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## 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 Viginia 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.

# **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

Rev. 06/21/2006

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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 there 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.

# **TECHNICAL SPECIFICATIONS**

# 1. DIGITAL SYSTEM AND COMPONENTS

- 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.

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- page 9 Comply? <u>Yes No</u> 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.
- 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.

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- 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.



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page 11

Comply? Yes

# 1.25 The Main Menu of the system shall control the following minimum functions:

				$\mathbf{v}$	
		1.25.1	Playback Mode (Internal Mic Volume; Exterior Mic Volume)		
		1.25.2	Camera (Day / Night; Auto Focus On / Off; Auto Zoom;	<u> </u>	
			LED's On / Off)	<i></i>	
		1.25.3	Monitor (On / Off / Auto; Brightness)	-	
		1.25.4	Backlight (Brightness)	<u> </u>	<u></u>
		1.25.5	Settings (Text; Date / Time; Display)	<u> </u>	·····
		1.25.6	Text - On / Off	<u> </u>	********
		1.25.7	Camera - On / Off	<u> </u>	
		1.25.8	Date / Time - On / Off	<u> </u>	
		1.25.9		<u> </u>	
			Radar Speeds - On / Off		
			Patrol vehicle speed or GPS Speed - On / Off	X	
			Light-bar- On / Off	×_	
			Brake – On / Off	<u> </u>	
			Siren – On / Off	<u> </u>	
			Event Mark - On / Off		
		1.25.16	Internal Microphone - On / Off	<u>_X</u>	
			Wireless Microphone - On / Off	<u> </u>	
			Resolution (Low; Medium; High)	<u>    X     </u>	<u></u>
			Record Triggers (Lights - Y / N; Siren - Y / N; Internal MIC)	<u> </u>	*******
			Pre-Event On / Off	_X_	
			External MIC	<u> </u>	
			Auto Activation On / Off		
			Radar Interface	×	
		1.25.24	Disable Power Button – Y/N	<u> </u>	
	1 26	Internal	memory for the time, date and settings shall be retained by a	X	
	1.20	method	(ie: lithium battery) to assure information is secure from loss for		
			num 8-year lifetime expectancy.		
2.	<u>CAM</u>	ERAS			
	<b>A</b> -				
	2.1	Main Ca	amera		

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

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page 12 Comply? Yes No 2.1.3.2 Press "Auto Zoom", Zooms in to preset magnification,  $\mathbf{X}$ 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. Auto Zoom Setting in MENU settings for fixed 2.1.3.4 magnification. 2.1.3.5 Auto Focus capabilities. The main camera must meet the following minimum 2.1.4 specifications: Color CCD Sensor NTSC 2.1.4.1 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 The internal camera must meet the following minimum 2.2.1 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 X A jack must be provided for the input from an optional external 2.3.1 video camera. 3. MICROPHONE  $\times$ The system shall come equipped with both a digital wireless 3.1 microphone (DWM) and an in-car microphone. X The wireless microphone(s) and internal microphone must be recorded 3.2 on separate audio channels.

# 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 lavaliere 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.

page 13 Comply? Yes No

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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

# 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

optional equipment.

- 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.



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# 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.

page 15 Comply? Yes No

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- page 16 Comply? <u>Yes No</u>
- 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.

page 17 REQ NO. DPS0708

# 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** 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: Digital	Ally Inc.		
Authorized Signature:	ma	Date: <u>11 - 20 - 200</u>	6
No Debt Affidavit (Revised 10/13/06)	$\square$		

# Digital Ally Rear View Mirror (DVM) In-Car Video System Specifications

# Model: DVM-500

#### **Description:**

The DVM is a complete digital in-car video system integrated into a replacement automobile rear-view mirror. The unit contains the digital video/audio recorder, solid state storage memory, GPS receiver, wireless microphone receiver, 3.5" color monitor, speaker, internal microphone, rear facing internal surveillance camera, IR LED's for internal illumination, and system controls. An extremely compact, high-quality, color, 120X zoom video camera is mounted in an external cabinet.

