

Hub-Data911



Rear-facing
infrared
camera

Forward-facing
camera

Data911 Mobile Digital Video System

Computer
Touch Screen
Control Interface



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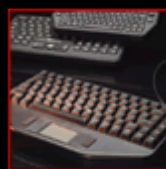
LClick - Continue, Esc - Exit



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Data911 Mobile Digital Video System

- *Live Streaming Video* from the car to the station
- License Plate Recognition is available as an add-on feature
- Digital Video integrated with your mobile computer system
- Capture 2 channels of video and 2 channels of audio, including metadata
- Control cameras from an easy to use on-screen display
- One touch Auto-Zoom feature for license plate recording



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DV Recorder Specifications



- Codec: MPEG4
- Size: 1 Din (2"x7"x5 3/4") Fits in standard console
- High Audio Fidelity: 48Khz, MPEG, 2 Channels
- Recording speed: 30 fps (configurable)
- Pre-Event Recording: Configurable up to 5 minutes
- Operating Vibration: 100+ g shock
- Operating Temperature: -40°C to +85°C
- Crash Sensor: 3 axis accelerometer



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DV Recorder Specifications



- Recording Triggers: 8 configurable triggers, plus manual record button
- Telemetry Data: Trigger status, GPS, accelerometer, etc., recorded along with video
- On-screen Display: Configurable and removable either before or after recording
- Recording format: Records to Compact Flash - One 8 GB CF card will record 12 hours (typical) of single camera video or 8 hours (typical) of dual camera video (Optional larger capacity cards available)
- Illuminated soft buttons for manual operation
- Computer Control: Large touch screen buttons on Mobile Client application



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Mobile Digital Video Camera Features

- Dual color camera system:
 - Front, forward facing
 - Rear, captures back-seat passengers
- Front Camera: small, rugged, 1.5 lux rating
LEDs: Green (power) Red (recording)
- Resolution: 640x480 at 30fps, 470 lines,
380,000 pixels (User configurable)
- Zoom: 10X Optical, 4X Digital
- Optional Rear camera: Infrared, color, wide
angle, zero lux rating





Audio System Features

- Body-worn Microphone Transmitter:
 - Size similar to a common pager
 - Range: 1000 feet, line of sight
 - Remotely activates video recording
 - Warning light indicators for out-of-range or low battery
 - Emergency panic button
 - Synchronizes to any base unit
 - 40 Available Channels
 - Battery Life: Up to 8 hours continuous-use
 - 14 days on Stand-by
 - Lapel microphone included
 - Can operate with 2 Microphones per vehicle

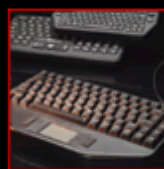




Audio System Features

- Base Station/Charger:
- 2.4 GHz spread spectrum
- Optional in-station AC charger
- Optional additional in-car microphone





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Configurable Triggers

User-defined Triggers and On-Screen-Display information

8 Available Trigger configurations may include:

- Wireless Microphone trigger
- Vehicle Speed trigger
- Light Bar trigger
- Siren trigger
- Accelerometer / Crash Sensor
- Gun Rack electronic release
- Rear Door opening trigger
- Brake application OSD

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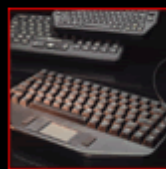
Search Media
Administration
Logs: Audit
Users: User List
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Groups: Group List
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Media: Bookmark Class List
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System: Database Structure
Realtime Vehicle Info
User Options
Log Out admin

VidNet Source Administration: Edit Mobile Configuration TestConf

General Video Audio **Triggers** Outputs LPR OSD

Trigger Configuration

Trigger/Enabled	1: Enabled
Trigger/ComPort	0
Trigger/Speed/Enabled	1: Enabled
Trigger/Speed/Threshold	90.0
Trigger/Speed/DelayOn	3.0
Trigger/Speed/Action	<input checked="" type="checkbox"/> Record Vid1 <input type="checkbox"/> Record Vid2 <input checked="" type="checkbox"/> Create Bookmark
Trigger/Accel/Enabled	1: Enabled
Trigger/Accel/ThresholdX	2.0
Trigger/Accel/ThresholdY	2.0
Trigger/Accel/ThresholdZ	2.0
Trigger/Accel/Action	<input checked="" type="checkbox"/> Record Vid1 <input checked="" type="checkbox"/> Record Vid2 <input checked="" type="checkbox"/> Create Bookmark
Trigger #1 Delete This Trigger	
Enabled	0: Disabled
Name	Em
PrettyName	Emergency
Action	<input type="checkbox"/> Record Vid1 <input type="checkbox"/> Record Vid2 <input type="checkbox"/> Create Bookmark
Port	1
PortType	1: Power/Float
DelayOn	2.0
DelayOff	0.25
Trigger #2 Delete This Trigger	
Enabled	1: Enabled
Name	Mc



