

Data911[®] Mobile Digital Video



Data911's Mobile Digital Video (MDV) system is a complete mobile video management solution designed for the specific challenges within Public Safety environments.

MDV is available in three configurations: tethered to an on-board computer or laptop; standalone: independently powered, does not require an on-board computer and utilizes a separate control head; hybrid: utilizes an on-board computer as the control head, however the system will still operate if the on-vehicle computer goes down (separate control head is optional).

Hardware:

Mobile Digital Video Recorder (MDVR), front and (optional) rear compact video cameras, wireless microphone system

Software:

Web-based, touch screen-friendly software interface supported by the most comprehensive server-side software on the market today

Key Features:

- Live streaming video to any secure location
- Real time mapping that can be integrated with incident playback
- Highly configurable to fit agencies' specific needs
- Continuous or incident-triggered video and audio capture
- Integrated license plate recognition

Advanced License Plate Recognition Technology:

Data911's LPR technology is integrated with our Mobile Digital Video software providing the ability to outfit an entire fleet with LPR for a fraction of the cost of competitive systems. In fact, the combined cost of our M6 mobile computer system together with our mobile digital video system and integrated LPR is less than the cost of one competitive LPR system.



MDV Specifications:

Mobile Digital Video System

Compact Video Camera(s)

All models of the front-facing video cameras are capable of capturing high quality images at up to 30 frames per second. The cameras also feature 10x optical power zoom, 4x or 12x digital zoom (depending on model), auto focus, automatic white balance, high sensitivity in low-light conditions and a software interface for camera control. The optional rear facing, IR color, wide angle camera captures both audio and video of rear seat passengers in low lighting conditions (zero lux).

Wireless Microphone System

The body-worn microphone has a maximum range of 1000 feet and can operate up to 8 hours continuously (14 days standby) on a single charge. The 2.4 GHz transceiver operates on one of forty secure channels minimizing interference with other wireless devices.

Mobile Digital Video Recorder, Tethered to On-board Computer System

The ruggedized Mobile Digital Video Recorder (MDVR) encodes the incoming audio and video signals utilizing MPEG-4. Eight (8) alarm inputs allow for trigger-based recording and as all of the video encoding is handled by the MDVR, fewer resources are taken from your mobile computer system.

Stand Alone Mobile Digital Video Recorder (SAM DVR)

Data911 also offers a stand alone ruggedized Mobile Digital Video Recorder which is independently powered and does not require an on-board computer. As with the tethered system, it encodes the incoming audio and video signals utilizing MPEG-4 compression and has the same eight (8) alarm inputs which allow for trigger-based recording. The SAM DVR's features are generated by a Celeron 1.5 GHz embedded system, operating from solid state media. The system's footprint is similar to the Data911 M6 CPU. The external 1.5 DIN control head features a 3.5" VGA touch screen and separate control buttons.

The MobileVid System

MobileVid front-end software provides live viewing of the in-vehicle camera and review of audio/video data. The user interface is optimized for touch-screen functionality and features large buttons and controls.

Features:

- Capture of GPS and customized metadata
- Record and review simultaneously
- Rewind in live, preview and review mode
- Configurable "Pre-Event" recording time
- Exportation of files to computer's external drive
- Data tampering prevention with cryptographic signatures
- Multiple recording triggers: audio device, light bar/siren, crash sensor
- Live streaming video capability: to vehicle from remote locations; from vehicle to remote or central command locations
- Bookmarking of selected portions of audio/video files

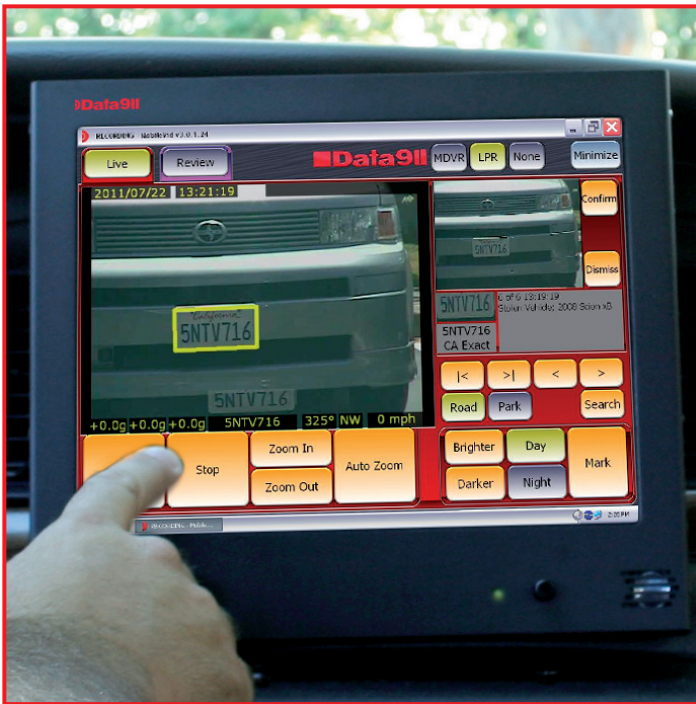
The VidNet System

The VidNet back-end web-based system is the most comprehensive server software on the market today. It provides all the functionality required to take full advantage of Data911's MDV systems. The VidNet software is loaded on a Windows Server and provides full search capability of information stored on the server.

