



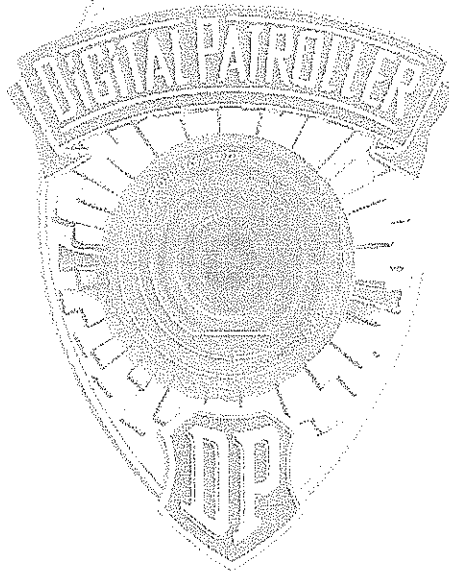
**Integrian's Response to:**

**West Virginia State Police**

**RFQ DPS0708 for:**

**Compact In Car Digital Video Systems**

**November 28, 2006**



**Integrian contact:**

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Vice President of Sales and Development  
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511 Davis Drive, Ste. 300,  
Morrisville, NC 27560  
Ph: 919.472.5000  
[www.integrian.com](http://www.integrian.com)

November 28, 2006

Ron Price  
Buyer  
Department of Administration  
Purchasing Division  
Building 15  
2019 Washington St., East Charleston, WV 25305-0130  
304-746-2141

Dear Mr. Price:

Thank you for allowing us the opportunity to be your vendor of choice for Compact In Car Digital Video Systems. Integrian's in-car digital video solution captures and manages incidents anywhere police officers are dispatched. The product seamlessly integrates in-vehicle video capture with in-office management of collected data, meeting the critical needs of today's police organizations:

- High quality video, for evidentiary value
- Definable, automatic functions, so officer interaction is minimal
- Secure upload of information, to minimize potential for loss or tampering
- Quick, easy installation
- Ability to integrate with existing equipment

Our staff of experts began over 17 years ago by installing cameras in stock cars at major racing venues around the world, and then sending the wireless footage from the cars out to a central command center. Not only was extremely rugged technology required to withstand the rigors of the race track, but expertise on the broadcast end, in accessing, managing and transporting the video footage was key.

As police agencies began to recognize the need for robust, high-quality video in police cars, the DP product emerged as a natural fit. Since its founding in 2000, DigitalPatroller has been creating, refining and installing in-car video systems for police agencies all across the country.

Our strong expertise in software and data storage prompted Dell, Inc. to select us as its OEM manufacturer. We are proud to note our amazing 100% customer retention rate, and a re-purchase rate approaching 90%.

We look forward to working with your agency as well, and will comply with all applicable laws when carrying out any contracts.

Regards,

Robert Bradley  
VP of Sales and Business Development



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## EXECUTIVE SUMMARY

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With over 4,000 public safety systems and over 1,800 transit systems installed throughout the world, Integrian is one of the premier worldwide suppliers of advanced mobile DVR technology to both the public safety and the transit industry. Integrian's hardened video surveillance and communication products are designed for high-profile and demanding public safety and transit environments such as the Dallas Texas Police Department, San Antonio Texas Police Department, Santa Clara California Police Department, London Underground, Heathrow Express and the Madrid Suburban transit network, and is currently being installed at New Jersey Transit.

Integrian's sole line of business is the design and manufacturing of state-of-the-art, highly reliable, rugged security surveillance and monitoring systems for public safety and transit applications. System components include, digital video security, destination displays, passenger displays, controllers, emergency alarms, and public announcements, designed to operate in single scalable data networks and then applied to the particular transport mode to be supported (i.e., rail, bus, or vehicle). To assure the long-life and usefulness of Integrian systems, individual components can be added, or upgraded in the system configuration as new technology evolves to meet the growing needs of public safety and transportation agencies.

Integrian products feature high quality color video imaging, long storage intervals, and flexible recording modes to support routine operations or special event monitoring. Secure file storage protects the evidential integrity of recorded data, while built-in test and diagnostics capability detects and reports the presence of fault conditions, helping to ensure confidence in the proper operation of the systems.

A key element of Integrian design and development capability is its in-house testing of products to ensure that stringent environmental compliance's such as Electromagnetic Interference (EMI), Electromagnetic Compatibility (EMC), vibration and humidity and temperature are adhered to.

Integrian is a pioneer in the development of mobile digital video recording systems and invests millions of dollars in research and development annually. To protect our investment, Integrian regularly files U.S. and world-wide patent applications for all unique aspects of our hardware and software systems covering product design, unique features and packaging.

Integrian holds fundamental intellectual property in mobile digital video recording systems for public safety and other markets. For example, one of Integrian's patents is U.S. Patent 6,831,556, Boykin, et al., "Composite Mobile Digital Information System", a ground breaking concept of integrated video, audio and metadata streams. In addition, the patent addresses methods of file transfer, wireless transfer and streaming, and pre-event recording.

In addition to these patents, Integrian currently has patents pending for a wireless microphone, secure ruggedized packaging of electronic components, sensor activation of system components, and numerous improvements to fundamental intellectual property within our market. Integrian continues to aggressively pursue patents that broaden our IP landscape, both through improvements to IP already in-house and by securing patent protection for new technology discovered by our research and development groups.



## Statement of Understanding

Integrian clearly understands the project overview and scope as described in the RFP. We have the ability to provide to you an end-to-end Digital In-Car Video SOLUTION, encompassing top-quality in-car digital video and audio recording features, secure wired or wireless transmission of those files, and a back-end system capable of managing and archiving that data.

DigitalPatroller® processes (encodes and compresses) digital video in the industry standard MPEG4 format. Video content from the DigitalPatroller® can be submitted to the courts under the Federal Rules of Evidence (FRE). The agency must be able to substantiate an appropriate “chain of custody”, and should be able to demonstrate the existence of and the compliance to agency guidelines for the use and operation of their in-car camera systems.

The DigitalPatroller® product is compatible with all established public safety and law enforcement standards. Representatives of Integrian participate in all the technical working groups of the IACP Digital Video Systems specifications effort under Program Director Grady Baker which is playing a key role in guiding future standards for in-car camera systems.

You will see from our Company Experience and Qualifications that Integrian has been a pioneer of in-car video. Our team of experts began over 20 years ago broadcasting “live” in-car video from race cars to the world, which included, but is not limited to, all the necessary in-car and communications equipment. In 1999, the concept, design and patent for the DigitalPatroller® in-car system was created. Since the introduction of DigitalPatroller® system in 2002, the system functionality has continued to expand based on identified needs, which can only be attained through experience.



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## **FIRM IDENTIFICATION**

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Integrian Inc.

Headquarters  
511 Davis Drive  
Suite 300  
Morrisville, NC 27560  
919-472-5000

Organization:	Delaware Corporation
Tax ID:	58-2484156
Dun & Bradstreet #:	10 171 9255
No of Employees:	~140
Years in Business:	8 years (Incorporated in 1999)



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## COMPANY EXPERIENCE

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INTEGRIAN, INC. first opened its doors in 1999 as a contract manufacturing firm, pioneering mobile and wireless technologies for Fortune 500 companies. In early 2005, Integrian acquired Digital Safety Technologies, Inc. (DST), makers of the DigitalPatroller® product. DST began installing cameras in stock cars over 17 years ago. The company's expertise goes beyond this rugged in-car technology, to the broadcast end, in accessing, managing and broadcasting the video footage to homes around the world. Since 2000, the company has been creating, refining and installing video systems in police vehicles all across the country. The DigitalPatroller® product resides within a division of Integrian, Inc. which is a privately held corporation.



## REFERENCES

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### DALLAS POLICE DEPARTMENT

1400 S. Lamar St.  
Dallas TX 75215  
Lt. Gene Summers  
214-671-3111  
Fleet Size: 1000+ cars  
Project Date: 2006 (Q2)  
Project Time: 6 months  
Project Cost: \$11.7M  
Number of Devices: 1000+ Cars  
Time in Service: In progress  
Scheduled Repurchase: Initial 546 vehicles in 2006 and then approx.170 a year

### RALEIGH POLICE DEPARTMENT

110 South McDowell Street  
Raleigh, NC 27601  
Lawrence Cullipher  
(919) 890-3036  
Fleet Size: 350+ cars  
Project Date: 2006 (Q2)  
Project Time: 4 months  
Project Cost: \$ 550,000  
Number of Devices: 350+ Cars  
Time in Service: In progress  
Scheduled Repurchase: Initial 83 vehicles in June, 2006, 263 vehicles through September, 2006

### WILSON POLICE DEPARTMENT

120 Goldsboro St E  
Wilson, NC 27893  
Chief Harry Tyson  
(252) 399-2318  
Fleet Size: 30+ cars  
Project Date: 2006 (Q2)  
Project Time: 1 month  
Project Cost: \$ 160,000  
Number of Devices: 26 Cars  
Time in Service: 3 months  
Scheduled Repurchase: Initial 26 vehicles in June, 2006

### SANTA MONICA POLICE DEPARTMENT

333 Olympic Drive  
Santa Monica CA  
Eric Uler  
310-458-8779  
Fleet Size: 80+ cars  
Project Date: 2005 (Q4)  
Project Time: 2 weeks  
Project Cost: \$487,000  
Number of Devices: 55 Purchased  
Time in Service: 1 month  
Scheduled Repurchase: 20 units over 9 months





**SAN ANTONIO POLICE DEPARTMENT**

115 Auditorium Circle  
San Antonio TX  
Off. Brian Phelt  
210-207-7992  
Fleet Size: 600+ Cars  
Project Date: 2005 (Q3)  
Project Time: 2 months  
Project Cost: \$140,000  
Number of Devices: 4 Helicopters, 19 Cars  
Time in Service: 3 months  
Scheduled Repurchase: 100 car units over next 9 months

