

Brochure

MOTOROLA



Evidence at your fingertips

M500 in car video system



Evidence at your fingertips

As policing evolves, so do the demands on in car video systems — requiring more clarity, more connectivity, and more control.

Say hello to the M500 System. An in car video solution that rises to meet these demands, offering your agency the power of choice with a portfolio that delivers complete protection and enhanced situational awareness through the M500 and M500E.

Built to tackle today's toughest public safety challenges, the M500 System provides the flexibility and performance agencies need to stay ahead.

Whether you require expansive storage and multiple camera support with the M500, or a compact control head and simplified installation with the M500E, our solutions provide superior reliability and intuitive control tailored to meet your agency's needs. Seamlessly integrated into our expansive ecosystem and designed to simplify your user experience, our system delivers a comprehensive, unified solution, allowing agencies worldwide to tailor their in car systems with the flexibility and reliability they require.





Complete view, complete protection

Proactively safeguard your agency with advanced tools that capture a complete and accurate record of events.

M500 and M500E



Human presence detection sensor*

Automatically detects motion in the backseat of a response vehicle, activating the cabin camera to ensure critical moments are recorded and documented- eliminating the need to manually sift through hours of inactive footage.



Record-After-the-Fact™ evidence recovery technology

Ensure every piece of evidence is captured with pre and post-recording, which captures events both before and after active recording begins – providing increased situational awareness, security, and evidence, especially during high-pressure scenarios.



License plate recognition*

Enjoy reliable LPR that delivers actionable data and real-time alerts, optimized for your needs and backed by secure applications. Choose our proven technology for unmatched performance and flexible deployment, turning vehicle data into insightful action.

*Upcoming feature for M500E



Intuitive control, superior reliability

Built to maintain performance and intuitive operation in critical moments, the M500 System delivers durability and reliability, ensuring consistent results every time.



M500

Industrial grade touchscreen

Maximize situational awareness and optimize response times through a seamless and modern interface designed for critical operations.



M500E

SmartControl App

Designed for intuitive operation, so you can stay focused on the job and stay aware of your surroundings.



M500 and M500E

Offload functionality

Reliably transfer video evidence at a moment's notice using Wi-Fi or LTE, enhancing efficiency and ensuring immediate access to crucial evidence.



Seamless integration, simplified operations

The M500 and M500E seamlessly connect to your other Motorola Solutions products, helping you build a personalized ecosystem that optimizes your workflow and integrates all your critical operations.



Leverage your existing Motorola Solutions investments and streamline your operations through the seamless integration of the M500 System with body cameras and evidence management software for a clear and reliable evidence capture process.

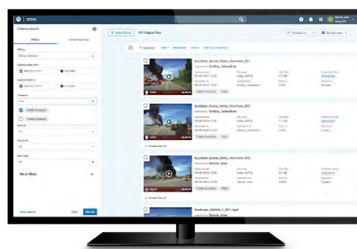
Integrations



SVX VRSM's and V700 and VB400 body cameras

Your best witness

Capture multiple perspectives from your video remote speaker microphones, body cameras, and in car video systems with the flip of a switch.



Command Central DEMS

Maximize the value of your digital evidence

Experience an end-to-end digital evidence management system that gives you full control of the evidence you collect from the moment a 9-1-1 call comes in until the case is closed.



M500 and M500E in car video system

Don't miss a moment

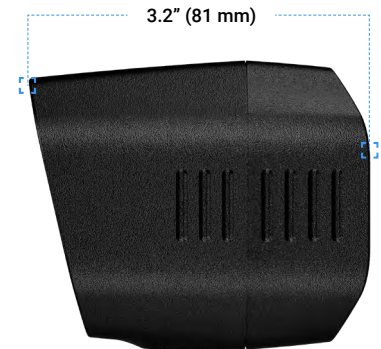
In a mixed fleet setting, the M500 and M500E can sync with each other, ensuring that when a second vehicle arrives at an active scene, its system is automatically activated to capture every second of critical evidence.



Camera Specifications

M5E Exterior Camera

- 1080p resolution
- Viewing angle 108° / wide view
- Weatherproof
- Consistent performance in extreme temperatures
- Flexible mounting options



M5F Front Camera

- 4K (8MP) sensor
- Delivers 1080p video evidence as panoramic and focused field of view*
- Automotive-grade sensor
- Excellent low-light performance
- Calibrated and locked into position at installation



M5P Cabin Camera

- 1080p resolution (4 MP)
- Built-in infrared illumination
- High-grade microphone
- Complete cabin coverage fFeatures human presence detection sensor for complete cabin coverage
- Calibrated and locked into position at installation



