need while infrared ensures excellent low-light performance.

Effortless communication & tracking

With Wi-Fi, 4G communication, positioning module, and regular GPS updates, fleet tracking becomes more precise, and mobile hotspot keep driver devices easily connected.



FleetCam Essential Road Only

Built on powerful AI edge processing, the FleetCam Essential gives you everything you need to monitor your fleet and improve driver safety and accountability. It features AI safety event detection and alerts, and a crystal-clear, HD road-facing camera with excellent low-light visibility.

Specification

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GNSS Supported

GPS L1 C/A: 1575.42 MHz Galileo E1: 1575.42 MHz

GLONASS L1: 1598.0625-1605.375 MHz

BDS B1, BDS B1C, QZSS L1 C/A

Network

Wi-Fi		Support 2.4G (IEEE Std. 802.11a/b/g/n)
4G	North America:	LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5
	Europe and Asia:	LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8, GSM: B3/B8
	Latin America:	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40, WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8

Physical

Dimensions (MM)	Dashcam: 113.0 mm (length) × 67.2 mm (width) × 57.0 mm (height, without bracket)
Weight (kg)	Net weight (device only): 295g Gross weight (including accessories and package): 745g Deviation: ±10g

Storage & Sensor

Six-axis Sensor	Harsh acceleration, Harsh deceleration, Harsh cornering
Micro SD card	Micro SD card×2, (SDXC 32GB/64GB/128GB/256GB/512GB) (FTS Approved SD cards only)

Port

I/O Port	1-channel input
Button	1- Single click for SOS or Manual trigger event 2- Press and hold to enable Privacy Mode
	3- Press twice within 2 seconds to enable
	WiFi AP Mode

Power

Power supply	12-24V Range
Power consumption	 standby:13.5V@5.66mA, 27V@3.4mA sleep: (4G and MCU powered): 13.5V@71~125mA, 27V@30~56mA Typical power consumption: ~7.56W Full-load power consumption: ~10.06W

Audio-Video

AV Recording	2-channel (road-facing + auxiliary camera support)
Video Coding	H.265
Audio Compression	G.711
Audio	Built-in MIC
Loudspeaker	Built-in speaker, power: 3W, with adjustablevolume, not less than 70 dB at 1 m distance

Enviroment

Operating Temp.	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temp.	-40°C ~ +85°C (-40°F ~ +185°F)
Operating and storage Humidity	15~95% non-condensing
IP Rating	IP30

Recording

Video Compr. Format	H.264/H.265 (Default)
Audio Compr. Format	ADPCM, G.711, G.726
Image Resolution	ADAS: 1080P (1920 × 1080) Supports PAL & NTSC



(Power Status Lights

Off: The device is not powered on Steady green: The device is powered normally



Alarm Indicator

Off: The device is not currently uploading data **Red flashes three times:**The device is uploading data



GPS Signal Indicator

Off: Normal
Steady red: No GPS, or module may be malfunctioning
Red flash (once per second): GPS reception is poor



Network Status Indicator

Off: The device is connected to the server normally Steady red: The device is not connected to the server



Wi-Fi Status Indicator

Off: The device is in Disable or Client mode Steady green: The device is in AP mode Steady red: There is an issue with the Wi-Fi



Recording Status Indicator

Off: The built-in or extended camera is operating normally Steady red: The built-in or extended camera stopped recording (including privacy mode)/failed