**ALABAMA STATE POLICE**

500 Dexter Avenue  
Montgomery AL  
Lt. Mark McHenry  
334-353-8500  
Fleet Size: 400+ Cars  
Project Date: 2005 (Q3)  
Project Time: 3 months  
Project Cost: \$238,000  
Number of Devices: 38 Cars  
Time in Service: 3 months  
Scheduled Repurchase: 6 months

**CHATTANOOGA POLICE DEPARTMENT**

3300 Amnicola Highway  
Chattanooga TN  
Mark Hamilton  
423-643-5330  
Fleet Size: 200+ Cars  
Project Date: 2005 (Q1)  
Project Time: 3 months  
Project Cost: \$645,000  
Number of Devices: 114 Cars  
Time in Service: 10 months  
Scheduled Repurchase: 3 months

**MADISON POLICE DEPARTMENT**

211 South Carroll Street  
Madison WI  
Lt. Joe Balles  
608-266-4600  
Fleet Size: 300+ Cars  
Project Date: 2004 (Q2)  
Project Time: 3 months  
Project Cost: \$432,000  
Number of Devices: 96 Cars  
Time in Service: 21 months



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**ARLINGTON POLICE DEPARTMENT**

620 West Division Street  
Arlington TX  
Larry Barclay  
817-459-5705

Fleet Size:	300+ Cars
Project Date:	2003 (Q3)
Project Time:	4 months
Project Cost:	\$411,000
Number of Devices:	83 Cars
Time in Service:	30 months

**ELGIN POLICE DEPARTMENT**

151 Douglas Street  
Elgin IL  
Joe Bush  
847-289-2778

Fleet Size:	75+ Cars
Project Date:	2002 (Q3)
Project Time:	4 months
Project Cost:	\$264,000
Number of Devices:	79 Cars
Time in Service:	45 months

**WEBER COUNTY SHERIFFS OFFICE**

721 West 12th Street  
Ogden UT  
Brad Slater  
801-399-8183

Fleet Size:	80+ Cars
Project Date:	2002 (Q2)
Project Time:	2 months
Project Cost:	\$575,000
Number of Devices:	67 Cars
Time in Service:	45 months

## **PROJECT TEAM**

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### **Proposed Project Organization**

A project manager from our Customer Care Team is assigned to service each customer account. They manage work flow with our customers and their installers to ensure a smooth installation by facilitating good communication, issue resolution, and product deliveries. Key responsibilities and services include:

#### **Back-end**

- Server Hardware and Software definition and procurement
- Client Hardware and Software definition and procurement
- Discovery of network infrastructure
- Definition of existing network integration points
- Definition of data storage and disaster recovery plans
- Scope of data transfer from vehicles (e.g. wired or wireless upload)
- Scheduling of server and client system delivery and deployment
- Scheduling of sub-contractors for deployment of hardware, software and/or network infrastructure

#### **In-vehicle**

- DVR installation options with existing in-car hardware
- Definition of upload options based upon projected volume of data capture and department methodology
- Scheduling of in-car system installation
- Scheduling of sub-contractors and/or Field Application Engineer deployment

## WARRANTY

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**Limited Software Warranty** - Company warrants that for a period of one year from the date of installation of DigitalPatroller, the software furnished will be free of defects in materials and workmanship under normal use. This warranty extends only to the original licensee. The exclusive remedy and the entire liability of the Company and its suppliers under this warranty will be, at the Company's or its service center's option, repair or replacement.

**Limited DigitalPatroller® Warranty** - Company warrants that for a period of one year from the date of installation of DigitalPatroller, DigitalPatroller® will be free from defects in material and workmanship under normal use. This warranty extends only to original purchaser. The exclusive remedy and the entire liability of the Company and its suppliers under this warranty will be the charge of the Company or its service center to replace or repair upon return of the DigitalPatroller® to the Company freight pre-paid. Company replacement parts used in DigitalPatroller® repair may be new or equivalent to new as determined by Company. Standard phone response time to a system failure is one (1) business day (8:00AM – 5:00PM Monday thru Friday). Standard response to repair a system failure is three-five (3-5) business days. Expedited service is available upon request for an additional fee.

**Software Upgrade** - From time to time, Company may develop new versions of or supplements to the software and make such new versions or supplements available to Company's customers. At Company's option, upgraded or supplemented versions may be made available free of charge to Company's customers or may include additional features, programs or products available for purchase by customers. Company will notify customer of the availability of upgraded or supplemented software as it is developed.

**Technical Support Telephone Line** - Company technical support lines are operational during normal business hours (8:00 AM – 5:00 PM, Monday through Friday, Eastern Time). The customer service number is 1-800-972-0373.

**Non-Warranty Support** - Service and support not covered by the limited warranties or extended warranties contained herein are available at Company's applicable hourly service charge(s) in effect at the time service is requested.

THE ABOVE LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE EXCLUSIVE REMEDY OF THE CUSTOMER HEREUNDER WILL BE REPAIR OR REPLACEMENT AS DESCRIBED ABOVE. THE CUSTOMER AGREES TO ASSUME ALL RISK AND TO HOLD THE COMPANY HARMLESS FROM ALL LIABILITY, PROPERTY DAMAGE AND PERSONAL INJURIES CAUSED BY THE EQUIPMENT OR THE TRANSMISSION OF INFORMATION. UNDER NO CIRCUMSTANCES WILL THE COMPANY BE LIABLE TO THE CUSTOMER OR ANY OTHER PERSON FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING, WITHOUT LIMITATION, DAMAGES FOR PERSONAL INJURY OR DAMAGES TO PROPERTY, AND HOWEVER OCCASIONED, WHETHER ALLEGED AS RESULTING FROM BREACH OF WARRANTY BY THE COMPANY, THE NEGLIGENCE OF THE COMPANY, OR OTHERWISE. THE COMPANY'S LIABILITY HEREUNDER WILL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE EQUIPMENT AND SOFTWARE. NO AGENT, EMPLOYEE OR REPRESENTATIVE OF THE COMPANY OR ANY OTHER PERSON IS AUTHORIZED TO MODIFY THIS LIMITED WARRANTY IN ANY RESPECT. CUSTOMER EXPRESSLY AGREES THAT USE OF THE EQUIPMENT AND SOFTWARE IS AT CUSTOMER'S SOLE RISK. NEITHER THE COMPANY NOR ANY EMPLOYEE, AGENT OR LICENSOR WARRANT THAT THE SERVICES PROVIDED BY THE COMPANY THROUGH THE EQUIPMENT AND SOFTWARE WILL BE UNINTERRUPTED OR ERROR FREE; NOR DO THEY MAKE ANY WARRANTY AS TO THE RESULTS THAT MAY BE OBTAINED FROM USE OF THE EQUIPMENT OR SOFTWARE OR AS TO THE RELIABILITY OF ANY SUCH SERVICE. THIS DISCLAIMER OF LIABILITY APPLIES TO ANY DAMAGES OR INJURY CAUSED BY ANY FAILURE OF PERFORMANCE, ERROR, OMISSION, INTERRUPTION, DELETION, DEFECT, DELAY IN OPERATION OR TRANSMISSION, COMPUTER VIRUS, COMMUNICATION LINE FAILURE, THEFT OR DESTRUCTION.

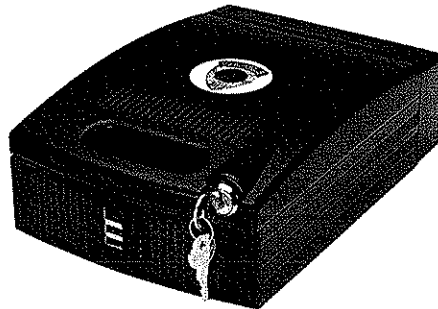
## **PRODUCT SOLUTION**

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The DigitalPatroller® mobile video system has been designed to capture video, audio and other data in the vehicle; to upload the data in an automated fashion with no user handling; to allow for access to the information from any client on the network via the robust management and retrieval software; and to provide a basis for transmitting the video live from the vehicle to a command center during a crisis situation.

The proposed solution describes the latest version DigitalPatroller 2 (DP-2).

DigitalPatroller offers optional dual hard-drives, making it the only RAID1 mobile device on the market. It includes over 100 hours of redundant recording, a gigabit port for fast data upload, integrated GPS, a 22x optical front camera, illuminated rear-camera, DataTalker® 900MHz wireless microphone and covert in-car microphone.



### **Product Description**

#### **Integrian DigitalPatroller System Component Specifications**

The standard Mobile Digital Video System (MDVS) consists of an in-vehicle video processing and storage system module (the Mobile Digital Video Recorder, or MDVR) with an embedded Global Positioning System (GPS); camera(s); LCD Monitor; wireless microphone; fixed docking stations at headquarters and precincts (when applicable); video retrieval workstation; and wired and/or wireless communication switches connecting the vehicles to the local storage equipment needed to archive data for the desired time period. Long-term data storage is designed to meet or exceed the required archival time period as determined by the Department.

#### ***Capabilities and features of the standard DigitalPatroller MDVR:***

- Local data storage: The unit can also interface with the Department's existing or proposed wireless transmission equipment to transmit preview video and/or auxiliary data wirelessly to a remote command post while the vehicle is in operation. The Department will provide the necessary communication infrastructure and wireless network.
- Removable, key lockable storage module, mounted in a secured environment within the vehicle.
- Independent monitoring/control interface, mounted in close proximity to the vehicle operator and capable of interfacing with an existing Microsoft Windows-based laptop for video control and playback.
- Capable of supporting up to four cameras, four audio sources and twelve auxiliary data inputs.

- Installation includes connecting the MDVR with all ancillary cameras, microphones, monitors, GPS locators, etc., in addition to interfacing with existing radar, light bar, and other systems via a connectorized wiring harness. Each in-vehicle installation is compliant with the Department's quality control standard for installation of similar equipment in the vehicle. Installation also includes fixed vehicle docking stations (when applicable), local communication equipment from the vehicle to the data storage equipment and long-term data storage equipment. Integrrian also offers a certified mobile digital video installation-training course for the Department's technical staff.
- Operates NTSC-compliant video in North American locations and has the capability to be compliant with PAL video systems
- Capable of connecting four cameras simultaneously
- Capable of supporting either analog or digital wireless data enabled microphones
- Synchronizes its internal clock through the embedded GPS system at least once per day
- Capable of operating in extreme temperature and high G-Force environments
- An administrator is capable of programming the standard in-vehicle Mobile digital video unit to remain on for a period of time after vehicle shut-down. The pre and post event recording time is user configurable from 0 – 5 minutes.

