



# Boundless Security Systems, Inc.

*sharper images with better access and easier installation*

## FOR IMMEDIATE RELEASE

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## **Boundless Security Systems, Inc., Develops First LIVE, In-Car Mobile Video System to Help Protect Police Officers' Lives**

Newtown, CT, June 26, 2006 -- Boundless Security Systems, Inc., [www.BoundlessSecurity.com](http://www.BoundlessSecurity.com), announces that it has developed the first LIVE, in-car mobile video surveillance system. This new generation of mobile video systems not only records four video cameras simultaneously in each vehicle to help protect police departments' liability about their handling of suspects, but also provides live, real-time wireless video to distant command-and-control centers and mobile forces to help police departments protect their most valuable assets -- the police officers themselves. Boundless' unique, *ultra low bandwidth* system provides wireless remote access to multiple live and recorded video streams simultaneously from moving vehicles using the Sprint Nationwide PCS Network, a cellular data network that covers most of the U.S. population. Special high speed wireless communications are not required.

Conventional in-car video systems record video from only a single camera that looks through a vehicle's front windshield. Such conventional systems do not provide live remote video and are only able to record the way suspects are treated. The recordings can only be accessed when the patrol car returns to the depot. The hard drive or solid state memory that stores the recorded video must either be removed from the in-car video system, or in some cases, be accessed wirelessly when the vehicle is in or near the depot. "Conventional in-car video systems, even the few that provide wireless access to recorded video, only help protect a police department's liability, not the officers' lives," says Steve Morton, Boundless' CEO, CTO and system architect. "Officers put their lives on the line every day when they pull over suspects.

Boundless' economical, new, ultra low bandwidth, multi-stream, four-camera, in-car mobile digital video surveillance system not only helps protect police departments' liability, but more importantly, it also helps protect police officers' lives. The police dispatcher and mobile forces can now view real-time, live video from patrol cars to help protect officers while they are in the field, in the line of duty."

"It sounds corny, but *may the force be with you*," says Morton. "If you're pulling over a suspect on a lonely section of highway, you've got to wonder if the driver has a hidden weapon, or if there's someone hidden under a blanket in the back seat. And, you wonder if someone who dislikes police is roaring up the highway and is going to run you down. Now, with Boundless' new live, ultra low bandwidth, four-camera, in-car mobile video system, the dispatcher and mobile forces can keep their eyes out for you. The entire police force can be with you."

Boundless' ultra low bandwidth is a critical element, says Morton. "Outdoor video surveillance is a communications problem *first*, and a video problem *second*," says Morton. "Live, multi-camera, in-car video systems would be easy to build if you could connect a fiber-optic cable to each vehicle. Since you can't, we had to solve the communications problem."

Boundless' live, in-car mobile video system records four cameras simultaneously within each vehicle, providing full situational awareness and the ability to put a miniature camera on the officer. It meets competing needs for sharpness and ease of wireless communications by recording each camera with three resolutions, and by making live video from each camera available remotely with five combinations of resolution, frame rate and data rate. Video recorded with full camera resolution and high sharpness is used for investigations. Video with medium resolution and low data rate is used for routine monitoring. Video with low resolution and ultra low data rate is used for situation assessment. Multiple real-time, live video streams and multiple recorded video streams can be accessed remotely, even while vehicles are travelling, anywhere there's cellular data service. The number of cameras viewed live remotely, and the choice of which video streams are viewed live remotely, depend upon the speed of the wireless network at the vehicle's location. The system works even in areas with weak cellular signals. Motion searches can also be performed remotely, and recorded video can be rapidly reviewed remotely. The same system can be used in school buses, trains and portable video surveillance systems.

## **Background**

Boundless Security Systems, Inc., [www.BoundlessSecurity.com](http://www.BoundlessSecurity.com), is a privately held,

woman-owned small business. Boundless specializes in outdoor video surveillance, where communications bandwidth is precious. Boundless was formed in response to the 9-11 terrorist attacks. Following those attacks, Steve Morton, Boundless' CEO and CTO, reviewed the business and technology of the video surveillance industry and developed Boundless' business plan. Shortly after the 9-11 Commission Report was released, Boundless published a White Paper detailing a dozen hidden vulnerabilities in conventional digital video surveillance systems. Boundless' patent-pending, cyber-secure architecture avoids these problems.

Steve Morton is a serial entrepreneur and has a BSEE '71 and a MSEE '72 from MIT. He has 35 years' experience developing computer systems, 20 years' experience in digital imaging, and 15 years' experience developing mission-critical communications systems. He has been awarded more than twenty US patents and has a special interest in the use of digital imaging for public safety.

#### **Illustrations and Photos Available On-line:**

1. Block diagram of Boundless' multi-camera, ultra low bandwidth, in-car video system:  
[http://www.BoundlessSecurity.com/documents/Boundless\\_Wireless\\_Mobile\\_Video\\_Surveillance.pdf](http://www.BoundlessSecurity.com/documents/Boundless_Wireless_Mobile_Video_Surveillance.pdf)

2. Photo of Boundless' ultra low bandwidth, multi-function, *Multi-Stream Video Server*<sup>TM</sup> *Subminiature Fanless* with Battery Power Option:  
[http://www.BoundlessSecurity.com/images/Boundless\\_ultra\\_low\\_bandwidth\\_Multi-Stream\\_Video\\_Server\\_Subminiature\\_front\\_\(C2005\).jpg](http://www.BoundlessSecurity.com/images/Boundless_ultra_low_bandwidth_Multi-Stream_Video_Server_Subminiature_front_(C2005).jpg)

3. Screen capture shot from Boundless' *Control Panel* client live and recorded viewing and searching software: [http://www.BoundlessSecurity.com/images/Boundless\\_live\\_in-car\\_mobile\\_video\\_screenshot\\_052006-08.jpg](http://www.BoundlessSecurity.com/images/Boundless_live_in-car_mobile_video_screenshot_052006-08.jpg)

4. Demo (an animated series of screenshots) of Boundless' ultra low bandwidth, live, in-car mobile video system in action while travelling on a highway:  
[http://www.BoundlessSecurity.com/videos/Boundless\\_Wireless\\_Mobile\\_Video\\_Surveillance.gif](http://www.BoundlessSecurity.com/videos/Boundless_Wireless_Mobile_Video_Surveillance.gif)

5. Photo of Steve Morton, Boundless' CEO, CTO and system architect:  
[http://www.BoundlessSecurity.com/images/Boundless\\_Steve\\_Morton\\_\(C\\_Nov2003\).jpg](http://www.BoundlessSecurity.com/images/Boundless_Steve_Morton_(C_Nov2003).jpg)

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