Features:

- File retrieval by user's name, folder name, bookmark, district number or date and time
- File search of archived, long-term or permanently stored files through convenient search wizard
- Password protection for users on the system: individually or as part of a group, squad, precinct or troop
- Media can be linked to an agency's records management system using standard URLs
- Related media from disparate sources can be grouped and viewed together
- Report creation reflecting all activity within the system by event type or other identifiers
- High quality video playback with synchronized maps, tags and other metadata
- File conversion to DVD for viewing on a standard PC
- JPEG snapshot functionality
- Automated DVD burning and labeling

Mobile Digital Video System



Touch Screen Display



Compact Front Facing Video Camera



Compact Rear Facing Video Camera



Wireless Microphone System



Mobile Digital Video Recorder



Touch Screen

Stand Alone Mobile Digital Video Recorder (SAMDVR) with Touch Screen Interface

License Plate Recognition Technology



LPR Touch Screen User Interface



Bullet Camera for License Plate Reads

Camera: Front Facing

Model	EX11D
Zoom Range	40x (10x Optical; 4x Digital)
Low Light Capability	1.5 lux
Wide-angle Lens	5 - 46 degrees
Auto Adjustments	White Balance, focus
Weight	0.60 lbs.
Dimensions	2.0 x 3.5 x 2.0 in
Optional Model	EX20D
Zoom Range	120x (10x Optical; 12x Digital)
Low Light Capability	0.25 lux
Wide-angle Lens	5.4 - 50 degrees
Auto Adjustments	White Balance, focus
Weight	0.78 lbs.
Dimensions	2.0 x 3.6 x 2.3 in

Stand Alone Mobile Digital Video Recorder (SAM DVR)

Control Head Resolution	(640 X 480) VGA, 3.5" LCD
CPU	Intel Celeron M 370 Processor
Frame Rate	30 fps (configurable)
GPS Module	Standard
Recording Media	Solid State CF Card
CF Card Capacity	32 GB
REC Stop	Trigger or Timer (1-90 min)
Control Panel Key Lock	Tamper-resistant
WLAN	Tri-mode 802.11 a/b/gn Wi-Fi Certified
Physical Size (w/ fan mount)	4.69 x 13.25 x 5.75
Weight	6.0 lbs

Controls

Interfaces	Ethernet, Power, USB, Audio, Cameras, Control Panel, Triggers, GPS Antenna, Serial Comport
Control Head	Record, Stop, Zoom in/out, Auto Zoom, Rewind in Live, Preview and Review Mode
Via Computer	Record, Stop, Play, Pause, Slow, Frame-by-Frame, Auto Zoom, Backlight Compensation, On-Screen Display: On/Off, Bookmarks
External Triggers	Up to 8 Configurable: Siren (Siren interface may be required), Lights, Accelerometer, Gun, Brake, Speed, Door
Internal Triggers	Crash Sensor, GPS/Speed Control

Digital Wireless Mic

Frequency Range	Up to 1,000 Feet Line of Sight
Controls	Emergency Button, Beep, In-Use, On/Off
Antenna	Internal
Battery Life	8 Hours (14 days standby)
Battery	Li-Ion 3.7 VDC 1300mA
Dimensions	2.5 x 1.8 x 0.94 in
Weight	0.16 lbs
Accessories (included)	Rugged Belt Clip, Mic

Wireless Receiver

Frequency Range	Digital Spread Spectrum 2.4 GHz
Channels	95
Antenna	Internal
AC Desktop Charger	Available
Dimensions	2.75 x 2.99 x 3.15 in

I/O Ports

RS232	One external
USB	Two external, one available.
Ethernet	Intel 1 Gb/sec Base-T
Control Head Interface	LVDS / Audio

Electrical Environment

Power Source Options	Vehicle Battery 12V, Negative Ground
Input Voltages	6 to 18 VDC
Power Consumption	At 13.8 VDC: Off = .030 amps Typical = 4.0 amps Maximum = 5.0 amps

Environmental & Durability

Storage Temperature	-40 C to +85 C (-40F to +185F)
Operating Temperature	-25 C to +65.5C (-13F to +150F)
Relative Humidity	5% to 95% (non-condensing) at 60 C
Sealing	IP54
Shock	> 75 g at 11 ms half sine
Crash Hazard	> 100 g at 2 ms half sine
Vibration	> 1 g RMS, 5-500Hz

Warranty: One-year parts and labor including software updates/upgrades. Second and third year extended warranties also available.