FleetCam Essential Road Only - Driver Events

ADAS Features



Following Distance Warning



Forward Collision Warning



Lane Departure



Rolling Stop Sign



Pedestrian Warning

System Events



Low Voltage



Memory Error



Video Loss

Harsh Events



Harsh Cornering



Harsh Accelerating



Harsh Braking

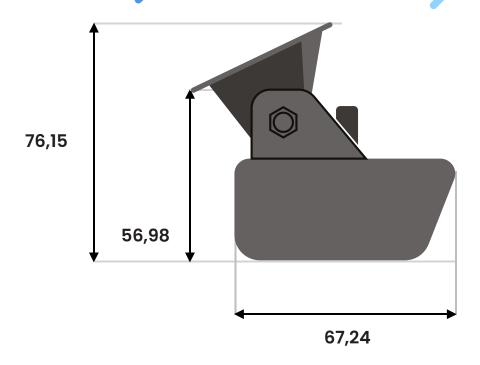
Other

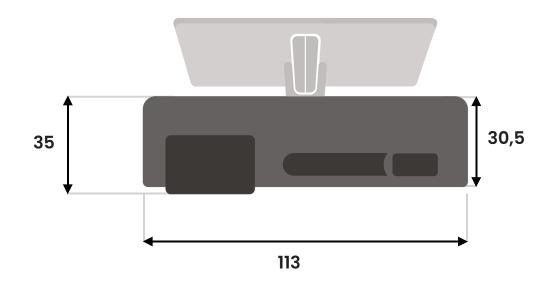


SOS/PTO Event



Dimensions (mm)





Feature Comparison Chart

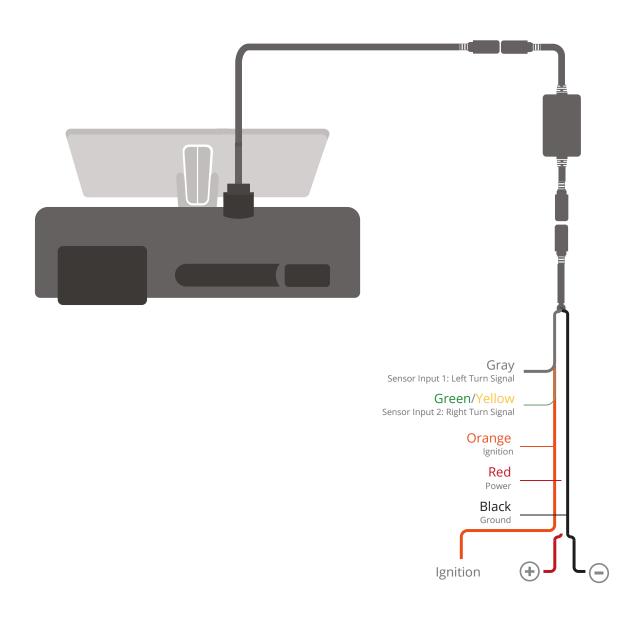




	Essential	Pro
Video recording	2-channel	Up to 5-channel
Video resolution	1080P Road	1080P Road
Field of view (fov)	106° road	140° road
Al Driver Events	YES	YES
6-Axis Accelerometer	YES	YES
GPS	High precision GNSS	High precision GNSS with dead-reckoning
Add-ons	Up to 1 external camera	Up to 4 external cameras and 1 LCD

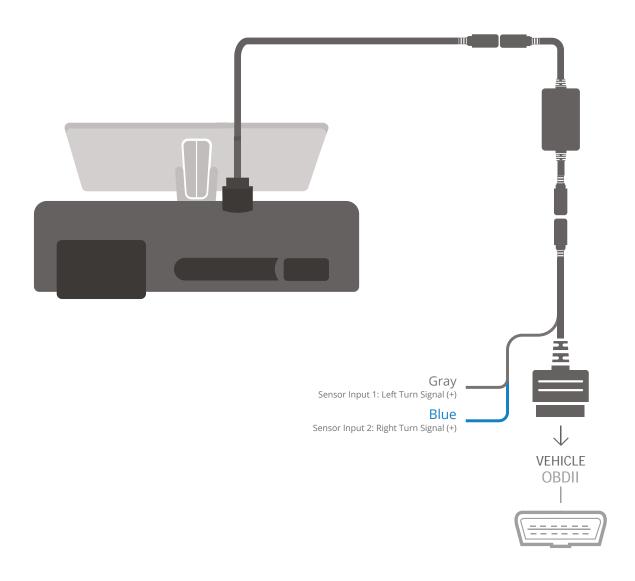
System Connection Diagrams

1. FleetCam Essential Road Only Hardwired



System Connection Diagrams

2. FleetCam Essential OBD-II



System Connection Diagrams

3. FleetCam Essential JBus

