Vision AI Dashcam Pro

6-CHANNEL 4G AI DUAL-FACING DASHCAM

PART No. SL-0002-SC

Our flagship 4G AI dashcam combines road- and cabin-facing lenses in one compact, rugged unit. On-device AI warns drivers about collision risk, fatigue and distraction as it happens, while up to six 1080p channels capture clear evidence from every side of the vehicle — streamed live and uploaded automatically to the Vision platform.

- **Road- and cabin-facing lenses in one easy-to-fit unit**
- **Up to 6 × 1080p channels — front, cabin, sides, rear and load**
- **On-device ADAS and driver monitoring (3 TOPS AI engine)**
- **Starlight front camera: full colour down to 0.01 lux**
- **Dual 512 GB microSD with supercapacitor protection**



Integrated road- and cabin-facing lenses · bright-red panic button

PRODUCT MARKINGS CE FCC

6 × 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, multi-angle footage helps defend drivers against false and exaggerated claims.

Fast to deploy
A single dual-lens unit, automatic AI calibration and optional OBD-II power 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.
Driver monitoring (DMS) The cabin lens detects eyes closing, yawning, distraction, phone use, smoking and an unfastened seatbelt.	**Safer, more attentive drivers** Risky behaviour is corrected in the moment and captured for coaching, so habits improve fleet-wide.
Up to six 1080p channels Two integrated lenses plus up to four external AHD cameras for the sides, rear and load area.	**The full picture, every time** Multi-angle footage settles disputes quickly and protects drivers from false or exaggerated claims.
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

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. Face ID identifies the driver using the cabin lens.

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 6 cameras
Memory	8 Gb DDR3 RAM · 512 MB NAND flash
Operating system	Embedded Linux, English interface

Cameras & video

Integrated cameras	Road-facing (ADAS) and cabin-facing (DMS) lenses
Channels	Up to 6 — 2 integrated + up to 4 external AHD cameras
Recording	Up to 6 × 1080p @ 30 fps · PAL (default) / NTSC
Compression	H.264 / H.265, simultaneous main and sub-stream
Night vision	Starlight front camera, full colour to 0.01 lux
External camera input	4-pin aviation connector, AHD — 1080p default, 720p optional
Channel allocation	CH1 ADAS (audio + video) · CH2 DMS · CH3–6 video
Audio	1 × input, 1 × output

Connectivity & positioning

Cellular	4G LTE Cat 4 (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 & resilience

Storage	2 × microSD slots, up to 512 GB each
Recording streams	Main stream and sub-stream stored simultaneously
Power-loss protection	2 × built-in supercapacitors

Interfaces & controls

Digital I/O	3 × input, 1 × output
Serial	1 × RS232
USB	1 × USB Type-C
Status LEDs	Power · 4G · GPS · Recording
Panic button	Integrated, bright-red, driver-accessible
Privacy	One-touch privacy mode and cabin-lens privacy cover

Technical specification (continued)

Power

Input voltage	9–36 V DC (12 V and 24 V vehicles)
Circuit protection	Under-voltage, short-circuit and reverse-polarity
Power modes	Delayed shutdown, sleep after ignition-off, scheduled power-on, remote wake-up

Physical & environmental

Dimensions	136.4 × 56.5 × 78.7 mm
Weight	444 g
Housing	Aluminium alloy + PC/ABS (UL94 V-0), optimised heat dissipation
Temperature	Operating –20 °C to +70 °C · storage –40 °C to +85 °C
Mounting	Windscreen bracket with 3M adhesive pad
Certifications	CE · FCC

In the box & options

In the box

- Vision AI Dashcam Pro
- Windscreen bracket with 3M adhesive pad
- Cabin-lens privacy cover
- Power and I/O wiring harness
- 6 × cable ties
- 2 × Allen keys

Options & accessories

SL-0007-SC	A-pillar DMS camera (IR), 1080p
SL-0009-SC	Side camera (IR), 1080p AHD, IP69K
SL-0010-SC	Rear camera (IR), 1080p AHD, IP69K
SL-0011-SC	Mini dome camera (IR) for cabin or load area
SL-0013-SC	Heated anti-fog camera (IR), IP69K
SL-0019-SC	4-channel AHD camera expansion cable
SL-0018-SC	AHD camera extension cable (3–30 m)
SL-0021-SC	OBD-II plug-in power harness
SL-0022/28-SC	Industrial microSD cards, 64–512 GB

Ready to put the Vision AI Dashcam Pro 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

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