

New - 2007
Bid Specifications
Digital in car video

System Description

- The system includes a visor mounted digital video recorder, visor mounted miniature color camera with zoom ability, color LCD touch-screen monitor and a wireless microphone system for the officer. The system provides for an audio and video record at the officers command. Perfect for sobriety tests, pursuits, traffic stops and many homeland security applications.
- The visor mounted digital video recorder (DVR) contains no moving parts for maximum reliability in the field. Utilizing Compact Flash cards, the DVR can withstand up to 50 G's and a broad spectrum of temperatures.
- The visor mounted miniature color camera uses a ¼" Sony IT Super-HAD CCD Digital Signal Process with 470 lines of resolution. The compactness of the camera prevents the officer's view from being obstructed.
- The color LCD touch screen has a viewable screen of 5 inches with the Record and Play controls accessible on-screen.
- The officer worn Pro800 microphone automatically activates the camera system when turned on. The wireless microphone system uses a rechargeable battery.
- An external rear-seat microphone is available for covert recording suspects once in custody. The LCD Display may be turned off using a switch on the side of the screen to facilitate covertness.
- Unique user information is programmable onto the screen using the supervisor wireless remote control.
- The System is completely Solid State Digital Video System including all wiring and cables needed for installation.
- The completely silent. No noisy fans or outside cooling/heating devices are needed.

Digital Video Recorder – DVR

- The DVR runs on an embedded operating system called "Linux" for stability. Windows is not used.

- To maximize reliability, the DVR uses NO moving parts and records onto Compact Flash cards.
- If the DVR is damaged or destroyed, all recordings are safe, having been written and finalized on the card up until that point. Most other systems require finalization of the file upon ending of a shift risking a complete loss of recordings until this is done.
- The touch-screen interface displays 2 operational buttons, Play and Record.
- The DVR has a Supervisor Lockable Door so officers may not tamper with the recorded evidence on the Compact Flash card.
- The DVR synchronizes the Video Recording, Audio Recording, Car Speed, Location Data and Date of Recording.
- The DVR is a System on Chip setup (SoC) to minimize power consumption and enhance system stability, preventing errors upon shutdown.
- Record over Protection is integrated into the DVR to prevent an officer from recording over evidence.
- The DVR must have at least 3 minutes of pre event recording.
- The "Watch Dog Function" saves all settings for the system in case power is lost or the system is turned off. Next time you boot up, the system will be ready to use without a lengthy period of inputting settings.
- A Supervisor IR Remote Control is provided along with a Supervisor key to change menu settings and input on-screen information.
- The DVR displays supervisor inputted information such as Time, Date, Officer Name and Department Name on-screen.
- The DVR has the ability to integrate with the optional GPS unit to display Location in Longitude and Latitude on-screen
- Vehicle Speed is displayed on-screen in Miles Per Hour under the GPS location with the optional GPS unit.
- The DVR has the ability to stream Live Audio and Video including on-screen data.

- The DVR shall display On Screen indicators shows "W" when your wireless microphone is activated. "L" for light bar, "B" for brakes and G for the crash sensor
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- The On-screen Display lettering is Light Grey to appear Readable during the day, not white, which washes out.
- The DVR and Touch Screen Monitor is one piece, mounted on the roof of the interior of the vehicle.
- The on-screen display shows the percentage of space left on the Compact Flash card in the bottom right hand corner of the screen.
- The DVR is capable of Activation 3 different ways. Light bar activation. Manual activation. Officers Wireless Microphone activation.
- Real time video passes through the DVR to the touch screen monitor for a live video feed.
- Overwrite Protection makes it impossible to Delete or Edit evidence from the unit without the Supervisor Key.
- The DVR mount is compatible with Chevy Impala, Chevy Trucks, Hummers, Ford Crown Victoria, Ford Expedition, Ford Explorer, Ford Trucks, Dodge Charger and Dodge Intrepid.
- An optional external Rear-Seat Microphone is able to be connected for recording a suspect while in the vehicle.
- The DVR uses h.263 compression software.
- The DVR system operates on 12V DC±10% (4.3W)
- The entire system is capable of operating in temperatures ranging from -- 40 Degrees Fahrenheit to 180+ Fahrenheit.

Camera

- ¼" Sony IT Super-HAD CCD Digital Signal Image sensor resists blooming and smearing during night-time operation.
- Built-in Digital Picture Stabilization removes jiggling and shaking from the recorded video.

- The low-light CCD Color Camera has a sensitivity of 1.0 lux in Normal mode and 0.02 lux in low-light mode.
- The camera includes a 22X optical zoom lens supplemented by an option 11X digital zoom.
- Automatic White Balance, Auto Iris Control and an Auto Focus Lens functions are provided on the camera.
- The camera shutter speed and white balance is adjustable.
- The camera is mounted in an airbag neutral position as to not interfere with airbag deployment on either side.
- The camera mount contains a ball joint, allowing for maximum flexibility for adjustment.
- The camera uses a Signal Format of 625 lines with a 2:1 interlace.
- The camera has an active pixel rating of 768(H) X 494(W) NTSC.

Color Monitor

- A viewable touch-screen monitor measuring 5 inches is provided.
- Non-reflective screen allows easy viewing of screen even during daylight hours.
- Live monitoring of whether or not the system is recording.
- All on-screen controls are easily viewable day or night without the need for backlighting.
- The monitor is mounted in an airbag neutral position as to not interfere with airbag deployment on either side.
- The monitor mount contains a ball joint, allowing for maximum flexibility for adjustment.

Wireless Microphone System

- The wireless microphone system has a 1500 feet range so full audio may be recorded even inside buildings.

- 16 Channels are provided so up to 16 officers can arrive at a scene and have uninterrupted clear audio.
- When an officers wireless microphone system is placed into the desktop charger, it automatically detects the level of charge required, filling the NIMH battery to maximum charge.
- The wireless microphone system contains an internal microphone to backup the lavalier microphone in case it is unplugged or disabled.
- The 800 MHz frequency used with our system is clear of non-police interference which many of the other frequencies struggle with.
- The wireless microphone system has an RF Output of 10mW (according to regulation).
- The NIMH rechargeable battery inside the wireless microphone system has a 10 hour charge life when in use typically.
- Wireless Microphone System dimensions: (LxWxH): 92 x 65 x 25 mm
- Wireless Microphone System weight with batteries: 128 Grams