## Size:

Mirror – Approx. 12"x3.5"x1" Camera – 2"x2"x3"

**Body Shell / Construction:** 

100% Poly Carbonate

#### Weight:

Mirror- Approx. 12 oz. Camera – Approx. 6 oz

#### **Power:**

1 amp 10-13.8V DC supplied by vehicle. Supply is heavily filtered and regulated to avoid interference.

# **Operating Temperature Range:**

-4F to167F

# **Pre-Event Recording Time:**

Up to 60 seconds

#### **Monitor:**

3.5" diagonal, 640x480 Color TFT LCD mounted behind mirror glass. Monitor is invisible when not in operation.

#### **Cameras:**

Main Camera Color CCD Sensor NTSC 768x484 Pixels 470 Lines Resolution 10X Optical Zoom, 12X Digital Zoom; Total 120x Zoom Auto Focus (manual via menu) View Angle - 50.7 to 5.4 degrees 1 LUX Standard Mode .1 LUX Low Light (Night) Mode 50 dB S/N Internal Camera 510x492 B&W CMOS Sensor (TV resolution) .01 LUX Sensitivity 140 degree 4-Element Coated Glass Lens Other Cameras A jack is provided for the input from an optional external video camera.

#### **Recording Modes (menu selectable):**

Recordings are made 30 fps (frames per second). This is standard full speed video.

# Video Storage Resolutions (menu selectable):

High 640x240 (full resolution) Med 320x288 (CIF) 1M bits/sec Low 320x288 (CIF) 512k bits/sec

#### Video Storage Format:

MPEG 4

# Media Storage Capacity:

The DVM uses a common 4 GB CF Flash card form factor memory module. Flash Memory cards are more physically durable than micro drives or hard drives. Flash from 1GB to 4GB are commonly available. High Resolution is 1hour/GB. Med Resolution is 2hours/GB. Std Resolution is 4hours/GB.

# **Wireless Microphones:**

Unit comes with an integrated 900MHz, Spread Spectrum, Dual Receiver Capable Remote Microphone System.

Two officer-worn remote mics can be used at the same time

Nominal range of the system is 1000 feet

Automatically finds a clear channel utilizing automatic frequency hopping.

Automatic Activation when Record Mode is activated.

Low Battery/Operating State/Out of Range Indicatiors

On/Off/Standby Operation

1000 ft. minimum range

Internal Microphone with external mic jack option

Re-chargeable battery and battery charger/docking station.

Fixed Microphone:

A fixed microphone is mounted inside the Mirror body for interior audio recording. An optional rear seat microphone jack is provided and the unit can be ordered with the rear seat microphone if interior built in microphone is not sufficient.

The wireless microphone(s) and internal microphone are recorded on separate audio channels

#### **GPS Receiver:**

The unit includes an integrated GPS receiver so that the recorded video may be marked with realtime (LAT/LONG) position data.

# Security / Chain-of-Custody:

Access to settings requires a pass code

Access to the memory slot requires a key

The video files are watermarked to prevent tampering or alteration

Only the administrator can change certain settings

# **Controls and Indicators:**

System Triggers

Inputs are provided for triggering the recorder automatically by activating lights or siren System can also be triggered by pressing REC button or Activating External Transmitter.

REC Button - RED Button

Triggers Recoding in the mode present in the menu. The Pre-Event buffer is saved if this option has been set in the menu. The Red indicator LED on the front of the unit and Red Record LED on the back of the unit are both turned ON.

# MARK Button – Green

Powers unit On / Off. Places a flag for the current GPS position in the video data AUTO ZOOM Button

# Zooms in to a preset magnification auto focus, then zooms back out to widest view.

# T/W / PLAY - ZOOM In/Out

Allows manual Zoom-In /Out of camera both live and record modes, Toggles between modes. Playback Mode menu selectable: Executes commands in Menu Mode and toggles Play/Pause in video playback mode.