### **Mobile Digital Video System Hardware**

DigitalPatroller is housed in a compact ruggedized case. It is paired with a removable storage module, which is available in multiple solid state and hard disk drive (HDD) configurations. The storage module is capable of capturing and storing video, audio and auxiliary data locally in the vehicle.

The in-vehicle unit also supports remote previewing of video, unit (vehicle) number, date, time, unit identification information, direction and global positioning coordinates (given access to a wireless private or public network communicating at 14.4K or greater data speed). End-users have the ability to select desired image resolution and frame rates. The wireless transmission is capable of taking place while simultaneously recording full-motion video on internal drives.

### ***Standard Specifications***

Processing	Embedded Controller, 1Ghz VIA Eden processor
Cameras	CCD with Digital Signal Processing (DSP) and NTSC Output
Memory	512MB SDRAM
Network	10/100 Ethernet (1/Front and 2/Rear) Gigabit Ethernet (1/Rear)
USB 2.0	2/Front, 1/Rear
RS-232 ports	3
RS-485	1
GPIO	12 Inputs / 2 Outputs
Storage Module	Dual HDD RAID1 Configured

	See Storage Options for more detail.
Operating System	Microsoft XP Embedded
Global Positioning Receiver	Trimble, 12-Channel, WAAS Enabled
Audio Inputs	4
Video Inputs	4
Active HD Isolation System	Yes
Video/Data Storage Capacity	Minimum of 30 Hours Internal (Redundant, 30 Frames Per Second)
Dimensions	10.44" D x 7.13" W x 3.27" H
Weight	8 lbs.
Operating Temperature	-20C to 55C (-4F to 131F)
Storage Temperature	-30C to 75C (-22F to 167F)

### **Mobile Digital Video In-Vehicle Maintenance**

The standard in-vehicle Mobile digital video unit will fully recover from a power loss without the aid of an interruptible power supply or an operator. It is powered through a hard-wired connection to the vehicle's electrical system operating at 8 to 30 volts DC, and is capable of capturing and archiving data independently without the need for a continuous network connection.

The unit comes with all necessary cabling, connectors and hardware necessary for installation; including brackets for mounting.

### **Mobile Digital Video System Communications**

DigitalPatroller deploys the Transmission Control Protocol/Internet Protocol (TCP/IP) network protocol to communicate and download video/audio/data files to the docking server. It uses (key) type data encryption (Secure FTP) in its data transfer process.

Video, audio and/or auxiliary data transmission is enabled over the following connections:

- Local Area Network (LAN)/ Ethernet/ Gigabit Ethernet
- Wireless LAN (802.11a/b/g)
- Wirelessly (800MHz, 450MHz, Cellular, CDPD, GPRS, etc.)

The standard in-vehicle Mobile digital video unit is capable of initiating a wireless network connection or being accessed via a wireless connection to transmit preview video, and/or auxiliary data to a central monitoring station. It gives an audible and visual confirmation of the function selected when engaged and in operation, and offers male or female audible commands and supports multilingual capabilities (English is standard; French & Spanish can be provided)

### Mobile Digital Video System Data Recording/Archiving

<b>Storage Options</b>			
	<b>Description</b>	<b>Advantages</b>	<b>Best For</b>
<b>Standard</b>	Single drive storage	Base Model/Medium capacity	Standard public safety applications
<b>Dual Hard Drive</b>	Raid1 Dual Hard Drives	Redundant Hard Drives	Applications where data backup is critical
<b>Solid State Hard Drive</b>	Stress-tolerant hard drive	No moving parts: extremely rugged	Motorcycles, Helicopters, Boats, other high vibration vehicles
<b>High Capacity Hard Drive</b>	Extended storage hard drives	Stores up to 200GB of data; up to 100 days of storage	Departments which don't download daily, or more onboard storage capacity is required
<b>Video Transfer Methods</b>			
	<b>Description</b>	<b>Advantages</b>	<b>Best For</b>
<b>Wired</b>	DigitalPatroller docking station	Fastest transfer method	Larger departments and fleets where several cars may be downloading at one time
<b>Wireless</b>	Transfer via wireless access point	Easy, convenient	Smaller departments, where not many cars download at one time
<b>Removable</b>	Removable hard disk drive caddy with USB interface	Convenient / instant; no waiting for data to download	Offers another option for fast, easy download

The default configuration included in this proposal is a single automotive-grade 40 GB hard drive. This configuration will provide up to 36 hours of recording capacity assuming one camera at 720 x 480 @ 30 FPS. Other camera configurations, resolutions and frame rates will result in different recording capacities.

The standard in-vehicle Mobile digital video unit uses MPEG 4 ASP ISO-14496 compression standards for video.

The Mobile Digital Video Unit can be attached to and record from up to four (4) video cameras simultaneously depending on resolution and frame rate. The table below indicates the maximum resolution and frame rate for a given number of cameras.



Max Frame Rate per Video Input					
Format	Resolution	Video Inputs			
		1	2	3	4
NTSC	D1 (720 x 480)	30	-	30	-
	D1 (720 x 480)	15	15	15	15
	½ D1 (720 x 240)	30	30	30	30
	SIF (320 x 248)	30	30	30	30

DigitalPatroller captures data in a secure digital format using an SHA-1 secure digital hash.

The standard in-vehicle unit supports Linear Archiving Mode – the archiving will stop automatically once the hard disk(s) are full. Recording resumes once the video, audio and supporting data have been downloaded to the central storage system.

Three different recording modes are supported:

1. Manual Recording – Designed to instantly capture events through manual activation (via “record” button on control interface) of the in-vehicle Mobile digital video unit to capture video data at a standard rate of 30 frames per second
2. Triggered Recording – Designed to capture events on a triggered event such as activating the light bar, ignition activated, etc.
3. Passive Recording – Must be able to capture video, audio and/or auxiliary data for up to 300 seconds prior or after a triggered event.

Multiple data fields are supported, including but not limited to the vehicle number, time, date, vehicle speed, radar input speed, vehicle direction, vehicle global positioning coordinates, triggered mark points for post acquisition of evidence, document reference number (ticket or traffic report), officer identifications (such as name or badge number) and/or other pertinent information deemed necessary.

The control panel is able to indicate and select each individual camera in the system.

DigitalPatroller is capable of interfacing with an existing Windows based laptop PC. Authorized end users may view video, audio and auxiliary data and cannot alter, delete or other wise manipulate the data in anyway.

## Mobile Digital Video System Data Playback/Review

Once established at the docking station, the standard in-vehicle Mobile digital video unit can detect, authenticate and upon approval, transfer 1 hour of video, audio and/or auxiliary data to the local cache storage device within 50 seconds or less. When configured as recommended with a Dell PowerEdge server and gigabit network connection, the system can upload data from 4 cars simultaneously within 1 minute or less.

DigitalPatroller uses a separate, networked search server and is capable of authenticating user access for retrieval of archived data. The system is based on the Microsoft SQL platform, and includes data management software capable of searching archived data by unit number, camera, date/time, and/or other user defined search criteria.

The data management software provides for selective access to video files based upon user privileges. Administrators have the ability to restrict individual users to various types of stops, or to allow a single user access to all video.

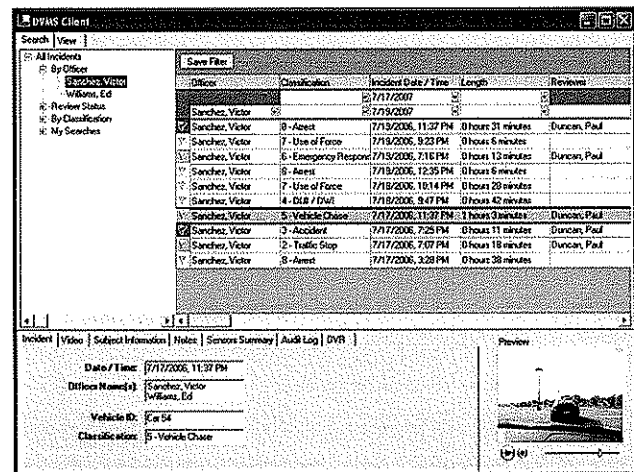
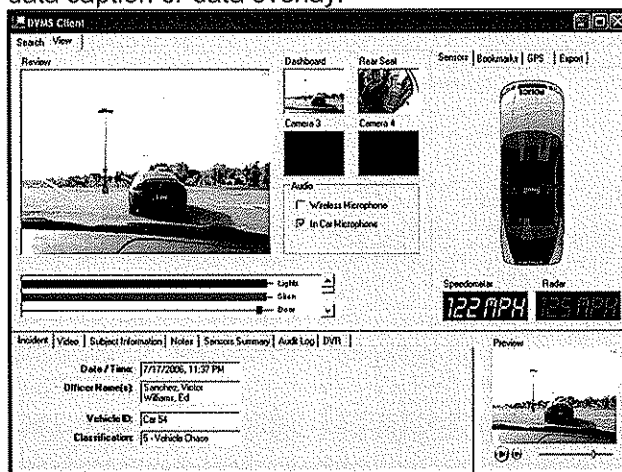
The system also includes player software with the ability to "zoom in" on a pre-selected section of the image then zoom back out.

In order to assist the end-user in identifying persons or objects, the DigitalPatroller software is capable of enhancing the selected video, **without altering the original data**. The enhancement function offers the end-user the ability to adjust the intensity, contrast, sharpness and/or color saturation of a single frame of video while maintaining the utmost evidentiary integrity.

Users can play a selected video file (single) automatically from start to finish, or view the selected file manually frame by frame.

