IN-CAR VIDEO SYSTEM

In your vehicle out in the field, your eyes are your first line of defense. You're trained to constantly scan your surroundings for threats – to yourself and to the public. It's intense, highly demanding work. But with our technology, you can lighten that load and heighten your situational awareness like never before.

The M500 in-car video system is a groundbreaking leap forward in awareness, safety and efficiency. It's not just an eye recording what it sees, it's a brain analysing everything around you. Powerful video analytics – driven by industryleading 4k video – constantly process your surroundings, alerting you in real time to threats and search targets.

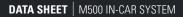
An ultra-rugged, tamperproof design withstands the toughest conditions. An intuitive interface is easy to use in the most demanding situations. And the M500 seamlessly coordinates with the mission critical technology you already count on – from body-worn cameras, to evidence management platforms.

When you're only as safe as what you can see, the M500 gives you real time awareness of what's happening around you. It's a watchtower calling out what you need to know. A partner that takes you to a new level of calm and collected. Because the more you know what's out there, the more you can keep yourself and the people you serve safe.



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FEATURES



M500 CORE PROCESSOR



M5F FRONT CAMERA



M5P CABIN CAMERA



M5R REAR CAMERA



M5D CONTROL PANEL

M500	KEY	FEAT	URES

Front Camera Recording	Support for high resolution front camera
Cabin Camera Recording	Support for daylight and infrared cabin camera with integrated microphone
Cabin Microphone Recording	Support for discreet cabin microphone x2
Rear Camera Recording	Support for high resolution rear camera
USB Drive Support	Support for configuration and firmware updates via removable USB drive
USB Evidence Backup	Removable USB Drive can be used for storing and offloading video evidence*
Auto-record Triggers	System can be triggered to record by vehicle speed, lights, siren, aux input x2
Auto-stop Record	Configurable maximum length of video recordings
GPS Support	Support for GPS location information and timing reference
WiFi Event Upload	System can upload events to DEMS solution via Wi-Fi access point
LTE/WiFi Router Upload	System can upload events via a Sierra Wireless LTE/Wi-Fi modem/router
Encryption	Video evidence is encrypted at rest and in transit
Officer Settings	User access to system preferences to adjust display brightness, etc
Event Playback	Video and audio can be played back on the control panel / display
Record-after-the-Fact™	Events can be recovered from the system even if no recording was initiated

Remote Upgrade	System firmware can be upgraded over a wireless link
Dual-stream Recording	System can record 2 streams and select upload resolution based on event tagging
Covert Mode	System can be configured to record with no visual or audio indicators
Dark Mode	System can be configured to turn off screen, and button backlights
State Capture	System can log key parameters for debug purposes
Impact Detection	System can recognise vehicle impact and automatically start recording
Internal UPS	System can self-power for several seconds in case of vehicle collision / power failure
License Plate Recognition	System can read number plates and interface with Vigilant LEARN database
Back Seat Occupancy Detection	Cabin camera will automatically record when a human is detected in back seat*
Wide And Cropped Front Camera Views	System will capture panoramic and detailed views (at 2 resolutions each)
Synchronised Playback	Synchronised Playback Support for Synchronised playback in Management platform
Live-streaming	Live-streaming Video and audio streaming to Management platform*

