M500

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 analyzing everything around you. Powerful video analytics—driven by industry-leading 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 cameras, to command centers and evidence management.

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.



FEATURES



CORE PROCESSOR



FRONT CAMERA



CABIN CAMERA



CONTROL PANEL



HIFI MICROPHONE

SCAN. ANALYZE. BEACT



M500 KEY FEATURES

	Front Camera Recording	Support for front camera
	Cabin Camera Recording	Support for daylight and infrared cabin camera with integrated microphone
	Cabin Microphone Recording	Support for discreet cabin microphone x2
	Smart Power Switch (SPS)	Power and/or connectivity for MDC, LTE/ WiFi router, and V300 WiFi dock
	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
	Group Recordings	System can initiate group recordings with body cameras (V300 only)
	GPS Support	Support for GPS location information and timing reference
	WiFi Event Upload	System can upload events to DEMS solution via WiFi access point
	LTE/WiFi Router Upload	System can upload events via a Sierra Wireless LTE/WiFi 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 recognize 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 license 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)
Synchronized Playback	Support for synchronized playback in EvidenceLibrary and CommandCentral Evidence
HiFi Microphone Support	System supports up to 2x portable wireless microphones
Live-streaming	Video and audio streaming to CommandCentral Aware*
EvidenceLibrary Support	System can upload events to Evidence Library 5 or EvidenceLibrary.com
CommandCentral Evidence Support	Events can be uploaded to CommandCentral Evidence

^{*}Feature not supported at launch



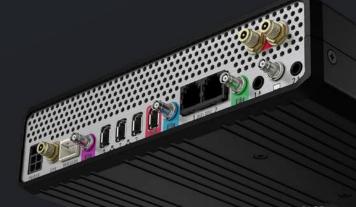




M500 CORE PROCESSOR KEY FEATURES

7.0 x 1.9 x 7.7 (180 x 49 x 171 mm)
7.0 X 1.3 X 7.7 (100 X 43 X 171 IIIIII)
3.1 lb (1.4 kg)
-30°C to +65°C (-22°F to +149°F)
Overhead (vehicle-specific brackets) or universal mount
1TB automotive-grade solid state drive
128GB USB Drive*
Integrated
6-axis sensor
USB, Ethernet, wired microphone (x2), trigger interface (2 AUX inputs), wireless microphone (x2), powered ethernet (x4)*
Wireless 802.11 router, optional WiFi or all-in-one LTE/WiFi Router, Ethernet, USB*
Up to 5 cameras (Initial release: 2)
1920x1080p, 1280x720p, 864x480p (dual stream, configurable), with configurable high/medium/low bitrate
stream, configurable), with configurable
stream, configurable), with configurable high/medium/low bitrate

	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
	WiFi	WiFi, LTE/WiFi routers
	Security	FIPS-140-2 compliant encryption
	Cabin Camera Audio	Integrated MEMs microphone



*Feature not supported at launch

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FRONT CAMERA





M500 FRONT CAMERA KEY FEATURES

Dimensions (H \times W \times D), including bracket	1.7 x 1.6 x 2.7 in (43 x 40 x 69 mm)
Weight	2.68 oz (85.4 g)
Operating Temperature	-30°C to +65°C (-22°F to +149°F)
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)





M500 CABIN CAMERA KEY FEATURES

Dimensions (H x W x D)	4.5 x 1.9 x 1.5 in (113 x 48 x 39 mm)
Weight	5.3 oz (150 g)
Operating Temperature	-30°C to +65°C (-22°F to +149°F)
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)







M500 CONTROL PANEL KEY FEATURES

Dimensions (H x W x D)	4.3 x 5.7 x 1.4 x in (110 x 144 x 36 mm)
Weight	0.7 lb (0.3 kg)
Operating Temperature	-30°C to +65°C (-22°F to +149°F)
Connection	Single HD-BNC connection for power and data
Screen Size	5" diagonal
Screen Resolution	1920x1080 MOTOROLA
Screen Brightness	600 nits
Touchscreen Technology	Capacitive multi-touch Home
Dedicated Controls	Power, home, record, stop, cameras, display
Mounting	B-size RAM mount
Other	Silicone overmold for secure grip Review Status Transfer Login Record After Audio Settings Utilities Oselav Oselav

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HIFI MICROPHONE





M500 HIFI MICROPHONE KEY FEATURES

Dimensions (H x W x D), Microphone 3.0 x 2.1 x 1.1 in (75 x 53 x 28 mm), not including clip

Dimensions (H x W x D), Charging Dock 3.1 x 3.0 x 2.0 in (80 x 75 x 51 mm)

Dimensions (H x W x D), Microphone in Charging Dock 4.2 x 3.0 x 2.0 in (108 x 75 x 51 mm)

Weight (Transmitter) 3.0 oz (85 g

Weight (Charging Dock) 4.5 oz (128 g)

Operating Temperature -25°C to $+65^{\circ}\text{C}$ (-13°F to $+149^{\circ}\text{F}$)

Frequency Response 200-10,000 Hz +/- 3 dB

Wireless Link Frequency Band 2.4 GHz

Audio Compression BV32







NOW OBSERVATION BECOMES ACTION

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



