



Boundless Security Systems, Inc.

the communications bandwidth experts

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Ultra Low Bandwidth, Boundless Security System™ Provides Mobile Command Centers Able to View Dozens of Cameras Simultaneously on a Laptop PC with Cellular Communications

Live video and sharpest recorded video, can be viewed remotely from 4 cameras at once on one EVDO cellular uplink. Internally recorded video is better than can be sent live.

AirLink Cellular Wireless Modem (1xRTT, EVDO, EDGE, GSM, GPRS...) with GPS locator (opt)

Many different digital IP-video streams and continuous digital video recording internal to each **Multi-Stream Video Server** avoid heavy continuous traffic on wireless networks. Live and recorded video is only on demand. A mere 128 Kbps uplink can carry 4 live video streams at once from a stationary vehicle. Any broken wireless video connections are automatically re-established for moving vehicles.

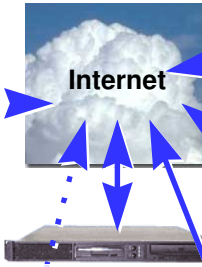
Boundless' ultra low bandwidth, multi-function, *advanced* IP-based, **Multi-Stream Video Server** optimizes remote viewing of live and recorded video over cellular networks. It provides a bank of up to thirty-six MPEG-4 IP-video software encoders with three resolutions per camera simultaneously, internal Network Video Recorder, and search engine in one compact unit. It provides video digitizing, cropping and continuous internal recording with up to nine different IP-video streams *per camera*, post-recording searching with new motion parameters, and communication of live and recorded video only on demand.

Four CCTV cameras, including multiple PTZ cameras with remote control, can be used on each vehicle. An analog wireless camera on officer can give remote live closeups of subjects pulled over. When vehicle is stationary, **Multi-Stream Video Server** can watch for motion in user-selected areas, and give a **Live Alert** using Boundless' fast, instant-messaging system.

Many simultaneous internal IP-video streams per camera, with different resolutions, frame rates and data rates, optimize live and recorded video for remote **situation assessment, monitoring** and **investigations**, and for use from moving and stationary vehicles. Three resolutions, including VGA for full camera resolution, are provided simultaneously and continuously for each camera.

VGA, QVGA and QQVGA resolutions

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Boundless' **Name Server** resolves dynamic IP addresses used by **Multi-Stream Video Servers**. Or, Boundless' **Tunneling Broadcast Server** supports **Live Alerts**, dynamic IP addresses and non-routable networks, and enables many to view same stream in **Control Panel** simultaneously without burdening slow uplinks.



Mobile Command Center

Wireless laptops with Boundless' **Control Panel** client viewing and searching software access Boundless' **Multi-Stream Video Servers** for live and recorded video, and to quickly search recorded video. Dozens of cameras can be viewed simultaneously with only a few hundred (total) Kbps of downlink. Opt. **Live Alert** (yellow) shown.

Optional **HTTP Server** provides secure web page for viewing situation assessment video's selected by Dispatcher on handhelds.



Mobile teams view live or recorded video selected by Dispatcher on selected Pocket PC, Palm Treo, BlackBerry, cell phones.



Command Center with Boundless' **Broadcast Control Panel** client viewing, searching and transcoding software on PC's. Dispatcher selects live or recorded video for viewing by mobile teams on handheld devices. Laptops can also view selected video in Windows Media Player.