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Mobile Client Application Live View - Dual Cameras

Hide Information and Maximize Camera Views

The screenshot shows the Mobile Client Application interface with the following elements:

- Top Bar:** Includes 'Live' and 'Review' buttons, the 'Data911' logo, 'MDVR' and 'None' status indicators, and a 'Minimize' button.
- Main View:** Split into two camera feeds: 'Front Camera Image' (showing a green car) and 'Rear Facing Infrared Camera Image' (showing the interior of the car).
- Right Panel:** Displays status information: 'Status: Idle', 'ID: Car714', 'Lat: N38'38'18', 'Lon: W90'34'19', 'Free: 7803MB (8h 17m)', 'To Upload: 10 files (6MB)', and 'Server: Upload 6.4Mbps'. It also features an 'On-Screen Display On/Off' toggle.
- Bottom Control Panel:** Contains buttons for 'Record', 'Stop', 'Zoom In', 'Zoom Out', 'Auto Zoom', 'Brighter', 'Auto Exp', 'Darker', 'Man Exp', 'Snapshot', and 'Mark'. Navigation arrows '<<' and '>>' are also present.
- Bottom Status:** Shows '3 Axis Accelerometer / G-Force Detector' and 'Heading, Direction, MPH'.

Satellite Date/Time

Double Click to Maximize Camera View

Recording started Manually, or by 8 automatic triggers

Manual Zooming

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LClick - Continue, Esc - Exit

Auto Zoom for License Plate Capturing

Video Bookmarks

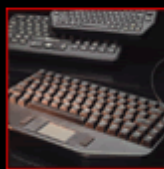
Exposure Settings

Available space and Upload / Connection status

JPEG Snapshots

Review - Skip Forward/Backwards

On-Screen Display On/Off



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Mobile Client Application Video Review

Double Click to Maximize Camera Playback Size

Edit and Add multiple bookmarks

JPEG Snapshots

Playback either audio channels

Add Bookmarks

Playback Slide Bar

Jump Forward/Backwards

Single Frame Advance

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LClick - Continue, Esc - Exit



Mobile Client Application Video Bookmarks

- Bookmarks can be added at any place in the video
- Selectable Bookmark Classes can be configured at the server to maintain standards.
- The fields Name, Desc, and Title are all searchable fields in the server software.

Class	Description
[No Class]	
Junk	
Traffic Stop	
DUI	

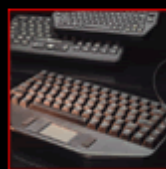


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Digital Video Mobile User Interface:

- Conforms to any resolution display
- Large touch screen buttons on computer display
- **Live Streaming** Via 802.11x or Cellular Broadband – (Bandwidth dependent)
- File transfer: Video/audio file upload via wireless transmission or Compact Flash card
- Snapshots: Saved instantly as JPEG during either Live view or Playback mode viewing
- Security: Cryptographic signatures prevent data tampering





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Mobile Client Application

License Plate Recognition - Optional

- Outfit an entire fleet with LPR for a fraction of the normal cost
- Increased recovery of unpaid fines
- Maximize stolen vehicle recoveries
- Increased number of arrests
- Improved officer safety
- Search over 150,000 priority plates per second in the background
- No additional computer needed in the vehicle for License Plate Recognition
- Confirm Plate OCR match
- Optional infrared **side camera** for additional plate scanning

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LClick - Continue, Esc - Exit



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MDV Server Application - Media Searches

- No special client software needed - all user interaction done through a standard *web browser*
- All media accessed using web addresses (URLs) for easy linking from external applications, such as an agency's records management system
- Comprehensive searches may be custom tailored, saved and shared

■ Data911

Search Media

New Search

Manage Stored Searches

Administration

Realtime Vehicle Info

User Options

Log Out admin

■ New Media Search

Use this form to construct a new search query.

