



### Our Partners

Panasonic's Toughbook Arbitrator is a digital video system tailored to the needs of law enforcement personnel. Panasonic is renowned for its reliable, rugged notebook computers. This same ruggedness was designed into the Arbitrator system, comprising a camera, a digital recorder and a wireless microphone. The Arbitrator is resistant to dust, vibrations and variations in temperature. Plus the camera supports a super wide-angle lens offering a wide field of vision, as well as infrared technology for around-the-clock video capture and deliver of full motion DVD quality images.

CDCE, Inc of Yorba Linda, CA designs, supplies, integrates and maintains enterprise-level wireless mobile computing systems. CDCE has created a unique step-by-step mobile deployment process that brings the latest technology advancements to Sacramento County Sheriff's Department by optimizing the SSD wireless network with the in-car video system.

## Success Story



## Sacramento County Sheriff's Department

### *Enhancing Patrol Security with Advanced Video Technology*

Today, federal state and local governments and their citizens are seeking greater protection for people, property and information. Surveillance tools are being increasingly leveraged to deter crime, identify lawbreakers and analyze security information. Coupled with the desire to provide improved officer safety tools for their officers, many law enforcement agencies are installing digital video in-car camera systems to provide their officers with an "extra set of eyes" in their patrol vehicles. The Sacramento County Sheriff's Department recently enhanced its crime-fighting capabilities by implementing an end-to-end digital video surveillance system to support its deputies on patrol.

### Customer Background

Serving Northern California communities of more than one million people, the mission of the Sacramento County Sheriff's Department is the preservation of the public peace and the enforcement of the law in partnership with the communities it serves. To fulfill this mission, the Sacramento County Sheriff's Department (SSD) sought state-of-the-art, mobile video surveillance technology that combined digital video capture with law enforcement-quality storage and management applications. Insight Video Net and its business partner, Panasonic Computer Solutions, along with local system integrator, CDCE, were selected to implement a fully networked, digital video surveillance solution for the Sacramento County Sheriff's Department.

Installed in 260 patrol cars, the Department's new in-car video system, designed for law enforcement, by law enforcement, captures and records digital video from car-mounted cameras and sound from wireless microphones. The Panasonic® Arbitrator™ along with Insight Video Net software can also capture auxiliary data such as radar and Global Positioning System (GPS) readings to augment the video information. The in-car video files are sent to the Department's network using wireless connections and stored as electronic video media.

Sacramento deputies are now able to quickly assess what's going on around them and ensure a more effective response. The system helps improve efficiency by better documenting incidents as they occur; synchronizing that documentation with other information collected at the scene, and improving the security of the evidence. "When it comes to responding to hazardous situations and protecting the public and our officers, time matters," said Lieutenant Phil Brelje, Sacramento County Sheriff's Department. "Even a routine traffic stop can quickly evolve into a dangerous situation. This will aid in litigation and allow us to review complaints to help the prosecution. There is an immense amount of evidence recorded".



## Business Need

The Sacramento County Sheriff's Department had no prior experience with patrol surveillance systems and needed an easy-to-use, mobile digital video system that would:

- Require minimal human intervention
- Automatically upload all video files to the department districts and consolidate at headquarters
- Offer the capability for live video streaming
- Record the video in the patrol car to solid-state media
- Provide reliable evidence in court cases

## Solution

The Sacramento County Sheriff's Department engaged Panasonic, Insight Video Net and CDCE to design and help deploy a new wireless-enabled digital video solution for use in its patrol cars and districts. After reviewing the SSD requirements, the integration team, working with Panasonic,



selected the Toughbook® Arbitrator™ video system and Insight's Central Management System™ (CMS) software. CMS software authenticates, stores and organizes the video, audio and meta-data content

captured by the mobile Arbitrator video system. Once the video files have been uploaded to SSD district servers, personnel can connect to CMS to search and review stored video files.

The InsightVideo Net Central Management System is a security-rich solution that provides an open-architecture approach, supports industry standards and enables different levels of access rights. Any person accessing the system will be logged, and

information about who uploaded, downloaded, viewed and copied files is recorded in the security database. Other features of the video surveillance system that will be used by the Sacramento SD include:

- Capture of video/audio data to a MPEG4 compression format at up to 30 frames per second.
- Use of system triggers such as activation of the wireless microphone, light bar and speedometer to automatically engage the video recording system.
- Triplex operation permitting personnel to simultaneously view live video, capture video and playback video files. This allows full control over the viewing of the video without halting the recording in any way.
- Configurable pre and post event video/audio data capture: pre-incident recording will capture up to the first two minutes prior to the triggering of the recording. This is useful when incidents occur quickly and an officer needs footage of the events that took place before the actually triggering of the recording. Post-incident recording captures video for two minutes after a triggered event is over.
- Encryption that prohibits video file viewing by unauthorized users. To prevent the video from being altered, the stored video goes through a rigorous digital signature process using RSA-based encryption. The encryption process links each frame to the preceding one through a complex algorithm, which prevents anyone from deleting a video sequence. Any change to an individual frame, down to a single pixel, is detected.
- Remote system management that allows authorized personnel to access the video system from any user location through TCP/IP for system monitoring and troubleshooting.
- Video file bookmark capability allows personnel to attach notes to the video files. These notes are later indexed with the storage and management system and are searchable.

## Benefits of the Solution

The new in-car digital video system helps improve public safety and quality of life in Sacramento County by providing new technology tools to the sheriff's department for the detection, prevention and prosecution of criminal events. It will also help improve productivity by saving deputies time, and more effectively use department resources by providing automated system management and instant access to the stored video.

By engaging Panasonic, Insight Video Net and CDCE, the Sacramento County Sheriff's Department obtained the hardware, software and services it needed to move to the forefront of mobile surveillance for its patrol fleet. ➔

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