POWER☉FLEET®

VIDEO TELEMATICS

VisionAI Hub: AI-Powered Dash Camera Solution

Powering best-in-class visibility into fleet safety

Powerfleet is advancing driver and fleet safety. VisionAI Hub's simple-to-use forward and dual-facing cameras are enhanced with artificial intelligence (AI). Detect unsafe driving behaviours, such as speeding, tailgating, rolling stops, harsh braking, distracted driving and mobile phone use.

VisionAI Hub provides you with the tools and insights to better manage risks to your drivers and vehicles. Empower your drivers to adopt safer driving behaviours while enhancing fleet efficiency and productivity.

1 Enrich and personalise driver coaching

Provide personalised feedback with automated in-vehicle coaching, driver scoring and live streaming.

2 Detect distracted or fatigued driving

The Driver Monitoring System (DMS) identifies and warns against dangerous events like distracted or fatigued driving.

3 Gamify your driver safety program

Recognise and reward your safest drivers and motivate others to improve their driving habits.

4 Protect drivers from legal liability

Don't let inaccurate court claims take your drivers off the road or drive up your insurance costs.

Make your fleet safer and save money with VisionAI Hub dash cameras.

Request pricing or see a demo at Fleetcomplete.com

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Optimise fleet productivity and mitigate avoidable risks

How It Works

Get smart VisionAI Hub dash cameras online and connected in minutes with plug-and-play installation. Protect your fleet with near real-time visibility to your drivers activities and experiences on the road. Capture event details like speeding and tailgating along the journey for driver coaching reviews.

Help prevent collisions or traffic violations with audible in-vehicle alerts and advanced driver assistance systems. Enable real-time driver coaching and access data driven fleet and driver safety reports to proactively monitor progress. Collision detection notifies fleet administrators immediately so they can check in on their driver and vehicle. Forward Collision Warnings alert drivers to impending collisions by detecting stopped or slowly moving vehicles ahead.

◉ Top Features

Simple installation
Plug-and-play install with forward and dual-facing cameras.

Advanced privacy and security
Strong encryption to protect your fleet asset and driver data.

Safety insights with greater context
Responsible driving habits conserve fuel and reduce maintenance costs. Vehicle health data is just a click away within the integrated Unity user experience.

AI powered video cameras
VisionAI Hubs machine learning and computer vision driver assistance and monitoring technology identify high-risk driving behaviours. It detects external factors that might put the driver at risk and alerts the driver to potential threats.

Standby recording
Record up to 10 minutes after the trip has ended and ignition is off. Ideal for proof of delivery, and recording what happens after the vehicle is parked for a short period of time.

Time lapse video retrieval
Review hours of video in minutes to efficiently locate critical footage in the event of an accident.

Capture critical events
A driver-initiated recording button to capture video of threats on the road ahead.

Intuitive web and mobile companion applications
Web-based admin view enables fleet admins to supervise drivers remotely. Mobile app enables drivers to evaluate their driving habits.

Possible collision detection with video protection
Confidently access possible collision videos every time. One minute of event footage is automatically protected and reserved, with videos prioritised and stored for up to 30 days. Use footage to help police and insurance investigators to reconstruct the accident to reduce liability, court costs and legal fees.

Remotely access live streaming video
Coach drivers in real-time while they are on the road.

Safety scorecard
A fleet safety evaluation tool that ranks drivers according to their individual safety scores. The Safety Leaderboard is visible to managers and drivers to enhance driver coaching opportunities.

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Technical Specifications

Platform Core

Operating System	Google Android™ 9.0
Development Environment	Google Android™ ADT
Processor	Qualcomm, SDM450 – 2 GHz (8 x ARM® Cortex™ A53)
RAM	2GB (Standard) / 3GB (Enhanced)
ROM	16GB (Standard) /32GB (Enhanced)
Memory Card Support	Micro SD card slot - up to 128 GB (internal)
Watchdog	SW based for application recovery • HW based for system recovery

Driver Interface

HW Keys	Multi-purpose
LEDs	1 X System status (3 color), 1 X Driver feedback
Light Sensor	Configurable for IR LED activation
Internal Microphone	High sensitivity
Internal Speaker	1 X 1W

Wireless Communication (with Integrated, Onboard internal antennas)

Cellular (Enhanced version)	• FDD 1/2/3/4/5/7/8/12/13/17/20/28 • GSM 850/900/1800/1900 • WCDMA 1/2/4/5/8 (DC-HSPA+) • 3FF, Micro SIM (Internal)
GPS	• 50 Channel, NMEA 0183, AGPS. • Satellite Systems Support: GPS, GLONASS, Beidou, Galileo
Wireless LAN	• WiFi - 802.11 b/g/n/ac 2.4/5 GHz • Dual mode, WiFi Direct
Bluetooth	V4.1 (Voice and Data) / BLE
NFC	NXP, PN547, 13.56MHz, IS15693 and IS18000-3

Technical Specifications (cont'd)

Motion Control

Motion Sensors	3D Accelerometer

Power

Internal Battery	Li-Ion 135mAh for ordered shutdown upon power-cut (*Basic, Intermediate & Enhanced models only. Model C - optional)

Mechanical

Vibration	SAE J1455 Compliant
Mechanical Shock	SAE J1455 Compliant

Integrated Cameras (not included in SmartHub-C model)

Road Facing	• 2MP, Full HD, 1080p • Low light sensitivity • 86dB dynamic range (HDR mode) • 30fps • 1100 FOV
Cabin Facing	• 2MP, Full HD, 1080p • Near Infrared sensitivity + IR LEDs • 68dB dynamic range (multiple exposure) • 120fps • 1400 FOV

Environmental

Temperature Range	• Operating: -4 °F to +158 °F (-20 °C to +70 °C) • Storage: -22 °F to +176 °F (-30 °C to +80 °C)
Humidity	95% ±5%RH, +40°C, non-condensing
IP	IP40

Technical Specifications (cont'd)

Drop	MIL-STD-810G Compliant
RoHS	RoHS II Compliant

Certifications

Standards Compliance	FCC, IC, CE, E-Mark, PTCRB

Communication Interfaces

RS-232	• 1 X RS-232 (* Basic & Intermediate models only) • 1 X RS232 for Debug
USB	• 1 X USB (Micro) • [Basic\Intermediate: 3.0 High Speed] • [Enhanced\Hub-C: USB HUB 2.0 (Host)]

Peripherals Control

GPIO	• 1Xinput(0–32V) • 1 X Open collector Output • 1 X I/O (configurable)

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