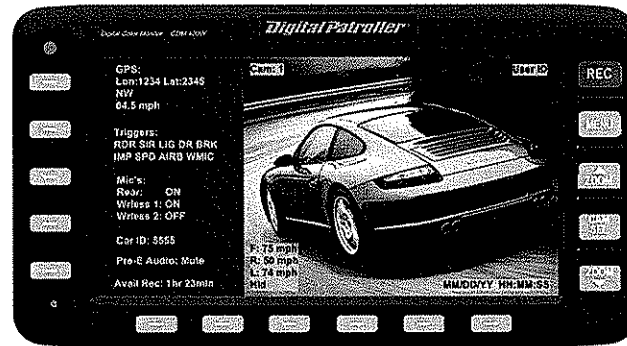
Copies of video files in .avi format can be produced for playback via Windows Media Player, Real Player or any other standard video software. The software also facilitates transfer of the video files to virtually any media including to CD, DVD, Zip Drives, VHS, Beta, etc. In addition, selected and enhanced video frames can be printed or saved to digital media or email.

Users can display vehicle speed (as derived from embedded GPS) on the playback software, and can choose to include the speed data on files transferred to the .avi format as well. Users have the choice of data caption or data overlay.



Software is under constant development, with plans for a feature restricting "standard" users to video from their own vehicle versus the full access given to command staff.

## Mobile Digital Video In-Vehicle Monitor & Control Interface



### **Monitor Specifications**

Dimensions	6.25"(w) x 4.5"(h) x 2.5"(d); 4.3" viewable LCD
Video Inputs	4
Remote Activation	Yes, via a single-touch call button
Remote Camera Zoom	Yes; single-touch button maintains maximum zoom for 5 seconds
Replay	Yes; single-touch replays previously recorded video session without the need to rewind
Resolution	600(h) x 234(v) pixels
Brightness	300 NIT or greater
Viewing Angle	110 degrees (h) x +35 degrees/-15 degrees

### Mobile Digital Video In-Vehicle Camera



#### **Standard Camera Specifications**

Image Sensor	1/4 Super HAD CCD
Number of Effective Pixels	752 (H) x 582 (V)
Lens	22x Zoom f=3.9 to 85.8mm (F1.6 to F3.0)
Optical Zoom	22x (220x with digital zoom)
Angle of View (H)	45 degree, 16' wide at 20' from object
Min. Object Distance	10mm (wide end), 1m (tele end)
Sync. System	Internal/External (V-Lock)
Min. Illumination	0.1 lux (normal shutter mode), 0.01 lux (digital slow shutter mode)
S/N Ratio	More than 52 dB
Electronic Shutter	1/60 to 1/50,000
White Balance	Auto, Indoor, Outdoor, One Push WB, Manual WB, Special
Gain	On/Auto/Off
AE Control	Auto, Manual, Iris Manual, AGC Manual
Back Light Compensation	On/Off
Focusing System	Auto, Manual, Push Auto
Video Output	VBS: 1.0 Vp-p (Sync. negative)
Camera Control Interface	System Software Control
Operating Temp	-10 to 50C
Weight	-13.69 ounces
Power Consumption	5 Watts Max (inactive motors), 12 VDC 2.9 Watts Max (heater), 5 VDC

The camera is equipped with the LED blinder, which provides indication to an officer when the system is recording and if he is in the camera view field.

***Optional Low Profile Camera Specifications***

Image Sensor	¼ EX VIEW HAD CCD
Number of Effective Pixels	752 (H) x 582 (V)
Lens	27x Zoom f=3.25 to 88mm (F1.5 to F3.6)
Optical Zoom	27x (270x with digital zoom)
Angle of View (H)	45 degree, 16' wide at 20' from object
Min. Object Distance	10mm (wide end), 1m (tele end)
Sync. System	Internal/External (V-Lock)
Min. Illumination	0.1 lux (normal shutter mode), 0.01 lux (digital slow shutter mode), 0 lux (infrared on), 0.005 lux (infrared off)
S/N Ratio	More than 52 dB
Electronic Shutter	1/60 to 1/50,000
White Balance	Auto, Indoor, Outdoor, One Push WB, Manual WB, Special
Gain	On/Auto/Off
AE Control	Auto, Manual, Iris Manual, AGC Manual
Back Light Compensation	On/Auto/Off/WDR
Focusing System	Auto, Manual, Push Auto
Video Output	VBS: 1.0 Vp-p (Sync. negative)
Camera Control Interface	System Software Control
Operating Temp	-10 to 50C
Weight	16.93 ounces
Power Consumption	5.3 Watts Max (zooming), 12 VDC 2.9 Watts Max (heater), 5 VDC

### Data Talker Wireless Microphone – Transmitter



Operating frequencies:	902-928 MHz
RF Power Output:	100 mW
Transmission:	Direct sequence spread spectrum (DSSS)
Antenna:	Internal
Ext. Mic Connector:	1/8" Mini Connector
Battery Indicator:	LED indicates battery condition (Low Battery)
Record Indicator:	LED Indicator
In-Use Indicator:	LED Indicator
Battery Life:	Approximately 8-10 Hours
Controls:	Talk On/Off / Power On/Off
Size:	1.75" x .75" x 2.5" inches
Weight:	7 ounces with battery and microphone

### Data Talker Wireless Microphone – Receiver

Operating frequencies:	902-928 MHz
Reception:	Direct sequence spread spectrum (DSSS)
Squelch systems:	12 million automatic security digital code system
Audio outputs:	100mV
Antenna input:	Built In
Indicators:	LED for battery charge LED indicates in-use status
Power Requirements:	12V DC
Power consumption:	110 mA
Weight:	10 ozs
Dimensions:	2.5 x 3.9 x 2.45 inches

## TECHNICAL COMPLIANCE

Item/Description	Compliance		Comments
	Yes	No	
<b>TECHNICAL SPECIFICATIONS</b>			
<b>1. DIGITAL SYSTEM AND COMPONENTS</b>			
1.1 The System shall be a complete in-car video system contained almost completely within the body of a replacement automobile rear-view mirror.	x		Partially Comply: Complete system but not contained almost completely within the body of a replacement automobile rear-view mirror.
1.2 The unit shall contain the digital video/audio recorder, storage memory, GPS receiver, wireless microphone receiver, video display, speaker, internal microphone, rear facing internal surveillance camera, IR LED's for internal illumination, and system controls.	x		
1.3 The unit shall utilize an extremely compact, high-quality, color, 120X zoom video camera, mounted in an external housing.	x		Exceed: 22x (220x with digital zoom)
1.4 The Mirror housing (Control Head) of the system shall be approximately 12" x 3.5" x 1" in size.		x	The monitor and control interface dimensions are 6.25"(w) x 4.5"(h) x 2.5"(d).
1.5 The shell / construction of the system shall be of Poly Carbonate / ABS high impact / high temp plastic.	x		
1.6 The weight of the mirror, including all contained system components shall be no more than approximately 12 oz.	x		Exceed: The monitor and control interface is 1.06 ounces (.03 kg)
1.7 The system shall have an operating temperature range of 32°F. to 122°F. (0°C to 50°C).	x		Exceed: -6C to 56C (22F to 132F)
1.8 The system shall be capable of recording pre-event data up to a minimum of 60 seconds.	x		Exceed: 5 minutes
1.9 The rear view mirror shall house a minimum of 3.5" diagonal, 640x480 Color TFT LCD monitor, which shall be mounted behind the mirror glass. The monitor shall be invisible when not in operation or when used in covert mode.	x		Partially comply: Does not mount behind the mirror glass. 600(H) x 234(V) pixels
1.10 The system must have a pass code administrative access security to gain access to the settings of the system to prevent changes of certain settings.	x		
1.11 The system must require a key to gain access to the memory slot area of the system.	x		
1.12 The video files must be watermarked to prevent tampering or alteration of the recordings.	x		

Item/Description	Compliance		Comments
	Yes	No	
1.13 The system must have the ability to mark a segment of video to show current GPS location.	x		
1.14 The system must have Auto-Zoom capability in which with the push of a button the camera Will Zoom in to a preset magnification auto focus, and then zoom back out to widest view.	x		
1.15 The system shall have the following minimum controls:			
1.15.1 Power On/Off	x		
1.15.2 Play	x		
1.15.3 Stop	x		
1.15.4 Record	x		
1.15.5 Rewind	x		
1.15.6 Fast forward	x		
1.15.7 In-Car Microphone – On/Off	x		
1.15.8 Volume Control for Playback, Internal and External Microphones	x		
1.16 The system shall have the ability and connectors for the following minimum connections:			
1.16.1 Power In	x		
1.16.2 Radar Gun Data In	x		
1.16.3 External Camera In	x		
1.16.4 External Microphone In	x		
1.16.5 Audio/Video Out	x		
1.16.6 Audio/Video In	x		
1.16.7 GPS Antenna In	x		
1.16.8 Triggers In	x		
1.16.9 USB 2.0 Port	x		
1.17 The system shall be capable of automatically entering Record mode from any of the following minimum triggers:			
1.17.1 Activation of emergency lights	x		
1.17.2 Activation of siren	x		
1.17.3 Pressing the Record button on the control system	x		
1.17.4 Activating Digital Wireless Microphone (DWM)			
1.18 The only method for the system to stop Recording shall be by pressing the 'STOP' button.	x		
1.19 The operator may stop the recording while the emergency vehicle lights and/or siren are still on.	x		
1.20 Recorded information cannot be overwritten while in the Digital Recorder, It may only be erased using the PC application program and must require a password.	x		
1.21 At a minimum, the following information shall be available to be recorded (Menu Selection) to the Compact Flash media and be stored as Metadata:	x		Partially comply: Removable hard drive is solid state.
1.21.1 Text- (ie: Officer Name, Vehicle ID, Agency, Etc.)	x		
1.21.2 Camera – F /R (Indication of which camera is recording)	x		