M5R Rear Camera

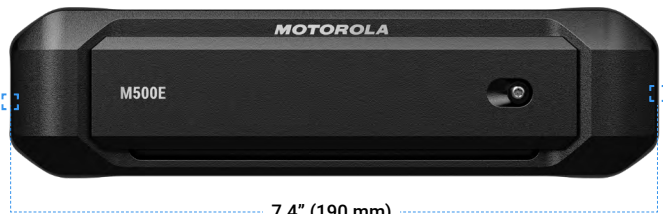
- 1080p resolution
- Viewing angle 108° / wide view
- Low light performance
- Sensor technology CMOS
- Calibrated for tinted glass
- Size and ramball design offer installation location flexibility



*M500 only



M500E Specifications



7.4" (190 mm)



1.9"
(50 mm)

6.6" (169 mm)

M500E Core Processor

- Dual 256 GB SD internal and removable card storage
- Built-in GPS for location tracking
- 256 GB industrial temp micro SD
- USB, microphone, trigger inputs/outputs, ethernet, and radar connections
- Record-After-the-Fact™ evidence recovery technology
- FIPS-140-2 compliant encryption for secure data
- On-board Wi-Fi for efficient evidence transfer
- Built-in impact detection and UPS
- Supports up to 2 cameras
- Compatible with the M5CH Control Head
- Integrated with V500 and VB400 body cameras for group recordings*

M500E M5CH Control Head

- Tactile, simple-to-use, buttons
- Compact control head for optimal vehicle installation
- Multiple mounting options
- Sleek, lightweight design
- Works in tandem with SmartControl app for streamlined evidence management



2.79" (70.9 mm)

1.91" (48.5 mm)



0.74"
(18.8 mm)



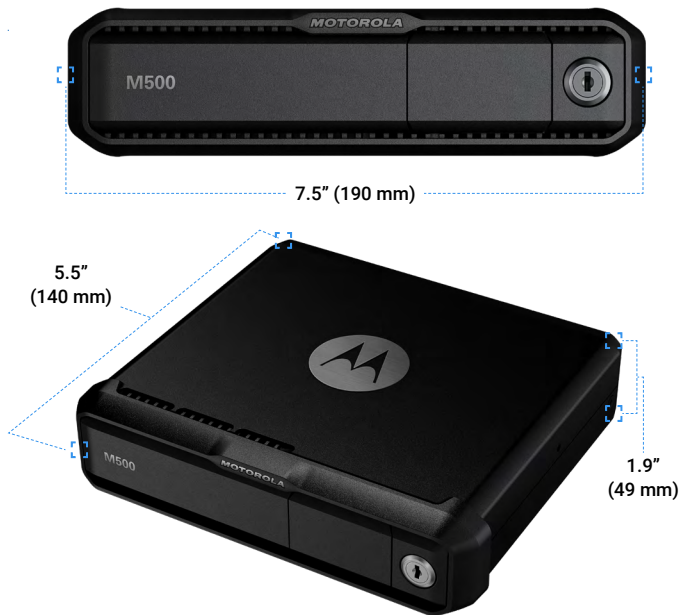
SmartControl App

- Compatible with iOS and Android
- Review and tag videos, change camera settings, and view live video
- Works seamlessly with built-in vehicle Wi-Fi

*Feature coming soon



M500 Specifications



M500 Core Processor

- Powerful multi-processor architecture
- Optimized for video analytics
- 1 TB automotive-grade solid-state hard drive
- 128 GB removable USB drive (keyed access)
- AES256 encryption on all stored content
- Built-in GPS for location tracking
- Remote triggers
- Record-After-the-Fact™ evidence recovery technology
- Built-in impact detection and UPS
- Supports up to 5 cameras
- Compatible with the M5D Touchscreen Control Head
- Integrated with SVX RSM's and V700 and VB400 body cameras for group recordings

M500 M5D Touchscreen Control Head

- 5" diagonal industrial-grade capacitive multi-touch screen
- Resolution: 1920 x 1080 pixels
- 7x dedicated buttons for critical features
- Standard, covert and dark modes
- Silicone overmold for secure grip



Solving for safer

Stay ahead of the curve with the M500 system.

Designed for police agencies that demand the best in video technology, our portfolio provides the flexibility, durability, and reliability you need to protect and serve with confidence. Whether you choose the expansive M500 or the compact M500E, the M500 System is your partner in maintaining clarity, control, and situational awareness — every step of the way.

Empower your team with a solution that adapts to your needs and enhances operational efficiency, ensuring you're always prepared for what's next.

To learn more, visit:

www.motorolasolutions.com/m500-system



MOTOROLA SOLUTIONS

Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. ©2025 Motorola Solutions, Inc. All rights reserved. 10-2025 [BG04]

Available in:

North America