*Feature not supported at launch

CORE PROCESSOR





M500 CORE PROCESSOR KEY FEATURES

Form Factor	Single DIN		Lights, sirer
Dimensions (H x W x D)	180 x 49 x 171 mm	Recording Triggers	impact/ cra microphone
Weight	1.4 kg	Storage	Dual drive a
Operating Temperature	-30°C to +65°C	Pre-Event	None, 15 se sec, 1 min,
Mounting Option	Overhead (vehicle-specific brackets) or universal mount		2 min, 3 mir Record-Afte
Recording Media (Internal)	1 TB automotive-grade solid state drive	Redundancy	configurable
Recording Media (Removable)	128 GB USB Drive*		Dependent resolution, f
GPS	Integrated	Recording	1080p@30f 4.5GB per h
Crash Detection	6-axis sensor	Capacity	, 720p@30fp 2.25GB per
Additional Input / Outputs	USB, Ethernet, wired microphone (x2), trigger interface (2 AUX inputs), wireless microphone (x2), powered ethernet (x4)*		480p@30fp 1GB per hou 23.4MB per
	Wireless 802.11 router, optional	Wi-Fi	Wi-Fi, LTE/V
Video Transfer Methods	WiFi or all-in-one LTE/Wi-Fi Router, Ethernet, USB*	Security Cabin Camera	FIPS-140-2
Max Camera Capacity	Up to 5 cameras (Initial release: 2)	Audio	(digital audi
Resolutions	1920x1080p, 1280x720p, 864x480p (dual stream, configurable), with configurable high/medium/low bitrate		
Frame Rate	30, 15, 10, & 5 fps (configurable)		
Multiple Resolution Encoding	Records two resolutions simultaneously (patented): 1080p/720p, 1080p/4080p, or 720p/480p		*****
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Recording Triggers	Lights, siren, AUX triggers (x2), impact/ crash, speed, wireless microphone, backseat occupancy
Storage	Dual drive architecture*
Pre-Event	None, 15 sec, 30 sec, 45 sec, 90 sec, 1 min, 2 min, 3 min, 5 min, or 10 min
Redundancy	Record-After-The-Fact (patented, configurable)
Recording Capacity	Dependent on recording resolution, frame rate and cameras connected: Video 1080p@30fps High Quality = 4.5GB per hour per stream 720p@30fps High Quality = 2.25GB per hour per stream 480p@30fps High Quality = 1GB per hour per stream Audio 23.4MB per hour per stream
Wi-Fi	Wi-Fi, LTE/Wi-Fi routers
Security	FIPS-140-2 compliant encryption
Cabin Camera Audio	Integrated MEMs microphone (digital audio over coax)

*Feature not supported at launch





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Dimensions (H x W x D), including bracket	43 x 40 x 69 mm
Weight	85.4 g
Operating Temperature	-30°C to +65°C
Connection	Bayonet-locking HDBNC for power and data
Aspect Ratio	Electronic panoramic view (simultaneous wide and cropped streams)
Horizontal Field of View	Wide panoramic stream: 102/119° with/without dewarp Cropped stream: 51/59.5° with/without dewarp
Low Light Performance	Below 0.1 lux
Sensor Resolution	3840x1920 pixels
Sensor Technology	8MP, BL-CMOS (backlit CMOS)
Sensor Area	2.5 x 4.3 mm
Mounting	Windshield puck or ball mount

M5F





CABIN CAMERA



M5P CABIN CAMERA KEY FEATURES

Dimensions (H x W x D)	113 x 48 x 39 mm
Weight	150 g
Operating Temperature	-30°C to +65°C
Connection	Single HD-BNC connection for power and data
Resolution	1920x1080
Viewing Angle	108° (horizontal)
Low Light Performance	0 lux (infrared illumination)
Infrared Illumination	940nm, not visible
Audio	Integrated MEMs microphone (digital audio over coax)
Environmental Protection	IP54, MIL-STD 810G
Mounting	Tamperproof screws or zip ties, 180-degree rotation



REAR CAMERA





M5R REAR CAMERA KEY FEATURES

Dimensions (H x W x D)	70 x 65 x 41 mm
Weight	135 g
Operating Temperature	-30°C to +75°C
Connection	Single HD-BNC connection for power and data
Resolution	1920x1080 at 30 fps
Viewing Angle	108o (wide view)
Low Light Performance	0.07 lux
Sensor Technology	СМОЅ
Mounting	Variable adjustment mount (ball and socket)
Environmental Protection	









M5D CONTROL PANEL KEY FEATURES

Dimensions (H x W x D)	110 x 144 x 36 mm
Weight	30g
Operating Temperature	-30°C to +65°C
Connection	Single HD-BNC connection for power and data
Screen Size	5" diagonal
Screen Resolution	1920x1080
Screen Brightness	600 nits
Touchscreen Technology	Capacitive multi-touch
Dedicated Controls	Power, home, record, stop, cameras, display
Mounting	B-size RAM mount
Other	Silicone overmold for secure grip



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WARRANTY

Comprehensive 12-month product warranty included. Warranty may be optionally extended to 5 years at additional cost.

For more information, please visit www.motorolasolutions.com/M500

Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

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