

DVM-800 Lite In-Vehicle Camera Kit
(two-camera system)

North Carolina Sheriffs' Association
"Technology Procurement Program"

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Introducing the DVM-800 Lite In-Car Camera System



The Digital Ally DVM-800 Lite is a complete digital in-vehicle video recording system integrated into a replacement vehicle rearview mirror. The unit contains the digital video/audio recorder, solid state storage memory, 3.5" color monitor, microphone, speaker, battery backup and system controls. A 900MHz Wireless Microphone Kit, 32GB SDHC card, mounts, cables, lifetime firmware upgrades, operating manual and two-year Advanced Exchange Warranty are included with the DVM-800 Lite Kit.

With the DVM-800 Lite, you can achieve higher quality recordings without the file size of HD. The DVM-800 Lite has enhanced 720-pixel codec and customizable quality settings.

Evidence Capture Assurance

Evidence Capture Assurance records a constant loop as well as individual incidents, in case any additional evidence discovery is ever needed after the fact. The Evidence Capture Assurance feature can also be configured to include the pre-event recording. The pre-event recording will retain up to thirty (30) seconds of footage before a recording is triggered, as part of the incident recordings.

Although the DVM-800 Lite comes standard with two (2) internal cameras, an additional six (6) external cameras can be added to the system. Each camera can be uniquely triggered, which minimizes storage space, transfer time, and officer distraction while optimizing review. For instance, the back door of the vehicle can trigger video of a suspect being placed into the backseat while the road-facing camera is able to simultaneously record any activity happening in front of the vehicle. The camera options available with the DVM-800 Lite allow improved visibility around larger vehicles, such as swat, armored trucks, prisoner transportation vans and buses.

Advanced Intelligent G-Force Sensor

The advanced, intelligent G-Force sensor that is built into the DVM-800 Lite does more than simply detect impacts to trigger recordings; it measures forces on the X-, Y-, and Z-axis (all directions). The G-Force sensor is able to measure acceleration, braking, cornering and even road conditions.

Included with Purchase:

- Digital Video Mirror (DVM) system integrated into a replacement rear view mirror module
- Ultra-bright 1000 NIT 3.5” TFT LCD Color Monitor integrated and invisible behind the mirror
- Automotive Grade rear view mirror glass
- Internal, Road-Facing Camera
- Internal Backseat-Facing, Wide Angle, Low Light Camera with Infrared LEDs
- 900MHz Wireless Microphone Kit consisting of:
 - Wireless Microphone with LED indicators
 - Built in antenna
 - Built in microphone
 - Lapel microphone with clip
 - 12V Re-charger with cigar plug cable
 - Belt Clip
 - Rubber Duck Antenna
- Internal Battery Backup
- Locking Media Door
- 32-Gigabyte SDHC Card
- Built-in Speaker with volume control for playback
- Built-in Microphone
- Built-in LED’s for external monitoring video/audio
- Power cable with interface box
- Operator/Installation Manual
- Two-Year Advanced Exchange Warranty

DVM-800 Lite Specifications**Environmental/Mechanical**

Mirror Dimensions: 1.5in (D) x 11in (W) x 4.125in (H)
(38.1mm (D) x 279mm (W) x 104.8mm (H))

Mirror Weight: 1.62lbs (733g)

Operating Temperature: -4° to +158°F
-20° to +70°C

Storage Temperature: -40° to +176°F
-40° to +80°C

Relative Humidity: 10 to 90% RH, non-condensing

Body Shell / Construction: Weather resistant Polycarbonate

Power

Operating Voltage: 6.3 to 32vdc

On: 0.36A @ 13.8vdc

Off: 0.26mA @ 13.8vdc

Backup Battery: 3.7v, 1150mA, Rechargeable Lithium Ion Polymer Battery



Internal

LCD Monitor: 3.5” diagonal Color (720x480)
Transmissive with backlight
Mounted behind mirror, invisible when not in use

Microphone: Internal (max. input SPL 110dB, sensitivity – 30dB)

Record Mode

Standby: In Standby mode the DVM records events only when an event trigger occurs. When not recording, a manual event record can be initiated by pressing the red Record button on the DVM.

