

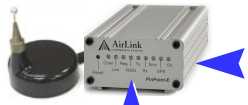


# Boundless Security Systems, Inc.

*the communications bandwidth experts*

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## Ultra Low Bandwidth, *Boundless Security System™* Enables Mobile Task Forces to Remotely View Live and Recorded Video, and Control PTZ Cameras on Vehicles and Officers Near Them



Cellular CDMA or firewalled GSM, or WiMAX Modem

Video server can share Internet connection of vehicle's MDT (if any)



Many different digital video streams and recording internal to **Multi-Stream Video Servers** avoid heavy continuous traffic on wireless networks. Live and recorded audio and video traffic is only on demand. A mere 64 Kbps uplink can carry 2 live video streams at once at 15 fps. Any broken wireless video connections are quickly automatically re-established for moving vehicles.

Boundless' ultra low bandwidth, many-function, **Multi-Stream Video Server** provides a mobile **audio / video base station** in each vehicle. It provides audio and video digitizing, internal recording for four CCTV cameras with better quality than can be sent live, MPEG-4 video compression, many different video streams per camera simultaneously, and communication of recorded audio, and live and recorded video on demand. Mobile-originated / firewalled GSM net-works that block access from the Internet to others' mobile servers can be used with the aid of Boundless' **Event Broadcast Server**.

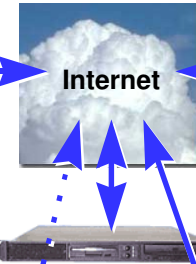
Four PTZ cameras can be used with each vehicle. Small wireless audio/video cameras on officers can give live video closeups of subjects pulled over to Dispatchers and mobile task forces. Officers can push a Help button and rapid alert messages with live video can be received within 5 seconds by mobile task forces without e-mail or text message delays.

Three to eight simultaneous video streams per camera, with different resolutions, frame rates and data rates, optimize images for situation assessment, monitoring and investigations, and for moving and stationary cameras. Three resolutions, each with multiple data rates, are provided simultaneously for each camera. Video is available remotely both live, bandwidth-permitting, and recorded.



VGA, QVGA, QQVGA

June 5, 2010



Boundless' **Event Broadcast Server** provides a Virtual Private Network for Boundless' **Multi-Stream Video Servers** behind firewalls, converts live and recorded video into a format for viewing in a browser by many viewers at once, and implements Boundless' **Rapid Notification System**.



Mobile Data Terminals with Boundless' **Control Panel** client viewing and searching software access Boundless' **Multi-Stream Video Servers** for live and recorded video, and search recorded video. Or, with Boundless' **Event Broadcast Server**, live and recorded video can be viewed, PTZ cameras controlled, and rapid alerts received, in web browsers.



Mobile forces view live or recorded video, and control PTZ cameras, on smartphones including *iPhone* and *BlackBerry 7630* in a web browser. Handhelds do not require any special software. Rapid alert messages with live and recorded video, not just snapshots, are pushed to viewers for fast response.



Command Centers with Boundless' **Control Panel** client live and recorded viewing, motion searching, and recorded audio retrieval software on Windows PC's. Dispatchers can push video messages to mobile forces.