Item/Description	Compliance		Comments
	Yes	No	
1.21.3 Date / Time - MO/D,A/YR HR:MN	x		
1.21.4 GPS – GPS Information	x		
1.21.5 Radar Speeds - Patrol, Lock, Target	x		
1.21.6 Vehicle speed or UPS	x		
1.21.7 Light-bar Activated	x		
1.21.8 Brake Depressed	x		
1.21.9 Siren Activated	x		
1.21.10 Event Mark	x		
1.21.11 Internal Microphone On/Off	x		
1.21.12 Wireless Microphone On/Off	x		
1.22 The following information shall be displayed on the monitor, but not Recorded to the media:			
1.22.1 Record time left - A warning shall be displayed and sounded when there is 30 minutes of record time remaining and when there is 10 minutes of record time remaining.	x		
1.22.2 Low Battery Voltage warning	x		
1.22.3 Non-Operational Temperature warning – Out of Temperature Range	x		
1.23 The system shall be capable of the following minimum Display Functions, which are chosen by the administrator during setup:			
1.23.1 Text - Officer Name, Vehicle ID, Agency, Etc.	x		
1.23.2 Camera - CAM1	x		
1.23.3 Date / Time - MO/DA/YR HR:MN	x		
1.23.4 GPS – UPS Information	x		
1.23.5 Radar Speeds – Patrol and Target	x		
1.23.6 Patrol vehicles speed or GPS Speed	x		
1.23.7 Light-bar activated	x		
1.23.8 Brake depressed	x		
1.23.9 Siren activated	x		
1.23.10 Event Mark	x		
1.23.11 Internal Microphone On/Off	x		
1.23.12 Wireless Microphone On/Off	x		
1.24 The Main Menu of the system shall at a minimum display the Agency's Logo indications of Record Time remaining, Software Version, User Name Selection and Password.	x		
1.25 The Main Menu of the system shall control the following minimum functions:			
1.25.1 Playback Mode (Internal Mic Volume; Exterior Mic Volume)	x		
1.25.2 Camera (Day / Night; Auto Focus On / Off; Auto Zoom; LED's On / Off)	x		
1.25.3 Monitor (On / Off/ Auto; Brightness)	x		
1.25.4 Backlight (Brightness)	x		
1.25.5 Settings (Text; Date / Time; Display)	x		



Item/Description	Compliance		Comments
	Yes	No	
1.25.6 Text - On / Off	x		
1.25.7 Camera - On / Off 1.25.8 Date / Time - On / Off 1.25.9 GPS – On / Off	x		
1.25.10 Radar Speeds - On / Off	x		
1.25.11 Patrol vehicle speed or UPS Speed - On / Off	x		
1.25.12 Light-bar- On / Off 1.25.13 Brake On / Off 1.25.14 Siren – On / Off 1.25.15 Event Mark - On / Off	x		
1.25.16 Internal Microphone - On / Off	x		
1.25.17 Wireless Microphone - On / Off	x		
1.25.18 Resolution (Low; Medium; High)	x		
1.25.19 Record Triggers (Lights – Y / N; Siren – Y / N; Internal MIC)	x		
1.25.20 Pre-Event On / Off 1.25.21 External MIC	x		
1.25.22 Auto Activation On / Off 1.25.23 Radar Interface	x		
1.25.24 Disable Power Button – Y/N	x		
1.26 Internal memory for the time, date and settings shall be retained by a method (ie: lithium battery) to assure information is secure from loss for a minimum 8-year lifetime expectancy.	x		
<b>2. CAMERAS</b>			
<b>2.1 Main Camera</b>			
2.1.1 The main camera shall be no larger than 2" x 2" x 3" in size:		x	Dimension: (WxHxD) 56.2 x 64 x 101mm (2.2" x 2.5" x 4")
2.1.2 The weight of the camera shall be no more than approximately 6 oz.		x	13.69 ounces
2.1.3 The camera system shall have the following minimum Zoom functions:			
2.1.3.1 Press "ZOOM IN   OUT", Toggles between Zoom In / Out up to 12X digital.	x		Exceed: 22x (220x with digital zoom)
2.1.3.2 Press "Auto Zoom", Zooms in to preset magnification, auto -focuses and Zooms back out to widest setting.	x		
2.1.3.3 The system memorizes magnification after power is OFF, so when power is ON again, system sets same magnification as before.	x		
2.1.3.4 Auto Zoom Setting in MENU settings for fixed magnification.	x		
2.1.3.5 Auto Focus capabilities.			
2.1.4 The main camera must meet the following minimum specifications:			
2.1.4.1 Color CCD Sensor NTSC	x		
2.1.4.2 768x484 Pixels	x		Exceed: Number of Effective Pixels: (440,000) 752 (H) x 582 (V)
2.1.4.3 470 Lines Resolution	x		
2.1.4.4 10X Optical Zoom, 12X Digital Zoom; Total 120x Zoom	x		



Item/Description	Compliance		Comments
	Yes	No	
2.1.4.5 Auto Focus (manual via menu)	x		Exceed: 22x (220x with digital zoom)
2.1.4.6 View Angle -- 50.7 to 5.4 degrees	x		
2.1.4.7 1 LUX Standard Mode	x		Exceed: 0.1 lux (normal shutter mode), 0.01 lux (digital slow shutter mode)
2.1.4.8 .1 LUX Low Light (Night) Mode 2.1.4.9 50 dB SIN	x		Exceed: 0.1 lux (normal shutter mode), 0.01 lux (digital slow shutter mode)
2.2 Internal Camera			
2.2.1 The internal camera must meet the following minimum specifications:			
2.2.1.1 510x492 B&W CMOS Sensor (TV resolution)	x		
2.2.1.2 .01 LUX Sensitivity	x		
2.2.1.3 140 degree 4-Element Coated Glass Lens	x		
2.3 Other Cameras			
2.3.1 A jack must be provided for the input from an optional external video camera.	x		
3. MICROPHONE			
3.1 The system shall come equipped with both a digital wireless microphone (DWM) and an in-car microphone.	x		
3.2 The wireless microphone(s) and internal microphone must be recorded on separate audio channels.	x		
3.3 DIGITAL WIRELESS MICROPHONE (DWM)			
3.3.1 The DWM system shall utilize an integrated 900MHz, Digital Spread Spectrum, Dual Receiver Capable remote microphone system. This shall enable two officer-worn remote mics to be used at the same time.	x		
3.3.2 The nominal range of the DWM system shall be a minimum of 1,000 feet.	x		
3.3.3 The DWM system shall be capable of automatically finding a clear channel utilizing automatic frequency hopping.	x		
3.3.4 The DWM system shall be capable of automatic activation when Record Mode is activated, by pressing "Record" or by activation of any of the system activation triggers.	x		
3.3.5 The DWM shall have Low Battery, Operating State, and Out of Range indicators.	x		
3.3.6 The operator shall be able to remotely activate the system's RECORD mode by pressing a button on the DWM.	x		
3.3.7 Once the DWM transmitter is activated, it shall only be deactivated by stopping the RECORD function manually via the STOP button on the control head.	x		

Item/Description	Compliance		Comments
	Yes	No	
3.3.8 The DWM shall have an internal microphone and shall also be equipped with an external mic jack.	x		
3.3.9 The DWM transmitter shall be provided with a lavalier microphone and cable that is connected to the transmitter via a miniature connector.	x		
3.3.10 The DWM transmitter shall contain an internal antenna. Transmitters that rely on the microphone cable for an antenna, or which utilize an external antenna shall not be permitted.	x		
3.3.11 The DWM shall come with a re-chargeable battery and battery charger/docking station.	x		
3.4 In-Car Microphone			
3.4.1 There shall be a microphone mounted inside the Mirror body for interior audio recording.		x	
3.4.2 There shall be a microphone jack on the system for connecting a rear seat microphone. The actual microphone may be listed as optional equipment.	x		
4. GPS RECEIVER			
4.1 The unit shall include an integrated GPS receiver so the recorded video may be marked with real-time latitude and longitude (LAT/LONG) position data.	x		
4.2 The system must be capable of sharing the GPS receiver or antenna with other computerized devices in the vehicle.	x		
5. MEDIA / VIDEO STORAGE 5.1 Media			
5.1.1 The system shall use a common CF Flash card form factor memory module, with a minimum size of 1GB for video storage.	x		Partially Comply/Exceed: Removable solid state 4 GB hard drive
5.1.2 The system shall be capable of recording a minimum of 1hour/GB at High Resolution.	x		
5.1.3 The system shall be capable of recording a minimum of 2hours/GB at Medium Resolution.	x		
5.1.4 The system shall be capable of recording a minimum of 4hours/GB at Standard Resolution.	x		
5.2 Video			
5.2.1 Standard full speed video recordings are made at 30fps (frames per second), with recording speeds selected through a menu.	x		
5.2.2 The following minimum video storage resolutions shall be selectable through a menu;			
5.2.2.1 High 640x240 (full resolution)	x		Exceed: 720 x 480
5.2.2.2 Med 320x288 (CIF) 1M bits/sec	x		Exceed: 720 x 240
5.2.2.3 Low 320x288 (CIF) 512k bits/sec	x		Partially Comply: 320 x 248
5.2.3 The video storage format shall be MPEG 4.	x		
5.2.4 Video played back through the video port shall be at a minimum of 704x480,	x		Exceed: 720 x 240

Item/Description	Compliance		Comments
	Yes	No	
<b>6. SOFTWARE</b>			
6.1 System's Software required for downloading video data, archiving, reviewing, unit setting, unit management, and burning DVDs shall be provided with each unit ordered.	x		
6.2 The support for this software shall include version updates and be provided free of charge to the agency for the life of the system.	x		Partially Comply: Free of Charge while under warranty.
6.3 The system's operating software shall be capable of being field updated by loading encrypted code onto the memory card and inserting it into the unit.	x		
6.4 The system shall be capable of its initial setup by loading encrypted code onto the memory card and inserting it into the unit.	x		
<b>7. POWER REQUIREMENTS</b>			
7.1 The power supply for the system shall require no more than 4 amps, 10-13.8V DC supplied by the vehicle.	x		
7.2 The power supply must be heavily filtered and regulated to avoid interference.	x		
7.3 The system shall be fused between the battery (12v source) and the System.	x		
7.4 Over voltage protection and surge protection shall be provided.	x		
<b>8. WARRANTY AND REPAIR</b>			
8.1 The video system shall include a two-year limited parts and labor warranty against any defects in materials or workmanship on all System components.	x		
8.2 Extended Maintenance Agreements shall be available to the agency after the two year warranty expires.	x		
8.3 The warranty period shall begin from the date of installation.	x		
8.4 All shipping charges shall be the responsibility of the vendor during the warranty period.	x		
8.5 Manufacturer shall provide complete schematics, diagrams, service manuals and service bulletins on all provided electronic components.	x		
8.6 The manufacturer shall offer and provide when requested, at no additional cost training to Electronic Technicians of the West Virginia State Police (WVSP); the training needed to properly operate, repair and maintain proper operation of the manufacturer's video system and also provide complete maintenance manuals and schematics for the system covered in the training to each student attending the class. A non-disclosure agreement will be signed with the manufacturer and only systems owned and/or operated by the WVSP will be repaired by the WVSP.	x		An initial training session is provided at no charge.
8.7 This training must be available at the on-site location of the West Virginia State Police.	x		