#### STOP Button

Acts as "cancel" in Menu Mode Stops video in Playback Mode

# CAM / REV / DOWN Button

Toggles Front / Rear Camera Moves Down in Menu Mode Moves in Reverse in Playback Mode 5x, 10x, 20x

Indexes Backwards

# MIC / FWD / UP Button

Turns Interior MIC On / Off Moves Up in Menu Mode Moves Forward in Playback Mode 5x, 10x, 20x Indexes Forward

#### **MENU Button**

Toggles menu display on monitor. Turns monitor ON if display is off. Hold for 2 secs to activate Covert Mode

# POWER SWITCH

Hidden Power switch physically removes connection to supply power. Ability to Disable Power Switch Menu Function

# **MENU Functions:**

**DISPLAY** Function

Access settings menu

#### Volume External MIC

Adjust playback volume of external microphone

# **Connectors and Cables:**

Power In

Radar Gun Data In External Camera In External Microphone In Audio/Video Out Audio/Video In GPS Antenna In **Triggers** In USP 2.0 Port

## Installation:

The entire unit fits in a Rear View Mirror that replaces the factory installed rear view mirror. There are no hidden components that have to be mounted in the trunk, on the headliner, in the dash, console, radio rack or under the seat. Only the main forward looking camera and the GPS antenna are external to the mirror body. Installation is quick, simple, and requires a minimum amount of labor. The entire system takes up no addition "real estate" in the vehicle and therefore avoids conflicts with other equipment, including the new fire suppression systems, accessory controls, etc.

# **Software Support:**

Back-Office support software is provided for downloading video data, archiving, reviewing, burning DVDs and file management. The on-board operating software can be field updated by loading encrypted code onto the memory card and inserting it into the unit. Full Resolution means that the data is stored digitally at 640x240. When played back through the video port, the image is 704x480 (D1). The CIF resolutions are what most digital in-car video systems use. The number of "pixels" stays the same, but the "data rate" changes. The higher the data rate, the better the video quality and the more detail which can be discerned.

#### **Record Functions:**

The system starts recording automatically with the following triggers; 'Light-bar' ON; 'Siren' ON; Activation of wireless transmitter; Optional Crash Sensor Stop recording can only be accomplished by pressing 'STOP' button. In Menu, the operator can set trigger events On or Off.

#### Information Recorded to Compact Flash and Searchable Metadata:

The following information can be toggled On/Off on the monitor

User ID Vehicle ID Camera – F / R Date / Time - MO/DA/YR HR:MN GPS – GPS Information Radar Speeds - Patrol, Lock, Target Vehicle Speed Light-bar Brake Siren Event Mark Internal Microphone Wireless Microphone

# Additional Information Displayed but not Recorded:

- 1. Record time left A warning is displayed and sounded when there is 30 minutes of record time remaining and when there is 5 minutes of record time remaining
- 2. Non-Operational Temperature warning Out of Temperature Range
- 3. Other error messages

# **Other features:**

\*The operator may stop the recording while the emergency vehicle lights and/or sirens are still on (menu selectable)

\*Recorded information cannot be overwritten while in the Digital Recorder. It can only be erased using the PC application program and requires a password.

# **Camera Functions:**

ZOOM functions

Press "ZOOM IN / OUT", Toggles between Zoom In / Out up to 10X optical Press "AUTO ZOOM", Zooms in to preset magnification, auto focuses and Zooms back out to widest setting.

The system memorizes magnification after power is OFF, so when power is ON again, system sets same magnification as before.

Auto Zoom Setting is in MENU Setting for fixed magnification Auto Focus On/Off

# **Display Functions:**

User ID Vehicle ID Camera – Front/Rear Date / Time - MO/DA/YR HR:MN GPS – GPS Information Radar Speeds - Patrol, Lock, Target Self-vehicle speed Light-bar activated Brake depressed Siren activated Event Mark Internal Microphone On/Off Wireless Microphone On/Off The parameters displayed are chosen by the user during setup.

A state display is displayed as follows using a symbol character. When brakes are on, BRK is displayed. When brakes are off, nothing displayed. When lights are on, LTS is displayed. When lights are off, nothing is displayed. When sirens are on, SRN is displayed. When sirens are off, nothing is displayed. When internal mic is on, INT is displayed. When internal mic is off nothing is displayed. When external mic1 is on, EXT1 is displayed. When external mic1 is off nothing is displayed. When external mic2 is on, EXT2 is displayed. When external mic2 is off nothing is displayed.

