Vision AI Dashcam

3-CHANNEL 4G AI DASHCAM

PART No. SL-0001-SC

A rugged 4G AI dashcam with an integrated forward-facing camera and support for two external AHD cameras. On-device AI warns drivers of collision risk in real time, an optional driver-facing camera adds fatigue and distraction alerts, and every event is streamed and uploaded to the Vision platform.

- Integrated forward camera + 2 external AHD inputs
- On-device ADAS on a 3 TOPS AI engine
- Optional DMS camera for fatigue and distraction alerts
- Starlight front camera: full colour down to 0.01 lux
- Dual 512 GB microSD with supercapacitor protection



Integrated starlight forward camera · 2 external AHD inputs

PRODUCT MARKINGS CE FCC

3 × 1080p CHANNELS @ 30 FPS	**3 TOPS** ON-DEVICE AI	**4G LTE** LIVE VIEW & UPLOAD	**Multi-GNSS** GPS · GALILEO · GLONASS · BDS
0.01 lux STARLIGHT NIGHT VISION	**2 × 512 GB** DUAL MICROSD	**2 supercaps** POWER-LOSS PROTECTION	**9–36 V DC** 12 V & 24 V VEHICLES

Built for every commercial fleet

HGVs & tractor units · Vans & LCVs · Buses & coaches · Refuse & municipal · Tankers & bulk · Company cars

Prevent incidents
Real-time in-cab alerts tackle collision risk, fatigue and distraction before they turn into claims.

Protect your drivers
Clear, time-stamped footage helps defend drivers against false and exaggerated claims.

Fast to deploy
Automatic AI calibration and plug-in options keep installs quick.

Why Vision Telematics

- **Expert support** — Help from our specialist team
- **Commercial grade** — Built for working fleets and assets
- **One platform** — Vehicles, cameras & assets, one login
- **One partner** — Hardware, connectivity & software

Features & benefits

FEATURE — WHAT IT DOES	BENEFIT — WHAT IT MEANS FOR YOU
Forward-facing ADAS Forward collision, headway, pedestrian and lane-departure warnings from the road-facing lens.	**Fewer collisions** Drivers hear a warning in time to react, cutting rear-end and low-speed incidents and the costs that follow.
Optional driver monitoring Add an A-pillar or windscreen DMS camera for fatigue, distraction, phone, smoking and seatbelt alerts.	**Grow into DMS** Start with road-facing protection and add driver monitoring when you are ready.
Up to three 1080p channels Integrated forward camera plus two external AHD cameras for the cab, side or rear.	**The right coverage per vehicle** Specify exactly the views each vehicle needs, without overspending.
Starlight night vision The front camera records full-colour video in light levels as low as 0.01 lux.	**Evidence around the clock** Early-morning and night-time incidents are captured with the detail you need to see what happened.
Resilient dual-stream recording Two microSD cards (up to 512 GB each) store main and sub-streams; two supercapacitors protect files if power is cut.	**Footage you can rely on** Critical video survives a collision or power cut, and the lighter sub-stream keeps 4G uploads efficient.
4G live view & automatic upload Built-in 4G LTE, multi-GNSS and Wi-Fi stream live video and send event clips straight to the Vision platform.	**Act on events in minutes** Review incidents from the office as they happen — no SD-card retrieval, no vehicles off the road.

On-device AI: ADAS, DMS & driving events

ADAS — Road-facing

Forward collision FCW > 30 km/h	**Headway monitoring** HMW > 50 km/h	**Pedestrian collision** PCW 1–30 km/h	**Lane departure** LDW > 55 km/h

DMS — Driver-facing (optional DMS camera)

Eyes closed > 20 km/h	**Yawning** > 20 km/h	**Distraction** > 20 km/h	**Phone use** > 20 km/h	**Smoking** > 20 km/h
No seatbelt > 20 km/h	**No driver** > 20 km/h	**Camera obstructed** > 20 km/h	**Face ID**	

DRIVING EVENTS — 6-axis motion sensor

Harsh braking > 20 km/h	**Harsh acceleration** > 20 km/h	**Sharp turn** > 20 km/h	**Collision** Any speed	**Rollover** Any speed

Minimum working speed shown for each alert. DMS alerts require the optional A-pillar or windscreen DMS camera.

