

AI-Powered Safety for Modern Fleets



-  Built-in GPS tracking
-  Road & driver event detection
-  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 remotely when needed while also conserving vehicle battery life.

Driving has never been safer

FleetCam Essential's powerful AI detects and warns of safety events, saving lives and improving driving behavior with features like harsh driving detection, follow distance warning, 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, cellular communication, positioning module, echo cancellation, and noise canceling support, in-cab communication becomes effortless and clear.

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, 2-channel recording, and crystal-clear HD footage with excellent low-light visibility.

Specification

Positioning

GNSS	<ul style="list-style-type: none"> 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
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Network

Wi-Fi®	Support 2.4G (IEEE Std. 802.11a/b/g/n)
4G	Plug-in SIM card (Nano SIM card)
North America:	LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5
Bluetooth®	Bluetooth 4.2

Physical

Dimensions (mm)	<ul style="list-style-type: none"> Dashcam: 113.0 mm × 67.8 mm × 88.2 mm (excluding bracket) (± 2 mm) Package: 176 mm × 150 mm × 114 mm; (± 3 mm)
Weight (kg)	<ul style="list-style-type: none"> Device Only: 295g Accessories + package: 745g (±10g)

Storage & Sensor

Six-Axis Sensor	Harsh acceleration, Harsh deceleration, Harsh cornering
Environmental Light Sensor	Used for the in-cab camera, for day/night mode switching
Micro SD card	128GB eMMC + 1x 32GB microSD (upgradeable up to 1TB) (FTS Approved SD cards only)

Power

Power Supply	9–36V Range
Power Consumption	<ul style="list-style-type: none"> 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 video (2 internal channels / Support ADAS and DMS)
Video Coding	H.265
Audio Compression	G.711
Audio	Built-in MIC
Loudspeaker	Built-in speaker, power: 3W, with adjustable volume, not less than 70 dB at 1 m distance

Environment

Operating Temp.	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temp.	-40°C ~ +85°C (-40°F ~ +185°F)
Operating & 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	<ul style="list-style-type: none"> ADAS: 1080p (1920 × 1080) DMS: 1080p (1920 × 1080) Supports PAL & NTSC

Ports

I/O Port	2 input/1 output
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