## PRICING

### DigitalPatroller Pricing

Model #	Part #	Description	Qty	Price ea	Price ext
DP-2	900-000X	<b>DigitalPatroller Central Module with 4 GB Solid State Hard Drive</b> - 22x Optical Camera with Night-View and cable - LCD Control Interface and Cable - DataTalker Wireless Microphone with Home Charger and Leather Pouch - Covert Back Seat Microphone - Back Seat Camera - Trunk Mount Data Port - Mounting Hardware and Cables - GPS Antenna - Light bar record Trigger Cable - 2 Axis Crash Sensor (Impact Sensor) - Power filter - DigitalPatroller Operating System Software	1	\$4,570	\$4,570
DPDS-2	350-0008	<b>DPII Deluxe Software Suite</b> (licensed per DigitalPatroller Unit) - DPFinder - DPPlayer with data tagging feature - DPRetriever - Remote Laptop Software - Microsoft SQL Server 2000 Desktop Engine	1	\$200	\$200
DPEXS-2	DPEXS-2	2nd Year Extended Service & Support (per DP unit)	1	\$300	\$300
		<b>GPS Antenna Splitter</b>	1	\$200	\$200
		<b>Delivery</b>	1	\$25	\$25
		<b>Total:</b>			\$5,295



**Optional: Additional Years of Warranty Pricing**

Model #	Part #	Description	Qty	Price ea	Price ext
DPEXS-3	DPEXS-3	3rd Year Extended Service & Support (per DP unit)	1	\$350	\$350
DPEXS-4	DPEXS-4	4th Year Extended Service & Support (per DP unit)	1	\$400	\$400
<b>Total:</b>					\$750

**Optional: Storage Pricing**

Model #	Part #	Description	Qty	Price ea	Price ext
		Docking Station - Removable media	1	\$150	\$150
DSP-1	700-0022	Docking Station - Pole Mount, incl wall mount bracket (2 port connections)	1	\$225	\$225
	650-0217	Dell PowerEdge 840 Server (1600+ hrs RAID5) 2.13 GHZ Dual Core Xeon Processor; 1 GB RAM; 4x500GB SATA Drives; Win2003 Server; Keyboard; Mouse; 17" Flat Panel Monitor; 48x CD ROM (no burner); Tower Chassis, 3yr NBD onsite warranty.	1	\$4,800	\$4,800
Switch D-8	650-0024	8 Port Gigabit desktop switch for Dell GX620 and PE840 (1 per GX620 or PE800 server needed)	1	\$225	\$225
DPI-2	275-0032	Dell GX620 or PE840 Server Installation (Per Server)	1	\$500	\$500
<b>Total:</b>					\$5,900



511 Davis Drive, Ste. 300,  
Morrisville, NC 27560  
Ph: 919.472.5000  
[www.integrian.com](http://www.integrian.com)

## **ADDITIONAL REQUIREMENTS**

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The following items are included at the end of this response.

- RFQ Document





State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER
DPS0708

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1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BUYER 32 304-558-0492

RFQ COPY

TYPE NAME/ADDRESS HERE

**INTEGRIAN, INC**  
**511 DAVIS DR - SUITE 300**  
**MORRISVILLE, NC 27560**  
**ATTN: BOB BRADLEY**  
**919 472 5000**

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE  
 SOUTH CHARLESTON, WV  
 25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/09/2006				

BID OPENING DATE: **11/28/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LT		840-70	\$5295	\$5295
<p>REQUEST FOR QUOTATION</p> <p>THE PURCHASING DIVISION IS SOLICITING BIDS FOR THE WEST VIRGINIA STATE POLICE TO PROVIDE AN OPEN-END CONTRACT FOR COMPACT IN-CAR VIDEO SYSTEM.</p> <p>ATTACHMENTS:</p> <p>1. SPECIFICATIONS 2. AFFIDAVIT</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	919 472 5000	11/27/06
TITLE	FAX	ADDRESS CHANGES TO BE NOTED ABOVE
CEO	58-2484156	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

**SIGNED BID TO:**

Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER:
DPS0708

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ADDRESS CORRESPONDENCE TO ATTENTION OF:
BUYER 32 304-558-0492

RFQ COPY  
 TYPE NAME/ADDRESS HERE

VENDOR

*INTEGRIAN, INC*  
*511 DAVIS DR - SUITE 300*  
*MORRISVILLE, NC*  
*27560*

SHIP TO

WEST VIRGINIA STATE POLICE  
  
 4124 KANAWHA TURNPIKE  
 SOUTH CHARLESTON, WV  
 25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/09/2006				

BID OPENING DATE: 11/28/2006 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>( ) BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS.

SIGNATURE	TELEPHONE	DATE
<i>[Signature]</i>	919 472 5000	11/27/00
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
	58-2484156	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER
DPS0708

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3

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 INTEGRIAN, INC  
 511 DAVIS DR - SUITE 300  
 MORRISVILLE, NC  
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WEST VIRGINIA STATE POLICE

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<p>YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <u>INTEGRIAN, INC</u></p> <p>DATE: <u>11/27/06</u></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TITLE	FEIN	DATE
	CEO	58 2484156	11/27/06
ADDRESS CHANGES TO BE NOTED ABOVE			

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4

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VENDOR

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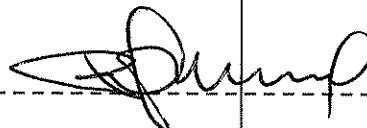
INTEGRIAN, INC  
 511 DAVIS DR - SUITE 300  
 MORRISVILLE, NC  
 27560

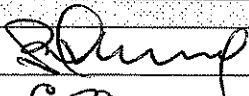
SHIP TO

WEST VIRGINIA STATE POLICE  
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BID OPENING DATE: 11/28/2006 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>SIGNED: </p> <p>TITLE: <u>CEO</u></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION          PURCHASING DIVISION          BUILDING 15          2019 WASHINGTON STREET, EAST          CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: _____</p> <p>RFQ. NO.: _____</p> <p>BID OPENING DATE: _____</p> <p>RON PRICE-----</p> <p>DPS0708-----</p> <p>11/28/2006-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE 	TELEPHONE 7194725000	DATE 11/27/06	
TITLE CEO	FEIN 582484156	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**DPS0708**

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**BUYER 32**  
**304-558-0492**

VENDOR

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 TYPE NAME/ADDRESS HERE  
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**511 DAVIS DR. - SUITE 300**  
**MORRISVILLE, NC**  
**27560**

SHIP TO

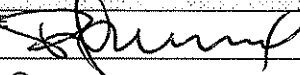
**WEST VIRGINIA STATE POLICE**  
  
**4124 KANAWHA TURNPIKE**  
**SOUTH CHARLESTON, WV**  
**25309**                      **304-746-2141**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/09/2006				

BID OPENING DATE: **11/28/2006**                      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING TIME:				1:30 PM-----		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: <b>919 472 5099</b>						
CONTACT PERSON (PLEASE PRINT CLEARLY):				<b>BOB BRADLEY</b>		
				<b>VP - SALES</b>		
***** THIS IS THE END OF RFQ					DPS0708 ***** TOTAL: <b>\$5295</b>	
* PLEASE SEE THE PRICING DETAIL SECTION OF THE RESPONSE						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE  TELEPHONE **919 472 5000** DATE **11/27/06**  
 TITLE **CEO** FEIN **58-2484156** ADDRESS CHANGES TO BE NOTED ABOVE

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## Compact Size Digital In-Car Video System Specifications

### A.) Purpose:

The purpose of these specifications is to establish a minimum standard of quality for Compact In-Car Digital Video Systems, hereinafter system. The intention is to insure that the West Virginia State Police, hereinafter Agency, is provided with a system that allows for effective recordings that will withstand the most rigorous of challenges in a court system. Additionally, the system will be simple to use, easy to install, reliable, and housed in a rear view mirror to accommodate the ever-changing police vehicle environment.

The awarded contract shall be available for use by this agency as well as all other entities of state government, and all counties and municipalities within the State Of West Virginia.

### B.) Scope:

The design of the system shall use state-of-the-art technology to include a microprocessor controlled logic control assembly, color camera, color monitor, wireless transmitter and protective enclosure for the Digital, electronics and receiver components. To ensure the system can be configured to fit within the widest range of vehicles; the majority of the system shall be housed in a rear view mirror, which replaces the factory installed rear view mirror. Only the main forward looking camera and the GPS antenna shall be external to the mirror body. The system shall utilize a common recording media such as a CF Flash card form factor memory module, with a minimum size of 1GB for video storage, which is readily available at retail establishments and which is the media is capable of easily being transferred to a CD or DVD through the utilization of laptop computer. The system must perform well when taken across rough terrain and when the vehicle is involved in a crash.

The **Enclosure** will house all of the critical components requiring environmental protection from extremes of heat, cold, and physical damage. The enclosure shall be designed so that extreme heat and cold environmental conditions do not affect the operation of the system. The enclosure must provide for easy removal and installation to facilitate maintenance requirements:

The **Camera** component will be a separate component to allow for flexibility of positioning in a variety of vehicles and must be simple to remove and install to facilitate maintenance requirements. The System must be able to function and record with the monitor in the "off" position (Covert Mode).

