Vision AI MDVR 8

8-CHANNEL 4G AI MOBILE DVR

PART No. SL-0004-SC

A rugged 4G AI mobile DVR for complete multi-camera coverage of HGVs, buses and specialist vehicles. Up to eight 1080p cameras, on-device ADAS, driver monitoring and blind-spot detection of pedestrians and cyclists, plus SSD and dual microSD storage — all streamed and managed on the Vision platform.

- Up to 8 × 1080p AHD cameras with audio
- ADAS, DMS and blind-spot VRU detection on a 3 TOPS NPU
- SSD up to 2 TB plus 2 × 512 GB microSD
- RS232, RS485, CAN and 9 digital inputs
- 4 supercapacitors and tamper-proof front panel lock



8 × 1080p channels · SSD and dual microSD storage

PRODUCT MARKINGS CE FCC

8 × 1080p
AHD CHANNELS + AUDIO

3 TOPS
ADAS · DMS · BSD

2 TB SSD
+ 2 × 512 GB MICROSD

4G Cat 4
LIVE VIEW & UPLOAD

RS232 · RS485
+ 2 × CAN

4 supercaps
POWER-LOSS PROTECTION

Locked panel
TAMPER-PROOF

9–36 V DC
12 V & 24 V

Built for larger vehicles

- HGVs & tractor units
- Buses & coaches
- Refuse & municipal
- Tankers & bulk
- Construction vehicles
- Specialist vehicles

See every angle
Up to eight cameras remove blind spots around large vehicles.

Protect road users
Blind-spot detection warns of pedestrians and cyclists.

Evidence you can rely on
SSD plus dual microSD keep footage safe.

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
Up to 8 × 1080p channels Forward, rear, side, cabin and cargo cameras, each with audio, plus an HD monitor output.	**Complete 360° visibility** Eliminate blind spots during lane changes, turns and reversing.
Blind-spot VRU detection AI detects pedestrians, cyclists and vehicles in critical blind spots.	**Protect vulnerable road users** Fewer low-speed collisions in dense urban and depot environments.
ADAS & driver monitoring Forward-collision and lane-departure alerts plus fatigue, distraction, phone, smoking and seatbelt detection.	**Safer drivers, fewer claims** Real-time alerts in the cab and footage for coaching.
SSD + dual microSD storage 2.5″ SATA SSD up to 2 TB plus two microSD cards up to 512 GB each.	**Long-duration, resilient recording** Footage for compliance, incidents and insurance claims.
Rich vehicle interfaces 9 digital inputs, 2 outputs, 2 × RS232, 1 × RS485 and 2 × CAN.	**Integrates with the whole vehicle** Trigger recording from indicators, doors and PTO, and connect sensors.
Tamper-proof design Locked front panel, aluminium housing and 4 supercapacitors.	**Footage that cannot be lost** Media is protected from tampering and sudden power loss.

Technical specification

Processing & system

Processor	Quad-core 64-bit ARM processor with real-time H.264/H.265 encode/decode
AI engine	NPU up to 3 TOPS — ADAS, DMS and blind-spot detection
Memory	8 Gb DDR3 RAM · 512 MB NAND flash
Operating system	Embedded Linux, English interface

Video

Channels	8 × AHD channels (audio + video per channel)
Resolution	Up to 8 × 1080p · PAL (default) / NTSC
Compression	H.264 (default) / H.265
Camera interface	4-pin M12 aviation · 1080p default, 720p optional
Video output	1 × AHD monitor output
Audio	External microphone input and speaker output

Technical specification (continued)

Connectivity & positioning

Cellular	4G LTE Cat 4 (FDD/TDD-LTE), 3G fallback where available
SIM	1 × micro SIM · eSIM optional
Wi-Fi	IEEE 802.11 b/g/n/ac
GPS	Supported, external antenna
Antenna ports	GPS · 4G main · 4G diversity · Wi-Fi (FAKRA)
Motion sensor	6-axis IMU

Storage

SSD/HDD	1 × 2.5″ SATA bay, up to 2 TB
microSD	2 × slots, up to 512 GB each
Power-loss protection	4 × built-in supercapacitors

Interfaces

Digital I/O	9 × inputs · 2 × outputs
Serial	2 × RS232 · 1 × RS485
CAN	2 × CAN bus
Other	1 × USB 2.0 · 1 × 5 V output · 2 × multi-function I/O · LED indicators

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	170 × 192 × 72 mm
Weight	1,655 g
Housing	Aluminium alloy, tamper-proof front panel lock
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 MDVR 8
- Power harness
- External GPS, 4G (main + diversity) and Wi-Fi antennas
- Front-panel security key

Options & accessories

SL-0005-SC	ADAS forward-facing camera
SL-0006-SC	Mini internal forward camera
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-0029/31-SC	Industrial SSD, 512 GB–2 TB
SL-0015-SC	7″ quad HD monitor

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 MDVR 8 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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