Standby Pre-Event: The Standby Pre-Event mode operates the same as the Standby mode with the following additions: When not recording, the DVM is continually capturing the last 30 seconds metadata, audio, and video as pre-event data and is inserted as the beginning of the event recording.

Recording:

Video Format: MPEG 4, H.264 codec, AVI container

Audio Format: One channel (Mono) – voice optimized
PCM audio codec

Video Resolution: Full D1 (720x480) resolution

Video Quality: Standard 1Mbps (approx. 1-hour video will be 1GB)

Video Frame Rate: 30 frames per second (fps -number of frames per second the DVM will record).

Pre-Event Audio: When the “Record Mode” parameter is configured for “STANDBY PRE-EVENT” operation, Pre-Event Audio determines if audio is recorded to the pre-event buffer along with the video. By default, this setting is enabled and pre-event audio is recorded during Pre-Event. If disabled, pre-event audio will not be recorded.

Metadata Captured: Metadata includes Date/Time stamp, Device ID and configurable data such as User ID, Event ID Type, Incident #, Gender, Age, and more.

Record Activation & Trigger

Record Activations: The DVM-800 Lite initiates a recording through the simple touch of the mirror REC button, wireless microphone RED button, or customizable automatic trigger. The “trigger” interfaces with other standard vehicle components that, when engaged, will automatically begin the DVM record mechanism. RECORD activations are listed below;

- Record button on front of unit
- Record button on the Wireless Microphone
- Customizable external automatic trigger
 - Common triggers include: emergency lights, siren, brake pedal, turn signal indicators, reverse gear, covert foot switch, door sensors, and accelerometer.

Media Storage

Capacity: 32GB Solid State Internal Memory
External SD Card support: 8/16/32GB, Class 4 or Class 6, commercial grade recommended or equivalent to SanDisk SDSDRH-008G-A11

Secure Media Access: Optional tamper resistant screw can be installed in the access door, requiring the corresponding security key to unlock the access door



Pre-Event Buffer: 30-seconds (configurable to: enable / disable)

Data Transfer

USB Connection: Recorded files can to be transferred to the workstation for archiving via the USB connection.

SD Card: If the system is configured to use external memory, an optional SD card can be removed from the DVM-800 Lite and the recorded files can be transferred to the workstation for archiving.

Controls and Indicators: Record Start/Stop Button
Mark Button
LED Status indicators (front & back)

Internal Display invisible when not in use)
Power Button
Still Photo Camera Button
Infrared LEDs
Play/Pause Button
Menu/Select Button
Rewind/Cursor/Left Button
Fast Forward/Cursor/Right Button
Up/Down Cursor Buttons



Connectors / Ports:

USB Port
External Microphone Input
Accessory Port
Power Port
Road Facing Camera
Internal Speaker (for playback)

Software and Firmware:

Embedded Linux Operating Software
Firmware upgradable via USB or External SD card

Certifications:

FCC part 15 Subpart J Class B
RoHS (European market)

Standard Package:

DVM-800 Lite Mirror
DVM Lanyard and Shielding Strap
Rear View Mirror Mount
Windshield Mounting Puck
USB 2.0 A to mini-B Cable
Security Tamper Proof Screw and Key Kit
32GB SD Card
900Mz Wireless Microphone System

- Charge/Docking Cradle & Antenna
- Wireless Microphone w/Belt Clip
- 12V Charge Cable
- Wired Lapel Microphone
- Mounting bracket

Vehicle to DVM Power Cable
Administrator / Installation Manual
Quick Start Guide
Product DVD

Warranty:

Two-Year Advanced Exchange Warranty

Recording and Media

The DVM-800 Lite uses a Secure Digital (SD) Media card to record video data. The Secure Digital cards are completely solid state, eliminating most all of the drawbacks to video systems that use hard disk drives to record and store data (moving parts, cooling, performance degradation over time, etc.)

All DVM models record the video data in three levels of resolution: High, Medium and Standard, to allow for different resolution options and overall recording time.

