

Public Notice
Invitation to Bid
In-Car Video Cameras

Sealed bids will be received by the Berkeley County Commission at 400 West Stephen Street Suite 201, Martinsburg WV 25401, until 4:00 P.M. prevailing time Wednesday, April 14, 2010. Bids received after this time will not be accepted. Bids will be opened and read aloud on Thursday, April 15, 2010 at 11:00 a.m., prevailing time. Bids shall be for the purchase of in-car digital video cameras.

Specifications are available in the Finance/Purchasing Department of the County Clerk, 110 West King Street-Second Floor, Martinsburg, WV 25401, Monday-Friday, 9:00-5:00 P.M., calling (304) 264-1924, or on the County website; www.berkeleycountycomm.org.

Sealed envelopes should be clearly marked ***Bid Enclosed-In-Car Cameras***".

The County Commission reserves the right, as the interest of Berkeley County may require, to reject any and all bids and to waive any informalities in the requests for proposals and to award the bid in whole or in part for the best interest of the County to the most qualified bidder. Firms owned by women and minorities are encouraged to bid.

By order of
The Berkeley County Commission

Ronald K Collins, President

Berkeley County Commission/Berkeley County Sheriff's Department
Contact for inquiries: Captain D. S. Richmond
drichmond@berkeleycountycomm.org
800 Emmett Rousch Drive, Suite C
Martinsburg WV 25401
304-262-9839(office) 304-267-6681 (fax)

The purpose of these specifications is to provide the Berkeley County Sheriff's Department with six (6) digital in-car video for law enforcement and emergency vehicle use at the lowest possible price with respect to officer use, quality, upgradeability, and other considerations. These specifications are the minimum standards allowed, and are to include mounting hardware, cables, and all necessary equipment for an installed and working system. In consideration of the specifications, the Berkeley County Sheriff's Department has taken into account court acceptance, staff involvement, storage, and hidden cost or lack thereof in setting the minimum standards.

All bidding, contract, and other related laws are incorporated by silent reference whether or not they are specifically stated in this document. It is the sole responsibility of any bidder to know and comply with any and all related laws. Any clarifications or questions regarding this bid must be submitted in writing to the above address no later than two (2) working days in advance of the opening date. All references to the quantities are estimated, and are not binding or absolute. Final decision regarding the purchase, if any, will be made by the Sheriff and County Commission after the bid opening, appropriate funding verification, and required approvals are received. Upon announcement of this bid no contact is to be made regarding this bid or its specifications to any person other than the contact person listed above. Violation shall immediately disqualify any prospective bidder. All Department personnel are required to report any such contact.

All bidders must comply with the format of this bid and all pages returned with the submission. Facsimile or email bids will be considered 'non-responsive'. Product literature and any supportive information should be submitted with the bid. Failure to indicate "Comply" or "Non-Comply", or leaving other lines black may be considered "non responsive" regardless of price. Unsigned bids will automatically be rejected. All bids must guarantee prices for a period of at least ninety (90) days from the opening date. Bidder shall initial or sign each page of the bid acknowledging both receipt and acceptance of the terms, conditions, and or specifications. Upon mutual agreement between Berkeley County and the bidder, the bid prices may be extended for a period of up to one (1) year past the price guarantee for additional purchases without the requirement of a new bid. All bids are FOB to the County's specified location, with prepaid and shipping charges included in price. Regarding any discrepancy between the unit and extended price, the each unit price shall prevail. Any mechanical, manual, and or typing correction must be initialed by bidder at each correction.

All bids must be sealed and received prior to **4:00 p.m., Wednesday April 14, 2010**. Bids should be clearly marked "**Bid Enclosed-In-Car Cameras**". Bids not properly labeled and/or opened in error will be disqualified. Late bids will be rejected unless they are received by the County Commission Office prior to the opening date and time, labeled properly and the bidder is able to provide verifiable proof of delivery. Opening time is considered to be 11 a.m., prevailing time Thursday, April 15, 2010.

