



Boundless Security Systems, Inc.

the communications bandwidth experts

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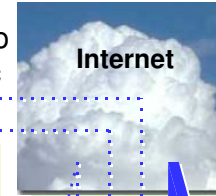
Ultra Low Bandwidth *Boundless Security System™* for Public Safety, RoIP Networks

Boundless uses bandwidth-saving, video-on-demand with many different digital IP-video streams per camera and continuous near-camera recording, not bandwidth-wasting, video streaming with central recording of a single digital video stream. Boundless internally records better video than can be sent live. Many different recorded digital video streams per camera, and hyper rapid access video file system, provide very rapid searching and remote access to desired recorded video. Very low data rates (< 32 Kbps) can be used for live video with many frames/sec.



Data rates as low as 8 Kbps for live video are suitable even for narrowband, public safety, wireless networks with IP-rádios.

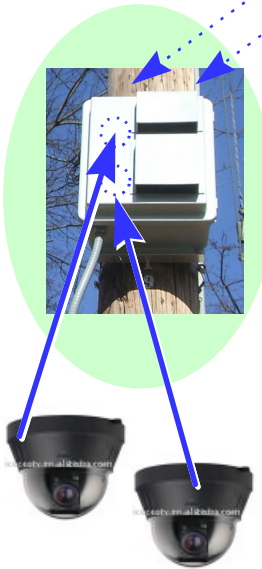
Boundless' *Multi-Stream Video Server* can tunnel through routers that block remote access to other servers. It quickly reconnects when its dynamic IP address changes. It can use multiple *VPN & Tunneling Broadcast Servers* for redundancy.



Redundant servers in different locations ensure service

Boundless' *VPN & Tunneling Broadcast Server* is destination of tunnels originated by users and Boundless' *Multi-Stream Video Servers*. It's an anonymizer / proxy that conceals their IP-identities and provides encrypted communications. It's many 1,024- or 2,048-bit security keys ensure valid access, and can be revoked when equipment is lost or stolen. It broadcasts video streams to response teams with many users at once avoiding additional loads on precious wireless uplinks. It provides a specialized name server, securely providing IP-PTZ control of many *Multi-Stream Video Servers* symbolically.

Able to handle sensitive information for the Criminal Justice Information System (CJIS) Boundless' outdoor equipment contains Boundless' ultra low bandwidth, IP-based, *Multi-Stream Video Server*. Its tunneling option provides a centrally-revokable security key. It provides continuous internal digital video recording, secure encrypted remote access, controllable live and recorded video uploads, and remote IP-based PTZ control, even on wired and wireless, wide area networks that block remote access and control from the Internet to other outdoor video surveillance servers.



Two CCTV or mini-PTZ cameras are covertly concealed in each Boundless' *Outdoor View*. Up to eight different IP-video streams per camera simultaneously, with three different resolutions and multiple frame rates, compressions and data rates, optimize video for live and recorded viewing, situation assessment, monitoring and investigations, and for stationary and moving cameras.



VGA, QVGA, and QQQVGA at once

Radio-over-IP (RoIP) data network



Mobile forces, and Temporary Mobile Command and Control Centers with Boundless' *Control Panel* live and recorded viewing and searching client software, securely communicate with Boundless' *Multi-Stream Video Servers* via Boundless' *VPN & Tunneling Broadcast Server*. Able to handle sensitive information for CJIS, communications are encrypted and terminal-specific cyber-security keys can be revoked if equipment is lost or stolen. Boundless' *Broadcast Control Panel* at HQ enables users to view video selected by a dispatcher, without special viewing software on each mobile data terminal.

Boundless' Multi-Stream Video Server has been used on five continents with wireless, wide area networks as slow as 4 Kbps.



Command and Control Centers with Boundless' *Control Panel* live and recorded viewing and searching client software, communicate with Boundless' *Multi-Stream Video Servers* securely via Boundless' *VPN & Tunneling Broadcast Server*