Search for media	
Title:	Any Title <input type="text"/>
Owned by:	Any User <input type="text"/>
Group Association:	Any Group <input type="text"/>
Time of Event:	Any Time <input type="text"/>
Time of Upload:	Any Time <input type="text"/>
Source:	Any Source <input type="text"/>
Bookmark Text:	Any Text <input type="text"/>
Bookmark Class:	Any Class <input type="text"/>
Location:	Any Location <input type="text"/>
Junk Flag:	No Junk <input type="text"/>
Media State:	Active Media Only <input type="text"/>
Expiration Date:	Any Date <input type="text"/>
Columns:	<input checked="" type="checkbox"/> Media ID <input checked="" type="checkbox"/> Thumbnail <input checked="" type="checkbox"/> Title <input type="checkbox"/> Filename <input checked="" type="checkbox"/> Owner <input checked="" type="checkbox"/> Groups <input checked="" type="checkbox"/> Source <input type="checkbox"/> Upload Time <input checked="" type="checkbox"/> Event Time <input checked="" type="checkbox"/> Duration <input type="checkbox"/> Maximum Speed <input type="checkbox"/> Average Speed <input type="checkbox"/> Percent Motion <input type="checkbox"/> GPS <input type="checkbox"/> Expiration Date <input type="checkbox"/> Media Status <input type="checkbox"/> Media Flags <input type="checkbox"/> Expunge
<input type="button" value="Search"/>	



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MDV Server Application - Video Playback

- High-quality video playback with synchronized maps, tags and other metadata
- Flexible options for selectable playback views
- Many types of media can be imported, such as video, audio, images and documents

VidNet Media Window

2008/05/16 | 09:20:57 | None

+0.0g+0.0g+1.0g | 53 mph

Media

Microsoft® Virtual Earth™

Media #2691: Front Camera Rear Camera Wireless Mic

In-car Mic

Data: Map

Metadata		Bookmarks	View	Snapshot	Media Info	Export
Time:	Fri Feb 27, 2009 @ 8:15:36.20 AM					
Latitude:	29°21'30"N					
Longitude:	82°13'21"W					
Speed:	55.00 MPH					
Accel:	0.0g, 0.0g, 0.0g					
Triggers:						



MDV Server Application - System Users / Rights

- System Administrators can define Users, Group, Roles and lockdown User Rights
- System security changes are automatically updated in the mobile vehicles



Search Media

Administration

Logs: Audit

Users: User List

Users: Administrative Levels

Groups: Group List

Groups: Role List

Sources: Source List

Sources: Configurations

LPR: Hot Lists

Media: Bookmark Class List

Media: Maintenance and Archival

Media: Unparsed Media

System: Background Tasks

System: Server Settings

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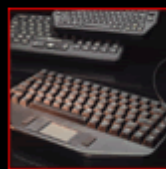
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VidNet User Administration: Administrative Level List

Options	ID	LevelName	Permissions																					
<input type="button" value="Edit"/>	3	Power User	L	U	G		M		R											R	A	E		
<input type="button" value="Edit"/>	2	Administrator	L	U	G	S	L	M	S	S	R	E	R	B	A	M	E			R	B	A	M	E
<input type="button" value="Edit"/>	1	User																			R			



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MDV Server Application - Mobile Configuration

- System Administrators can define and configure mobile video setups from one central point, then automatically download changes to all mobile units when in range
- Configure mobile DVR, video, audio, triggers, outputs, LPR and on-screen displays

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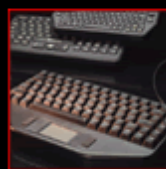
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Name	Mc



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MDV Server Application - Server Sys. Administration