Item #	Specification	Meets Specification?	
		Yes	No
1	DVD-Video Recorder - The video system is to record onto rewritable DVD+RW discs designed to play directly on standard DVD players.		
2	Overhead Mounted System - The agency's vehicles have a minimum of space available in which to mount this equipment. Therefore, the vendor must offer a one-piece overhead mounted design that fits between the visors of vehicles that can accommodate an overhead mounted system. The overhead system is to include the DVD drive, a hard drive, processing hardware, 5" display screen, speakers, and backlit user controls. The camera and microphone components are to be separate from the overhead system so those components can be installed in their optimal locations.		
3	Padded Overhead Enclosure - All overhead mounted enclosures shall be padded and have rubber edges for occupant safety.		
4	Optional Modular Version - In order to be able to implement direct to DVD-Video technology in all vehicles used by the department, the vendor shall also offer modular unit version for alternative mounting. Trunk mounted systems will not be acceptable.		
5	Overhead Media Access - The DVD drive must be located in the overhead console so that DVD discs can be easily inserted or removed while seated in the driver's seat.		
6	Consolidated Hardware Enclosure - To eliminate unnecessary cables and connections and to ensure reliable data transfer, the DVD drive and all system processing circuitry and hardware shall reside in the same hardware enclosure.		
7	Integrated Automotive Grade Hard Drive - To ensure recording under all conditions, the system shall have an integrated automotive grade hard drive at least 40 gigabytes in size. The hard drive shall have a shock tolerance of at least 200Gs and an operational temperature range of -30C to +85C degrees. Due to the harsh environment in which these systems will be used, vendor this hard drive must be of automotive grade.		
8	Graphical User Interface - For ease of operation, the system settings, hard drive playback, and supervisor controls are to be accessed through a graphical user interface. No text based user interfaces shall be acceptable. System keys and buttons shall provide a tactile feedback and an audio feedback on key presses.		
9	Selectable Officer Names - The system shall include a simple method for selecting a programmed officer name from a list for rapid login at shift changes. Individual officer preferences and settings are to be loaded and activated by merely selecting their name.		
10	Multiple Officers per DVD - The system must allow a new Officer name to be selected without changing the DVD in order to accommodate shared vehicles that may have multiple users. Each recorded event must record the Officer name that was logged in during that event.		
11	Saved Officer Setting - The system shall have user preference settings that include: LCD Screen Brightness, LED Indicator Brightness, Volume, and Front Camera Auto-Zoom. These setting shall be saved so that when the user logs back in, their settings are restored.		

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12	DVD Drive Suspension System - To isolate the DVD recorder from shock and vibration, the DVD drive must be mounted in a spring loaded, silicone oil dampened suspension system. This suspension system must be efficient enough to allow the DVD burner to operate while in motion.		
13	High Quality Enclosure - In order to withstand the rigors of use, the overhead system must be constructed mainly of welded, powder-coated aluminum. For occupant safety, this enclosure must be padded and all edges must be rubber. Overhead dimensions shall not exceed 13.5" long, 5.5" high and 6" wide excluding mounting hardware.		
14	High Performance LCD Display - The system shall have a liquid crystal display (LCD) that is no less than five (5) inches (measured diagonally). The display shall have a typical brightness rating of at least 400 nits, a typical contrast ratio of at least 350:1, and a minimum viewing angle of 50 degrees left and right of center for a total of 100 degrees horizontally.		
15	High Quality Audio Subsystem - To ensure the clearest audio during playback even in a noisy environment, the system unit shall have 2 high performance speakers that are driven by a stereo audio amplifier with at least 6 watts of power.		
16	LED Indicators for Audio, Video and Record - To ensure Officer awareness, the system must have LED indicators showing record, microphone, and camera activity.		
17	System Power-Up Behavior Control - The system power behavior must be configurable to allow a supervisor to independently set the system to manually or automatically turn on or off with the vehicle.		
18	Real-Time DVD Burning - In order to eliminate any user or vehicle downtime, the system must burn video to the DVD in real-time regardless of whether the vehicle is in motion or not. Systems that require the vehicle to be stationary in order to burn the DVD will not be acceptable. Systems requiring a separate piece of hardware to burn the DVD (such as a laptop computer or DVD burning station) will not be acceptable.		
19	Adjustable Pre and Post Event Recording - The system must be capable of automatically capturing and appending both pre-event and post-event video for as little as 15 seconds and up to 10 minutes per event. These settings are to be independently adjustable and restricted by a supervisor. Pre- and post-event times must be continuous with the record event. Systems that record pre- and post-event times onto separate video events will not be acceptable.		
20	Simultaneous Record and Playback - System shall be able to playback previously recorded video while simultaneously recording new video.		
21	Disc Usage Meter and Low Disc Warnings - The system shall have an on-screen Disc Usage Meter that graphically shows the user how much video is on the current DVD and how much space remains. Additionally, the system shall have audible and visual warnings when the disc is nearing its capacity.		