#### Screen Layout

Text	Description	
User ID	Alphanumeric A-Z, 0-9	
Vehicle ID	Alphanumeric A-Z, 0-9	
F or R	Front or Rear Camera	
REC	Displays Record State	
BRK	Displayed when Brake is pressed	
LTS	Displayed when Lights are activated	
SRN	Displayed when Siren is activated	
INT	Displayed when Internal MIC is On	
EXT1	Displayed when External MIC1 is On	
EXT2	Displayed when External MIC2 is On	
Date / Time	Date and Time	
T_L_P	Radar Patrol, Lock and Target Speeds	
N 0 0 0 W 0 0 0	GPS Data	

#### **Wireless-Microphone Transmitter Functions:**

- 1. Wireless microphone is automatically powered on by record activation if it is in stand-by mode.
- 2. The system goes to TALK mode and starts recording automatically by pressing and holding the "RECORD" button FOR 2 seconds on wireless microphone transmitter.
- 3. System has the ability to activate REC mode automatically when system (DVM) is placed into record. Menu Selectable

# **Menu Functions:**

#### Main Menu

Displays Logo, Gauge showing Record time remaining, Software Version, User Name Selection and Password Playback Mode Listing of all recordings from the most current to the oldest Camera Day / Night Auto Focus On / Off Auto Zoom LED's On / Off Monitor On / Off / Auto Brightness 1-6 Backlight **Brightness 0-6** Rear Status LED's On/Off Assign Event ID Select Event ID's from a customized list such as DUI, Traffic Stop, Etc. Synch Wireless Microphone Used to synchronize the wireless mic to the DVM Downloand Via USB Port Allows downloading of video thru the mini USB port Settings Date / Time Display Vehicle Text - On / Off. Camera - On / Off Date / Time - On / Off GPS - On / Off Radar Speeds - On / Off Self-vehicles speed or GPS Speed - On / Off Light-bar- On / Off Brake - On / Off Siren - On / Off Event Mark - On / Off Internal Microphone - On / Off Wireless Microphone - On / Off Record Mode: Standard Medium High **Record Triggers** Lights - Y / N Siren -Y/N

Record Stop On / Off Internal MIC Pre-Event On / Off Default On / Off Record Stop On / Off External MIC Auto Activation On / Off Auto Stop On / Off Record Stop On / Off Radar Interface Kustom Stalker MPH DEI Other Power Power Button Shutdown Enable / Disable Ignition Shutdown Enable / Disable Delay in Record (mins): Sets amount of time before shutdown Delay in non-record (mins): Sets amount of time before shutdown



# THANK YOU FOR YOUR INTEREST!

We are pleased to introduce our new In-Car Digital Video System (DVM) integrated into a Rear View Mirror and our new Portable Digital Video System (DVF) integrated into a Law Enforcement Style Flashlight. These innovative products represent a major breakthrough in digital video recording for law enforcement. Enclosed you will find information about both our products and our company.

The DVM system is priced at \$3995.00 and the DVF at \$1595.00. These prices are for the complete system, including back office software and a two-year parts and labor warranty. All orders come with a 30-day money back guarantee if you are not completely satisfied. Normal delivery time is 30-45 days from placement of order. The units can be purchased outright, on a lease-purchase plan (own units at the end of the plan) or a straight lease/rental plan which allows you to turn the units back in at the end of the lease and re-lease new units.

We have a nationwide sales organization trained and equipped with systems ready to provide you with an on-site demonstration. Our sales organization consists of highly experienced, professional individuals who have demonstrated that their goal is to not only provide quality products but also to serve and support you, our customer.

If you need more information, would like to set up a demonstration, or want to place an order, please contact us. If a demonstration is needed immediately, please let us know and we will make every possible effort to meet your schedule. We can also furnish you with complete detailed specifications, bid specifications or a sole source letter.

Sincerely,

Itin Milling

Vice President Sales & Marketing

# NEW DIGITAL VIDEO TECHNOLOGY

Digital Ally, Inc. a publicly traded company located in Leawood, Kansas has developed two new Digital Video products that offer Law Enforcement agencies a New Generation of Digital Video. The Technology is so advanced and so small that the entire Digital Video System is integrated into a Rear View Mirror module, complete with a Color Monitor, Two Cameras, GPS, 900 MHz Audio Transceiver for recording audio outside the vehicle plus an internal microphone and speaker for inside the vehicle.