- System Administration at the server is comprehensive and easy to use

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Realtime Vehicle Info

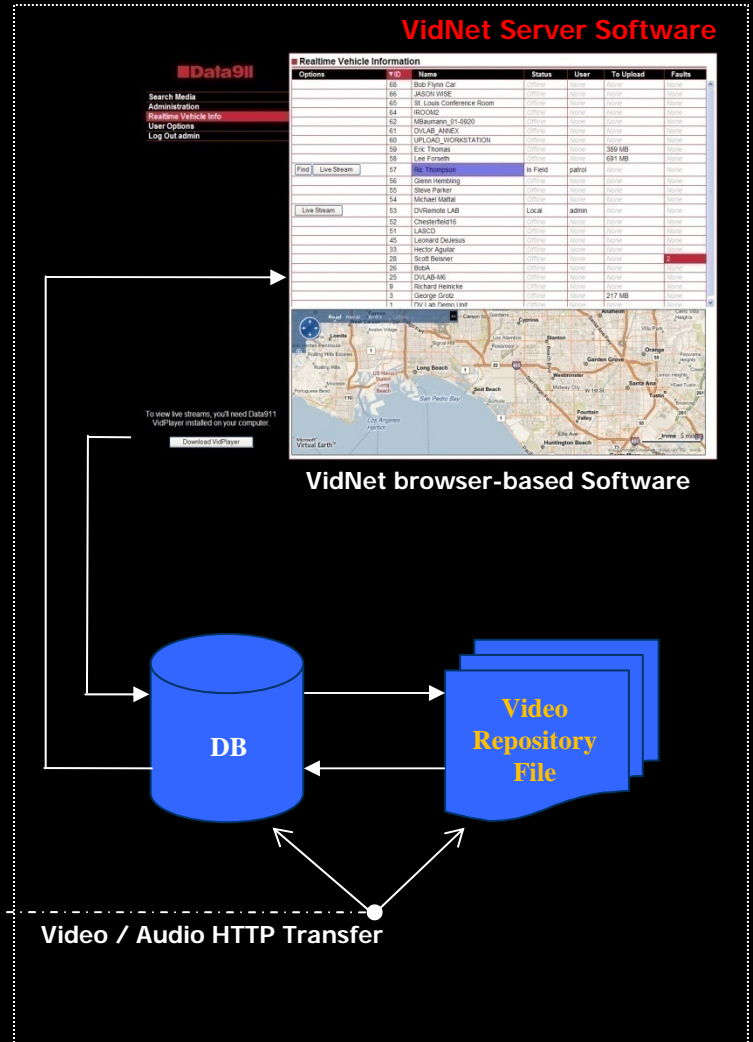
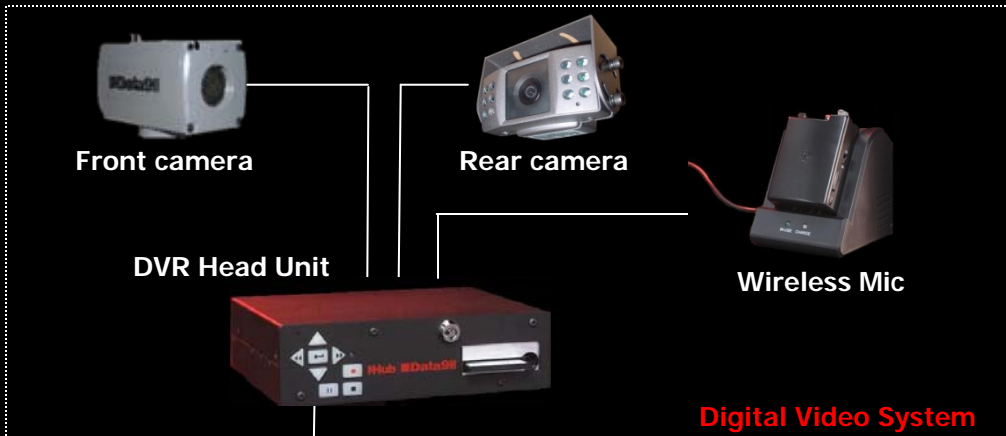
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VidNet Server Settings	
Server Settings	
Installation Name:	D911Demo
Installation ID:	D911
Server License:	OK <input type="button" value="View/Update License"/>
Default Time Zone:	USA: Central Time
Keep Logs For:	1 Year
MobileVid Communication Settings	
MobileVid Login Access:	By Role Permission Only
File Retry Limit:	10
Low-Bandwidth URL:	
Media Expiration and Archival	
Default Media Expiration Age:	Other (90)
Archive All Media:	No
Archival Media Type:	DVD Single Layer (4 GB)
Maximum Archive Discs Created Per Maintenance Cycle:	No Limit
Restore Drive Letter:	D:
When to Delete Media Files:	Only when free space is needed
Media Playback Settings	
Default media starting point:	Beginning of pre-event
User Settings	
Default New User Administration Level:	User
Minimum number of characters in user passwords:	Do not enforce
Minimum number of non-alphanumeric characters:	Do not enforce
Maximum number of consecutive alphabet characters:	Do not enforce
Maximum age of passwords before expiration:	Do not enforce
Allow users to change their own passwords:	Yes
Mapping	
Google Maps Site License Key:	
Home Latitude:	
Home Longitude:	
<input type="button" value="Apply Settings"/>	



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Digital Video System Overview





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Data911 Mobile Digital Video System

Our on-screen Digital Video software offers real-time viewing, playback and full camera control right from your mobile computer.



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LClick - Continue, Esc - Exit



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Data911 Mobile Digital Video System

- ✓ **Live Streaming Video** from the car to the station
- ✓ Wireless Hands-free Uploading
- ✓ **License Plate Recognition**, affordable for every vehicle!
- ✓ Configuration and Hotlists automatically downloaded to car
- ✓ Dual color camera system
- ✓ Removable recorded media
- ✓ Interfaces with your mobile computer to provide large view onscreen video and camera control.



Call for more information!

Sales Office - 1819 Clarkson Road Suite 306 Chesterfield, MO 63017 +1 636.532.4911
Corporate Headquarters - 2021 Challenger Drive Alameda, CA 94501 +1 510.865.9100

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Esc - Exit