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22	Automatic Disc Overflow Handling - When a DVD fills to video capacity during a recording, the system will automatically store overflow video on the integrated hard drive until a new DVD is inserted. The system shall be capable of "overflowing" at least five (5) full DVDs.		
23	Covert Recording - To allow the user to covertly record, the system shall have the ability for the user to quickly disable the system's screen and LED indicators while remaining in its current recording state.		
24	Crash Detection - The system must include a 3-axis, solid-state crash detection sensor. In order to prevent improper installation, the sensor must be factory integrated into the system enclosure. Settings must be provided through the system's graphical menu to allow the agency to choose an appropriate crash sensor sensitivity level in order to minimize false crash detections.		
25	Record Triggers - The emergency lights, siren, auxiliary, wireless microphone, and crash detection sensor can all be programmed to automatically activate the recorder.		
26	Event Categorization - System must allow record events to be categorized via the on screen menu. Categorization selections must be administratively configurable.		
27	Programmable Event Categories - System must allow the agency to program up to six different event category prompts in order to collect data deemed relevant regarding each record event. Event prompts must display automatically after each event recording has been stopped by the Officer. Prompts must not preclude the system from continuing to record video to its buffer.		
28	Recorded Metadata - System must record event metadata including but not limited to event category, date, time, officer name, record status, microphone status, emergency lighting status, brake status, GPS coordinates, etc. for fast searching and video navigation.		
29	Auto Stop - The system must have a means of detecting when the system is inadvertently left in record mode. The system must allow an option to prompt the user or automatically stop the record event.		
30	Multiple Camera Support - The system must support a minimum of three (3) cameras. Users must be able to activate the cameras through the system's graphical menu. LED indicators for each camera shall be present and illuminate when its corresponding camera is active.		
31	Combination Camera - All units shall come standard with two (2) high resolution color cameras built into the same camera housing; a front zoom camera, and a color backseat camera.		
32	Zoom Camera - The front zoom camera shall be capable of a total zoom of 22x optical zoom and capable of up to a 12x digital zoom.		

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33	Camera Controls - The front zoom camera must have backlit controls on the camera back for auto-zoom, zoom in, zoom out, auto-focus, focus far, focus near, back light compensation, and night view mode. All camera controls must also be accessible using the system front panel.		
34	Sony EX-View Camera - The front camera shall be equal to the Sony EX-VIEW chipset with Anti-Blooming and up to 0.03 LUX sensitivity. Proof of "equal" shall be the responsibility of the bidder and shall be submitted with the bid if not using the Sony EX-VIEW chipset.		
35	Backseat Camera - The back seat camera must be a high resolution color camera with at least 450 TV lines of resolution and provide at least 0.35 LUX sensitivity. Black & White cameras shall not be acceptable. Bid price must include a color backseat camera.		
36	Infrared Illumination - The combination camera shall have rear facing infrared illumination for back seat recording in low light conditions.		
37	Nighttime Optimization - The camera's nighttime optimization setting (Night Mode) must engage and disengage automatically by the DVR without any user intervention in order to eliminate the possibility of the user forgetting to enable Night Mode.		
38	Separate Audio Channels - In order to isolate the audio during playback between the wireless microphone and the cabin microphone using a standard left/right stereo fader control, the system shall record the two audio tracks separately onto the left or right channel.		
39	Simultaneous Audio Recording - Both audio recording sources must be able to record regardless of what cameras are being recorded.		
40	2.4 GHz Digital Wireless System - The system must include a digital 2.4 GHz wireless microphone system consisting of a belt back transceiver and a charging / synchronization base.		
41	2.4 GHz Digital Wireless Transceiver - The belt pack transceiver must include a replaceable lithium ion rechargeable battery. The transceiver must have its primary audio pick-up built into the transmitter so full operation is possible without a wired lapel microphone.		
42	Multi-Mode Transceiver Alerts - Transceiver shall allow the user to set the transceiver's alert mode to accommodate all tactical environments. Alert modes shall include: Beep Only, Beep and Vibrate, Vibrate Only, and Silent.		
43	Variable Transmit Power - In order to produce the longest battery life, the transceiver shall utilize automatic Variable Transmit Power so only necessary transmitting power is used. When needed however, the Transceiver shall automatically transmit at the FCC's maximum allowable power of 50 milliwatts.		
44	Automatic Microphone Activation - The wireless microphone must have the ability to trigger the camera to record, and the camera system must be able to automatically turn on the wireless microphone when the recorder is activated.		

