

M8

AI-Powered 4G MDVR



Product Introduction

The **M8** is a rugged, AI-powered 4G MDVR designed for demanding fleet operations. Supporting up to eight 1080p video channels, eight concurrent AI algorithms, and an optional AHD monitor, the M8 delivers comprehensive situational awareness for freight and heavy-duty engineering vehicles. Its core capabilities include ADAS alerts for forward collision risks, DMS alerts for detecting driver fatigue or distraction, and blind-spot warnings for pedestrians, cyclists, and motorcyclists from both side and front-facing cameras.

Designed for high-performance in harsh environments, the M8 features industrial-grade thermal management and a highly durable architecture, ensuring reliable operation over extended lifespans. Storage flexibility includes SSD/HDD or dual microSD options, offering redundant backup to safeguard critical video evidence. Combined with global 4G connectivity for live tracking and data uploads, the M8 provides fleet managers with a powerful, future-ready platform for safety, visibility, and compliance.

Product Highlights

 **Proactive Fleet Safety:** Advanced ADAS, DMS, and blind-spot detection actively alert drivers to prevent accidents caused by distraction, fatigue, or vulnerable road users (VRUs) like pedestrians, cyclists, and motorcyclists.

 **Hassle-Free Setup:** Auto-calibration and modular camera design reduce setup time and streamline field servicing.

 **Unwavering Reliability:** Four supercapacitors protect critical video data during sudden power loss or voltage drops.

 **Built to Last:** Rugged, industrial-grade hardware with efficient thermal management ensures long-term durability in harsh fleet environments.

 **Global Real-Time Visibility:** CAT4 4G connectivity provides live video, GPS tracking, and instant data access anywhere in the world.

 **Powerful AI Processing:** High-performance SoC with a dedicated 3.0 TOPS NPU enables real-time analysis across multiple channels.

 **Crystal-Clear Multi-Channel Recording:** Capture up to 8 simultaneous 1080p HD video streams at 30fps for complete situational awareness.

 **Ample & Secure Storage:** Flexible options including SSD/HDD and dual microSD cards, with intelligent backup for main and sub-stream video.

 **Smart Power Management:** Sleep mode conserves power after ACC-off while maintaining remote tracking and wake-up capability.

 **AHD Video Output:** Connects to external HD monitors for enhanced driver visibility and in-cab situational awareness.

Type	Function	Alert Sound	Working Speed
Forward ADAS	FCW	Collision alert!	Above 30km/h
	HMW	Maintain safe distance.	Above 50km/h
	PCW	Pedestrian Ahead!	1~ 30km/h
	LDW	Lane departure!	Above 55km/h
Driver-Facing DMS	Driver Eye Closed	Caution: Driver Appears Tired	Above 20km/h
	Driver Yawning	Caution: Driver Appears Tired	Above 20km/h
	Note: Current system treats eye closure and yawns as the same event type, but with distinct alert sounds.		
	Driver Distraction	Caution: Driver distraction	Above 20km/h
	Driver Smoking	Alert: Driver is smoking	Above 20km/h
	Driver Phone Use	Alert: Driver phone use detected	Above 20km/h
	Seat Belt Non-Fastened	Warning: Seat belt not fastened	Above 20km/h
	No Driver Detected	Warning: No driver detected	Above 20km/h
Aggressive Driving Detection	Camera Obstructed	Warning: DMS camera is obstructed	Above 20km/h
	Hard Braking		Above 20km/h
	Harsh Acceleration		Above 20km/h
	Sharp Turn		Above 20km/h
	Collision		Above 0km/h
	Rollover		Above 0km/h

Product Specifications

Brand	SelectCam AI
Model	M8
Operating System	Linux
UI Language	English
MCU	ARM® Cortex®-M4
CPU	ARM® quad-core Cortex™ A53 with real-time H.264/H.265 encode/decode
NPU	Neural network acceleration engine, up to 3 TOPS
RAM	8Gb DDR4
ROM	8GB eMMC
Mobile Networks	TDD-LTE/FDD-LTE/EVDO/TD-SCDMA/WCDMA
eSIM	Optional
WiFi	802.11b/g/n/ac compliant
GPS Positioning	Supported
IMU	6-axis gyro
Storage	1 × 2.5" SATA SSD/HDD (max 2TB) 2 × microSD cards (max 512GB each)
Camera Channels	8 channels (Audio + Video per channel)
Video Compression	H.264 (by default) / H.265
Supported Resolutions	Up to 8 × 1080p AHD channels

Video Standard	PAL (default) / NTSC
AHD Cameras Interface	4-pin M12 aviation connector Default resolution 1080p (optional 720p) Channels 1–4 adjustable individually, channels 5–8 must be uniform.
Video Output	1 channel for external AHD monitor
Audio I/O	Supports external microphone input and external speaker output; each AHD camera channel also supports audio input.
I/O Interfaces	Digital Inputs: 9 Digital Outputs: 2 RS232 Ports: 2 RS485 Port: 1 CAN Bus Ports: 2 5V Output: 1 MIC Input: 1 Speaker Output: 1
Other Interfaces	Micro SIM Card Slot: × 1 MicroSD Card Slots: × 2 HDD/SSD Bay: × 1 USB 2.0 Port: × 1 GPS Fakra-C: × 1 4G MAIN Fakra-D: × 1 4G DIV Fakra-A: × 1 WiFi Fakra-B: × 1 Power Harness: × 1 Multi-function I/O A: × 1 Multi-function I/O B: × 1
Power Input	9V – 36V DC
Power Protection	Built-in safeguards for undervoltage, short-circuit, and reverse polarity

Supercapacitor	4 built-in supercapacitors
Work Modes	• Normal operation • Delayed shutdown • Sleep mode • Scheduled power-on • Remote wake-up
LED Indicators	Power Status: 1 4G Communication: 1 GPS Positioning: 1 Video Recording: 1
Front Panel Lock	Tamper-proof front panel lock
Casing Material	Aluminum Alloy
Operating Temperature	-20° C to +70° C
Storage Temperature	-40° C to +85° C
Dimensions	170mm × 192mm × 72mm
Net Weight	1655g

Standard

- M8 MDVR: 1
- Power Harness: 1
- External GPS Antenna: 1
- External 4G MAIN Antenna: 1
- External 4G DIV Antenna: 1
- External WiFi Antenna: 1
- Front Panel Security Key: 1

Optional

- Multi-function I/O harness A
- Multi-function I/O harness B (with an in-cab buzzer)
- ADAS camera
- Mini internal forward camera
- A-pillar DMS camera
- Windshield DMS camera
- Side Camera
- Rear camera
- Mini dome camera
- Heated anti-fog camera
- MicroSD card
- HDD/SSD
- AHD camera extension cable

Front Panel



Media Bay



Back Panel



About SelectCam AI

SelectCam AI is pioneering the future of commercial fleet safety with accessible, high-performance AI video telematics hardware. We design and engineer industrial-grade 4G AI dashcams, fleet MDVR systems, and vehicle camera solutions built for real-world reliability at scale—not consumer-grade devices repurposed for commercial fleets. Based in Shenzhen—the global hub of advanced manufacturing—we leverage a robust supply chain ecosystem and deep engineering expertise to deliver a cost-effective fleet video telematics portfolio trusted by logistics and transportation operators worldwide.