The **Wireless Microphone** component must be capable of working within the 900MHz or higher frequency range with Digital Spread Spectrum Technology to prevent false activations and distorted recordings due to other sources in close proximity. The system will include a mountable docking station capable of synchronizing with the wireless transmitter and acting as a recharging station. The wireless microphone will be capable of a continuous transmission for a minimum of 8-10 hours. The system will be capable of activating/deactivating the wireless microphone transmitter upon entering/leaving the record mode. The system shall be designed so that the wireless microphone may only be deactivated by stopping the record mode from the control panel of the system. The vehicle will have a forward facing (at all times) indicator to provide user confidence when outside the vehicle, that the wireless transmitter's signal is being received and the system is in record mode.

The **In Cabin Microphone** must be provided with the system. Activation and deactivation of the In Cabin microphone must be at the officer's control via the system's control panel.

The **Control Panel** will allow for the operation and playback of the system. Additionally, it must act as the *only* input for system programming operations. It must be simple to remove and install to facilitate maintenance requirements.

The **Monitor** must be a color LCD monitor with a minimum 3.5" diagonal display. It must include controls for picture brightness, volume and power. The monitor shall be mounted behind the mirror glass, and must be invisible when not in operation. The System must be able to function and record with the monitor in the "off" position (Covert Mode).

The **System's Software** required for downloading video data, archiving, reviewing, unit setting, unit management, and burning DVDs shall be provided with each unit ordered. The support for this software shall include version updates and be provided free of charge to the agency for the life of the system. The system's operating software shall be capable of being field updated by loading encrypted code onto the memory card and inserting it into the unit. The system shall also be capable of its initial setup in this same manner.

**C.) In-Car Digital Video Bid Requirements:**

The equipment offered will be in full commercial production. No "brand new" or prototype models will be considered. When requested, proof of current sales and delivery of the specified equipment over the past 6 months will be provided, in writing, referencing current customers with contacts and phone numbers for verification.

When requested by the Agency, the bidder shall furnish a complete sample unit at no charge within 10 days of the request for evaluation purposes.

**D.) Format of Alternate Product Bid Responses:**

For "alternate product bids" bidder shall submit their response utilizing the bid response sheet contained within these specifications. Bidders shall indicate either "yes" or "no" by placing a mark on the appropriate line associated with each specification. Vendors not complying with this will not be considered for bid award. Specifications in which a Vendor checks "No" requires the vendor to indicate on a separate page labeled "Exceptions" the exact specification and deviation from the specification as to why their product does not meet or exceed the specification. Products not meeting or exceeding these specifications will be eliminated from consideration.

*Note: Bidders returning only information concerning their products without addressing each of the following specification requirements shall be eliminated from consideration as non-responsive.*

*The Agency reserves the right to terminate the contract for unacceptable performance according to specifications, untimely delivery times on product, or lack of technical support.*

*The contract will be awarded to the vendor bidding the product with the lowest cost and meeting the specifications as set forth in this RFQ.*



\* PLEASE SEE THE TECHNICAL COMPLIANCE SECTION OF THE RESPONSE.

TECHNICAL SPECIFICATIONS

1. DIGITAL SYSTEM AND COMPONENTS

	Comply?	
	Yes	No
1.1 The System shall be a complete in-car video system contained almost completely within the body of a replacement automobile rear-view mirror.	_____	_____
1.2 The unit shall contain the digital video/audio recorder, storage memory, GPS receiver, wireless microphone receiver, video display, speaker, internal microphone, rear facing internal surveillance camera, IR LED's for internal illumination, and system controls.	_____	_____
1.3 The unit shall utilize an extremely compact, high-quality, color, 120X zoom video camera, mounted in an external housing.	_____	_____
1.4 The Mirror housing (Control Head) of the system shall be approximately 12" x 3.5" x 1" in size.	_____	_____
1.5 The shell / construction of the system shall be of Poly Carbonate / ABS high impact / high temp plastic.	_____	_____
1.6 The weight of the mirror, including all contained system components shall be no more than approximately 12 oz.	_____	_____
1.7 The system shall have an operating temperature range of 32°F to 122°F (0°C to 50°C).	_____	_____
1.8 The system shall be capable of recording pre-event data up to a minimum of 60 seconds.	_____	_____
1.9 The rear view mirror shall house a minimum of 3.5" diagonal, 640x480 Color TFT LCD monitor, which shall be mounted behind the mirror glass. The monitor shall be invisible when not in operation or when used in covert mode.	_____	_____
1.10 The system must have a pass code administrative access security to gain access to the settings of the system to prevent changes of certain settings.	_____	_____
1.11 The system must require a key to gain access to the memory slot area of the system.	_____	_____
1.12 The video files must be watermarked to prevent tampering or alteration of the recordings.	_____	_____
1.13 The system must have the ability to mark a segment of video to show current GPS location.	_____	_____

		Comply?	
		<u>Yes</u>	<u>No</u>
1.14	The system must have Auto-Zoom capability in which with the push of a button the camera will Zoom in to a preset magnification auto focus, and then zoom back out to widest view.	_____	_____
1.15	The system shall have the following minimum controls:		
1.15.1	Power On/Off	_____	_____
1.15.2	Play	_____	_____
1.15.3	Stop	_____	_____
1.15.4	Record	_____	_____
1.15.5	Rewind	_____	_____
1.15.6	Fast forward	_____	_____
1.15.7	In-Car Microphone – On/Off	_____	_____
1.15.8	Volume Control for Playback, Internal and External Microphones	_____	_____
1.16	The system shall have the ability and connectors for the following minimum connections:		
1.16.1	Power In	_____	_____
1.16.2	Radar Gun Data In	_____	_____
1.16.3	External Camera In	_____	_____
1.16.4	External Microphone In	_____	_____
1.16.5	Audio/Video Out	_____	_____
1.16.6	Audio/Video In	_____	_____
1.16.7	GPS Antenna In	_____	_____
1.16.8	Triggers In	_____	_____
1.16.9	USB 2.0 Port	_____	_____
1.17	The system shall be capable of automatically entering Record mode from any of the following minimum triggers:		
1.17.1	Activation of emergency lights	_____	_____
1.17.2	Activation of siren	_____	_____
1.17.3	Pressing the Record button on the control system	_____	_____
1.17.4	Activating Digital Wireless Microphone (DWM)	_____	_____
1.18	The only method for the system to stop Recording shall be by pressing the 'STOP' button.	_____	_____
1.19	The operator may stop the recording while the emergency vehicle lights and/or siren are still on.	_____	_____
1.20	Recorded information cannot be overwritten while in the Digital Recorder. It may only be erased using the PC application program and must require a password.	_____	_____

Comply?  
Yes    No

1.21 At a minimum, the following information shall be available to be recorded (Menu Selection) to the Compact Flash media and be stored as Metadata:

- 1.21.1 Text – (ie: Officer Name, Vehicle ID, Agency, Etc.) \_\_\_\_\_
- 1.21.2 Camera – F /R (Indication of which camera is recording) \_\_\_\_\_
- 1.21.3 Date / Time - MO/DA/YR HR:MN \_\_\_\_\_
- 1.21.4 GPS – GPS Information \_\_\_\_\_
- 1.21.5 Radar Speeds - Patrol, Lock, Target \_\_\_\_\_
- 1.21.6 Vehicle speed or GPS \_\_\_\_\_
- 1.21.7 Light-bar Activated \_\_\_\_\_
- 1.21.8 Brake Depressed \_\_\_\_\_
- 1.21.9 Siren Activated \_\_\_\_\_
- 1.21.10 Event Mark \_\_\_\_\_
- 1.21.11 Internal Microphone On/Off \_\_\_\_\_
- 1.21.12 Wireless Microphone On/Off \_\_\_\_\_

1.22 The following information shall be displayed on the monitor, but not Recorded to the media:

- 1.22.1 Record time left - A warning shall be displayed and sounded when there is 30 minutes of record time remaining and when there is 10 minutes of record time remaining. \_\_\_\_\_
- 1.22.2 Low Battery Voltage warning \_\_\_\_\_
- 1.22.3 Non-Operational Temperature warning – Out of Temperature Range \_\_\_\_\_

1.23 The system shall be capable of the following minimum Display Functions, which are chosen by the administrator during setup:

- 1.23.1 Text - Officer Name, Vehicle ID, Agency, Etc. \_\_\_\_\_
- 1.23.2 Camera - CAM1 \_\_\_\_\_
- 1.23.3 Date / Time - MO/DA/YR HR:MN \_\_\_\_\_
- 1.23.4 GPS – GPS Information \_\_\_\_\_
- 1.23.5 Radar Speeds – Patrol and Target \_\_\_\_\_
- 1.23.6 Patrol vehicles speed or GPS Speed \_\_\_\_\_
- 1.23.7 Light-bar activated \_\_\_\_\_
- 1.23.8 Brake depressed \_\_\_\_\_
- 1.23.9 Siren activated \_\_\_\_\_
- 1.23.10 Event Mark \_\_\_\_\_
- 1.23.11 Internal Microphone On/Off \_\_\_\_\_
- 1.23.12 Wireless Microphone On/Off \_\_\_\_\_

1.24 The Main Menu of the system shall at a minimum display the Agency's Logo indications of Record Time remaining, Software Version, User Name Selection and Password. \_\_\_\_\_