This unique design of the system allows it to be easily installed in any make or model of vehicle without taking up any extra space or interfering with any other equipment. Installation takes less than an hour and can be done by the department themselves as you simply take down the factory rear view mirror and install the Digital Ally DVM on the same mount and then run small wiring harness to power.

With digital technology the system can capture up to 60 seconds of the action before activating the record mode with the Pre-event recording feature. Once the record button is activated the system has been storing the previous 60 seconds and this is where the recording starts.

The monitor is completely invisible to the driver when not being used and can be turned on manually or be set to come on when the record mode is activated by other triggers such as emergency lights, sirens, wireless transmitter or manually by the operator.

The system records directly to solid state memory to provide the most reliable medium for evidence collection. There are no moving parts in the system as it records directly to a removable CF Flash Card and can hold up to 16 hours of recordings. Utilizing advanced MPEG 4 compression provides the highest quality and longest record times.

The GPS continuously records and displays the vehicle's coordinates showing the exact location on the recordings. It is also integrated with a "Mark" button where the officer can mark important events such as a weapon or contraband being thrown from a fleeing suspect's vehicle with the exact Latitude/Longitude coordinates.

Every Digital Ally system comes complete with user-friendly software to allow playback, searching and retrieving video, annotating, file management and archiving. Playback can be accomplished using standard Windows Media Player or other compatible software. The back office software that is included with the unit allows for search and retrieval based upon the following: Of-



ficer Name, Vehicle ID, Text, Date/Time, Index Number, Marked event, Emergency Lights, Siren, Radar Speeds, GPS, Event ID, Notes, etc. Individual events, multiple events or segments of events can be transferred to DVD's for easy playback. It also allows for saving, printing or emailing captured frames of video.

The New Digital Ally, Inc. Model DVM 900 is a full featured Digital Video System with the back office software to make it suitable for any size department. The price of the system is only \$3995.00 with a Two Year Parts and Labor Warranty which makes it very affordable as well.



Digital Ally, Inc. didn't stop with just designing the DVM 900, but at the same time has introduced a New Portable Digital Video System that is integrated into a Flashlight, the Digital Ally Model DVF. The entire digital video and audio recording system is integrated into a high quality, water resistantmachined aluminum law enforcement style flashlight. This system lets the officer point and record video and audio where ever they are, whether it is searching a vehicle, a building, out in the woods, in a house, etc. This system is not sending video and audio back to the DVM in the vehicle, but it actually stores the recordings on a solid state memory chip enclosed in the flashlight itself. It can store up to 8 hours of video and audio. The recordings can be viewed on any standard TV monitor and plugged into a computer's USB port for downloading.

The system utilizes the most advanced technology in LED lighting so it is a very high brightness flashlight as well with LED's

that can last up to 100,000 hours. It is easy to operate and only requires one hand/one finger on/off operation so it does not distract from the Officer's other duties while in use. Like the DVM it utilizes MPEG 4 compression and even has the same 60-Second Pre-

event feature. The integrated color camera is an extra wide angle camera and so aiming is accomplished by just pointing it like a normal flashlight. The battery pack is re-chargeable and comes with both a 12V and 110V charger. The Li-ion Battery pack provides up to 8 hours of continuous record time. Each DVF comes with the same back office software provided with the DVM, so searching and archiving is easy.

The New Digital Ally DVF gives Officers a whole new dimension in video and recording possibilities. It has unlimited applications and uses such as Searches of vehicles, building, accident scenes, crime scenes, arson investigation, DUI stops, School Resource Officers, Correction Officers, Security Officers, Training Officers, etc. The DVF lets you Point and Record Video and Audio Where Ever You Go and puts Evidence in the Palm of Your Hand.

The DVF is very affordable as well, priced at \$1595.00 with a Two Year Parts and Labor Warranty. To contact Digital Ally call Toll Free: 800-440-4947, E-mail: www. sales@digitalallyinc.com or visit their website at: www.digitalallyinc.com. The company has a full time Sales Representative traveling the State and can bring both systems to your department for a demonstration.

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