Technical specification

Processing & system

Processor	Quad-core 64-bit ARM application processor with dedicated microcontroller
AI engine	Neural processing unit (NPU), up to 3 TOPS — AI on up to 3 cameras
Memory	4 Gb DDR3 RAM · 256 MB NAND flash
Operating system	Embedded Linux, English interface

Cameras & video

Integrated camera	Forward-facing (ADAS) starlight camera
Channels	Up to 3 — 1 integrated + 2 external AHD cameras
Recording	Up to 3 × 1080p @ 30 fps · PAL (default) / NTSC
Compression	H.264 / H.265, simultaneous main and sub-stream
External camera input	4-pin aviation connector, AHD — 1080p default, 720p optional
Channel allocation	CH1 ADAS (audio + video) · CH2 DMS · CH3 video
Audio	1 × input, 1 × output

Connectivity & positioning

Cellular	4G LTE (FDD/TDD-LTE), with 3G fallback where available
SIM	1 × micro SIM · eSIM optional
Wi-Fi	IEEE 802.11 b/g/n/ac
GNSS	GPS, Galileo, GLONASS and BeiDou
Motion sensor	6-axis IMU with 100 Hz raw-data storage

Storage & interfaces

Storage	2 × microSD, up to 512 GB each
Power-loss protection	2 × built-in supercapacitors
Digital I/O	3 × input, 1 × output
Serial / USB	1 × RS232 · 1 × USB Type-C
Status LEDs	Power · 4G · GPS · Recording

Power & physical

Input voltage	9–36 V DC, with under-voltage, short-circuit and reverse-polarity protection
Power modes	Delayed shutdown, sleep, scheduled power-on, remote wake-up
Dimensions	119.7 × 45.8 × 75.2 mm
Weight	368 g
Housing	Aluminium alloy + PC/ABS (UL94 V-0)
Temperature	Operating –20 °C to +70 °C · storage –40 °C to +85 °C
Certifications	CE · FCC

In the box & options

In the box

- Vision AI Dashcam
- Windscreen bracket and 3M adhesive pad
- Power and I/O wiring harness
- 6 × cable ties
- Allen key

Options & accessories

SL-0007-SC	A-pillar DMS camera (IR), 1080p
SL-0008-SC	Windscreen DMS camera (IR), 1080p
SL-0009-SC	Side camera (IR), 1080p, IP69K
SL-0010-SC	Rear camera (IR), 1080p, IP69K
SL-0011-SC	Mini dome camera (IR), 1080p
SL-0013-SC	Heated anti-fog camera, IP69K
SL-0021-SC	OBD-II plug-in power harness
SL-0018-SC	AHD camera extension cable (3–30 m)
SL-0022/28-SC	Industrial microSD cards, 64–512 GB

On the Vision platform

Live view

Stream any channel over 4G, on demand, from the Vision platform.

Automatic event video

Alerts and G-sensor events upload with the clip attached.

Tracking & trips

Live position, journeys and speed from built-in GNSS.

Coaching insight

Spot repeat behaviours and coach drivers with real footage.

Ready to put the Vision AI Dashcam to work?

Talk to our team for a demonstration, a tailored quotation or help choosing the right configuration. We supply and support everything — hardware, connectivity and the Vision platform — from one partner.

Book a demo

Request a quote

Scan for the product page

CALL
0800 020 9339

EMAIL
info@visiontelematics.com

WEB
visiontelematics.com

VISIT
22 High Street, Epworth, Doncaster DN9 1ET, UK

Vision Telematics Limited · Registered in England & Wales No. 15637894 · VAT No. GB 466 8495 33 · 22 High Street, Epworth, Doncaster, DN9 1ET, United Kingdom
© 2026 Vision Telematics Limited. All rights reserved. Specifications are subject to change without notice and may vary by region and configuration. Images are for illustration only. Vision Telematics accepts no responsibility for errors or omissions.