		Comply?	
		<u>Yes</u>	<u>No</u>
1.25	The Main Menu of the system shall control the following minimum functions:		
1.25.1	Playback Mode (Internal Mic Volume; Exterior Mic Volume)	_____	_____
1.25.2	Camera (Day / Night; Auto Focus On / Off; Auto Zoom; LED's On / Off)	_____	_____
1.25.3	Monitor (On / Off / Auto; Brightness)	_____	_____
1.25.4	Backlight (Brightness)	_____	_____
1.25.5	Settings (Text; Date / Time; Display)	_____	_____
1.25.6	Text - On / Off	_____	_____
1.25.7	Camera - On / Off	_____	_____
1.25.8	Date / Time - On / Off	_____	_____
1.25.9	GPS - On / Off	_____	_____
1.25.10	Radar Speeds - On / Off	_____	_____
1.25.11	Patrol vehicle speed or GPS Speed - On / Off	_____	_____
1.25.12	Light-bar- On / Off	_____	_____
1.25.13	Brake - On / Off	_____	_____
1.25.14	Siren - On / Off	_____	_____
1.25.15	Event Mark - On / Off	_____	_____
1.25.16	Internal Microphone - On / Off	_____	_____
1.25.17	Wireless Microphone - On / Off	_____	_____
1.25.18	Resolution (Low; Medium; High)	_____	_____
1.25.19	Record Triggers (Lights - Y / N; Siren - Y / N; Internal MIC)	_____	_____
1.25.20	Pre-Event On / Off	_____	_____
1.25.21	External MIC	_____	_____
1.25.22	Auto Activation On / Off	_____	_____
1.25.23	Radar Interface	_____	_____
1.25.24	Disable Power Button - Y/N	_____	_____
1.26	Internal memory for the time, date and settings shall be retained by a method (ie: lithium battery) to assure information is secure from loss for a minimum 8-year lifetime expectancy.	_____	_____

2. CAMERAS

2.1 Main Camera

2.1.1	The main camera shall be no larger than 2" x 2" x 3" in size:	_____	_____
2.1.2	The weight of the camera shall be no more than approximately 6 oz.	_____	_____
2.1.3	The camera system shall have the following minimum Zoom functions:		
2.1.3.1	Press "ZOOM IN / OUT", Toggles between Zoom In / Out up to 12X digital.	_____	_____

Comply?

Yes      No

- 2.1.3.2 Press "Auto Zoom", Zooms in to preset magnification, auto focuses and Zooms back out to widest setting. \_\_\_\_\_
- 2.1.3.3 The system memorizes magnification after power is OFF, so when power is ON again, system sets same magnification as before. \_\_\_\_\_
- 2.1.3.4 Auto Zoom Setting in MENU settings for fixed magnification. \_\_\_\_\_
- 2.1.3.5 Auto Focus capabilities. \_\_\_\_\_
- 2.1.4 The main camera must meet the following minimum specifications:
  - 2.1.4.1 Color CCD Sensor NTSC \_\_\_\_\_
  - 2.1.4.2 768x484 Pixels \_\_\_\_\_
  - 2.1.4.3 470 Lines Resolution \_\_\_\_\_
  - 2.1.4.4 10X Optical Zoom, 12X Digital Zoom; Total 120x Zoom \_\_\_\_\_
  - 2.1.4.5 Auto Focus (manual via menu) \_\_\_\_\_
  - 2.1.4.6 View Angle – 50.7 to 5.4 degrees \_\_\_\_\_
  - 2.1.4.7 1 LUX Standard Mode \_\_\_\_\_
  - 2.1.4.8 .1 LUX Low Light (Night) Mode \_\_\_\_\_
  - 2.1.4.9 50 dB S/N \_\_\_\_\_

2.2 Internal Camera

- 2.2.1 The internal camera must meet the following minimum specifications:
  - 2.2.1.1 510x492 B&W CMOS Sensor (TV resolution) \_\_\_\_\_
  - 2.2.1.2 .01 LUX Sensitivity \_\_\_\_\_
  - 2.2.1.3 140 degree 4-Element Coated Glass Lens \_\_\_\_\_

2.3 Other Cameras

- 2.3.1 A jack must be provided for the input from an optional external video camera. \_\_\_\_\_

3. MICROPHONE

- 3.1 The system shall come equipped with both a digital wireless microphone (DWM) and an in-car microphone. \_\_\_\_\_
- 3.2 The wireless microphone(s) and internal microphone must be recorded on separate audio channels. \_\_\_\_\_

Comply?  
Yes    No

3.3 DIGITAL WIRELESS MICROPHONE (DWM)

3.3.1 The DWM system shall utilize an integrated 900MHz, Digital Spread Spectrum, Dual Receiver Capable remote microphone system. This shall enable two officer-worn remote mics to be used at the same time. \_\_\_\_\_

3.3.2 The nominal range of the DWM system shall be a minimum of 1000 feet. \_\_\_\_\_

3.3.3 The DWM system shall be capable of automatically finding a clear channel utilizing automatic frequency hopping. \_\_\_\_\_

3.3.4 The DWM system shall be capable of automatic activation when Record Mode is activated, by pressing "Record" or by activation of any of the system activation triggers. \_\_\_\_\_

3.3.5 The DWM shall have Low Battery, Operating State, and Out of Range indicators. \_\_\_\_\_

3.3.6 The operator shall be able to remotely activate the system's RECORD mode by pressing a button on the DWM. \_\_\_\_\_

3.3.7 Once the DWM transmitter is activated, it shall only be deactivated by stopping the RECORD function manually via the STOP button on the control head. \_\_\_\_\_

3.3.8 The DWM shall have an internal microphone and shall also be equipped with an external mic jack. \_\_\_\_\_

3.3.9 The DWM transmitter shall be provided with a lavalier microphone and cable that is connected to the transmitter via a miniature connector. \_\_\_\_\_

3.3.10 The DWM transmitter shall contain an internal antenna. Transmitters that rely on the microphone cable for an antenna, or which utilize an external antenna shall not be permitted. \_\_\_\_\_

3.3.11 The DWM shall come with a re-chargeable battery and battery charger/docking station. \_\_\_\_\_

3.4 In-Car Microphone

3.4.1 There shall be a microphone mounted inside the Mirror body for interior audio recording. \_\_\_\_\_

Comply?  
Yes    No

3.4.2 There shall be a microphone jack on the system for connecting a rear seat microphone. The actual microphone may be listed as optional equipment.

\_\_\_\_\_

**4. GPS RECEIVER**

4.1 The unit shall include an integrated GPS receiver so the recorded video may be marked with real-time latitude and longitude (LAT/LONG) position data.

\_\_\_\_\_

4.2 The system must be capable of sharing the GPS receiver or antenna with other computerized devices in the vehicle.

\_\_\_\_\_

**5. MEDIA / VIDEO STORAGE**

5.1 Media

5.1.1 The system shall use a common CF Flash card form factor memory module, with a minimum size of 1GB for video storage.

\_\_\_\_\_

5.1.2 The system shall be capable of recording a minimum of 1hour/GB at High Resolution.

\_\_\_\_\_

5.1.3 The system shall be capable of recording a minimum of 2hours/GB at Medium Resolution.

\_\_\_\_\_

5.1.4 The system shall be capable of recording a minimum of 4hours/GB at Standard Resolution.

\_\_\_\_\_

5.2 Video

5.2.1 Standard full speed video recordings are made at 30fps (frames per second), with recording speeds selected through a menu.

\_\_\_\_\_

5.2.2 The following minimum video storage resolutions shall be selectable through a menu:

5.2.2.1 High 640x240 (full resolution)

\_\_\_\_\_

5.2.2.2 Med 320x288 (CIF) 1M bits/sec

\_\_\_\_\_

5.2.2.3 Low 320x288 (CIF) 512k bits/sec

\_\_\_\_\_

5.2.3 The video storage format shall be MPEG 4.

\_\_\_\_\_

5.2.4 Video played back through the video port shall be at a minimum of 704x480.

\_\_\_\_\_

Comply?  
Yes    No

## 6. SOFTWARE

- |     |  |       |       |
|-----|--|-------|-------|
| 6.1 | System's Software required for downloading video data, archiving, reviewing, unit setting, unit management, and burning DVDs shall be provided with each unit ordered. | _____ | _____ |
| 6.2 | The support for this software shall include version updates and be provided free of charge to the agency for the life of the system.                                   | _____ | _____ |
| 6.3 | The system's operating software shall be capable of being field updated by loading encrypted code onto the memory card and inserting it into the unit.                 | _____ | _____ |
| 6.4 | The system shall be capable of its initial setup by loading encrypted code onto the memory card and inserting it into the unit.  | _____ | _____ |

## 7. POWER REQUIREMENTS

- |     |   |       |       |
|-----|---|-------|-------|
| 7.1 | The power supply for the system shall require no more than 4 amps, 10-13.8V DC supplied by the vehicle. | _____ | _____ |
| 7.2 | The power supply must be heavily filtered and regulated to avoid interference.                          | _____ | _____ |
| 7.3 | The system shall be fused between the battery (12v source) and the System.                              | _____ | _____ |
| 7.4 | Over voltage protection and surge protection shall be provided.   | _____ | _____ |

## 8. WARRANTY AND REPAIR

- |     |  |       |       |
|-----|--|-------|-------|
| 8.1 | The video system shall include a two-year limited parts and labor warranty against any defects in materials or workmanship on all System components. | _____ | _____ |
| 8.2 | Extended Maintenance Agreements shall be available to the agency after the two year warranty expires.  | _____ | _____ |
| 8.3 | The warranty period shall begin from the date of installation.   | _____ | _____ |
| 8.4 | All shipping charges shall be the responsibility of the vendor during the warranty period.   | _____ | _____ |
| 8.5 | Manufacturer shall provide complete schematics, diagrams, service manuals and service bulletins on all provided electronic components.               | _____ | _____ |



Comply?

Yes      No

8.6 The manufacturer shall offer and provide when requested, at no additional cost training to Electronic Technicians of the West Virginia State Police (WVSP); the training needed to properly operate, repair and maintain proper operation of the manufacturer's video system and also provide complete maintenance manuals and schematics for the system covered in the training to each student attending the class. A non-disclosure agreement will be signed with the manufacturer and only systems owned and/or operated by the WVSP will be repaired by the WVSP.

\_\_\_\_\_

8.7 This training must be available at the on-site location of the West Virginia State Police.

\_\_\_\_\_

RFQ No. DPS 0708

# AFFIDAVIT

**West Virginia Code §5A-3-10a states:**

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:**

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**LICENSING:**

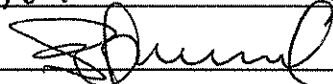
Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: INTEGRIAN INC

Authorized Signature:  CEO Date: 11-27-06