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45	Charging / Synchronization Base - The wireless microphone shall include an in-car charging / docking base that automatically synchronizes the communication link when the belt pack transmitter is docked into the base. The Base must also have LED indicators for "charging" state an "in-use" state.		
46	Microphone Power Management - To simplify installation, the charging/docking station must draw power from the video system, and does not require running additional power cables from the vehicle's electrical system. In addition, when the system is turned off, it must automatically cut power to the Charging Base after allowing the wireless transceiver to fully charge in order to minimize power drain on the vehicle's battery.		
47	Unique Synchronization - Any wireless transmitter(s) shall be capable of synchronizing to any base via the docking cradle which will disable any previously docked transmitter.		
48	40 Digital Channels - The wireless recording system shall consist of 40 individual channels to avoid multiple systems at the same incident recording on another system.		
49	Cabin Microphone - Each system must include an internal cabin microphone that will record on a separate sound audio channel from the wireless microphone system when activated. This microphone must be amplified in order to clearly pick-up even the faintest of conversations. Additionally, this microphone must be wired and extendable so that it may be installed in an optimal location for any type of vehicle.		
50	Charging and Talk Time - The wireless microphone transceiver with low battery shall become fully charged within 3 hours of being placed in the charging station. When in-use, the wireless transceiver shall allow for up to 8 hours of talk time.		
51	Automatic Chapter Segmentation - The system must automatically create chapter start and stop points for each recorded (traffic stop) event. Each chapter is to include any user programmed Pre and/or Post event footage in the same order as the logical timeline.		
52	DVD Disc Start-Up Menu - The DVD discs must be authored so that when the DVD disc is inserted into a standard DVD player; a chapter menu will be displayed allowing the operator to select a specific traffic stop to play.		
53	Selectable Chapter Menu Thumbnails - The chapter menu must label each chapter with the time and date recorded and display a thumbnail image taken from the video for easy identification.		
54	On Screen Text - The system is to record meta data information on the DVD in the closed captioning layer so that the meta data can be turned on or off during playback without the use of proprietary software or hardware. Meta data information is to include time, date, status of emergency lights, brakes, wireless microphone, auxiliary input, crash detection state, as well as vehicle ID and officer name. Due to the unnecessary distraction, systems that flash on-screen metadata will not be acceptable. Systems that require the viewer to have special software in order to hide metadata will not be acceptable.		

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55	Up to 8 Hour Discs - The system shall offer at least 4 different selectable recording quality modes; including modes that fit approximately 2,4,6, or 8 hours of video onto a single DVD disc. Recording time may be affected by variable bit rate (VBR).		
56	Split Screen - The user shall have the ability to display any two cameras on screen in a split screen format. The recorded DVD must record both images simultaneously so they are viewable when the DVD is played in a regular DVD player. Systems that limit DVD recording and playback to only one camera at a time will not be acceptable.		
57	No Deleting or Overwriting Video Shall be Possible - To guarantee data security and integrity, the system shall be able to ensure that the user cannot delete, edit, or erase video data from either the hard drive buffer or the DVD disc. Reuse of DVDs may be permitted under supervisor controls.		
58	Automatic DVD Back-Up - In order to recover lost or damaged DVDs, the system must be capable of archiving six (6) full DVDs on its integrated hard drive. Duplication shall be possible through the system's graphical menu and have the ability to be password protected.		
59	Supervisor Controls - The system must provide the ability to restrict access to any and all settings by way of supervisor passwords. Multiple supervisors and supervisor passwords must be supported.		
60	Media Security - Access to the DVD drive must be secured by a lock to protect from unauthorized access.		
61	Video Authentication - Video must be embedded with at least a 128-bit encrypted data stream in order to allow DVD authentication. System must provide software at no additional price to perform disc authentication in a variety of locations such as courtroom locations. Original events copied from an original DVD for court presentation or attorney viewing must also be able to be authenticated. Copy authentication must prove the event is complete and has not been altered in any way. Simply recording onto a write once media will not be sufficient without an electronic authentication measure.		
62	Cables - The system will include cables necessary for a complete vehicle installation including all power cables, all vehicle system input cables, etc.		
63	Optional GPS - The system must offer the capability of maintaining the location of the patrol vehicle by Global Positioning System (GPS). When installed, the system shall be able to show vehicle coordinates and speed in the on screen text and recorded meta data. Additionally, GPS shall allow the system to automatically and continually update its date and time to ensure accuracy across the fleet.		
64	One Year Warranty - Warranty shall be a minimum of one (1) year from the date of shipment.		
65	Remote Control Interface - Vendor must publish a remote control interface that allows integrators of technology such as (but not limited to) Project 54 to develop compliance and functionality with the in-car video system.		

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66	Free System Firmware Upgrades by Disc - System shall have the ability to easily upgrade the software features by inserting a CD or DVD disc with an updated firmware file. Firmware updates shall be free for the life of the product.		
67	Configuration Management Software - In order to preserve password security and ensure a uniform deployment, the system must include supplemental software which permits the user to pre-populate all vehicle and officer configuration selections to each system via CD. (i.e. Officers, department, vehicle ID, system settings, passwords, etc.)		
68	DVD-Video Copying Software - System must include software allowing a single recording to be quickly copied from original DVD playable discs. Additionally, software should also allow full copies to be made as well. Copies shall also be DVD-Video discs and play on any consumer based DVD player.		
69	Software Licensing and Annual Fees - Configuration Management and DVD Copying software shall be able to be installed on any workstation or laptop owned by the agency, at the agency's discretion, without any software license fees or annual maintenance fees.		

Upon request of the agency, a working demonstration shall be provided by a representative of the bidder or by delivery of a sample unit to the agency within 15 working days of the written request. Any and all cost related to this demonstration shall be incurred by the bidder.

Final determination of any purchase will not be exclusively on price. Factors that may be considered are price, ease of installation, interface options, service, warranty, ease of programming, ease of use for the officer with intuitive graphical menus, options, manufacturing support, and other areas determined by the agency.

Bidder's Offering for Digital In-Car Video Systems

_____ (Bidder) hereby submits the following bid for the above specifications. By my signature below, I am authorized to sign this bid and obligate the bidder to the offering, the terms and conditions, implied and included. If I am not the manufacturer of the item(s) bid, I am an authorized reseller, distributor or other legal representative of the manufacturer for the purpose of this bid and have the ability to deliver the product bid.

_____ (qty) Overhead units X \$ _____ each equals \$ _____ total

_____ (qty) Modular units X \$ _____ each equals \$ _____ total

Total bid amount \$ _____
(if quantity discounts are offered, indicate on attachment and [] check here)

_____ (manufacturer) _____ (model number)

Available Accessories

_____ \$ _____ each
_____ \$ _____ each
_____ \$ _____ each
_____ \$ _____ each

[] corporation, [] partnership, [] sole proprietor, [] individual
[] manufacturer, [] distributor, [] agent, [] other _____

_____ (guaranteed shipping days after receipt of order including weekends and holidays)

Terms: _____ Prices guaranteed for _____ calendar days

_____ (legal name of bidder)

_____ (DBA if appropriate)

_____ (FIN or SS number) _____ (signature of bidder)

_____ (printed name and title)

_____ (address)

_____ (city, state, zip)

_____ (phone) _____ (toll free) _____ (fax)

Note all Exceptions taken on previous page (if none so state)