



Boundless Security Systems, Inc.

the communications bandwidth experts

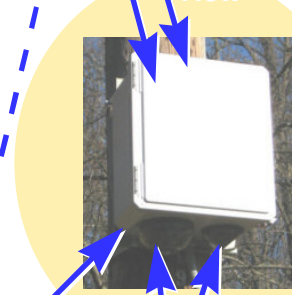
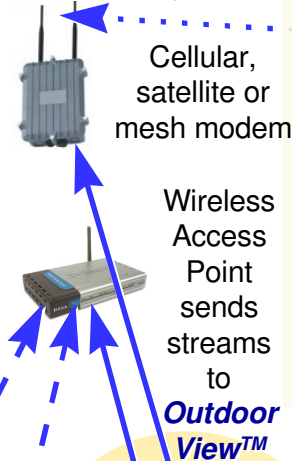
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3 Simm Lane, Unit #1F • Newtown, CT 06470 USA
tel. 203-445-0562 • fax 203-445-0564
www.BoundlessSecurity.com

Transcoding Outdoor View™ Provides Ultra Low Bandwidth, Video Base Station for CCTV and Wireless IP- PTZ Cameras, Near-Camera Digital Video Mass Storage, and Rapid Event Notification

Wireless IP-cameras are convenient because they can be mounted outdoors a mile or more from a host, and run from batteries and solar power, but require too much continuous bandwidth for wide area networks, especially when there are multiple viewers. Boundless' **Transcoding Outdoor View™** receives and transforms IP- / cameras' best quality video streams into ones that are readily communicated over wide area networks, and internally records them with much better quality than can be sent live over wide area networks.



Multiple user-supplied MPEG-4 fixed or PTZ IP-cameras, e.g., Sony SNC-RX550N, with WiFi



External triggers
Two built-in covert or semi-covert PTZ CCTV cameras



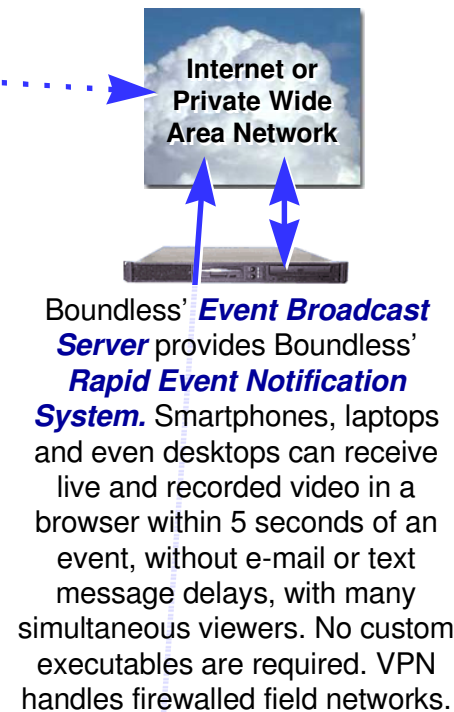
VGA, QVGA & QQVGA simultaneously

Internally recorded video is sharper than can be sent live and avoids flooding wide area networks with continuous video
Boundless uses bandwidth-saving video-on-demand with near-camera recording, not bandwidth-hogging video streaming with distant recording. Many different digital video streams and recording internal to **Outdoor View™** provide better recorded video than can be sent live and avoid heavy continuous traffic on local and wide area networks. A mere 256 Kbps uplink can carry four live QVGA video streams simultaneously at 15 fps. **Instant Replay** enables quick selection and uploading of exact segments of highest resolution recorded video for sharpest images.

Boundless' Outdoor View™ Works Where Others Don't

Weatherproof, salt-fog rated system contains an internal, ultra low bandwidth, IP-based, Boundless' **Multi-Stream Video Server** with two CCTV and two IP-inputs, up to 1 TB of internal disk storage, thermal management system, and shutdown UPS. It is a transcoding, digital video surveillance, pole camera base station that does not overload local or wide area wireless networks. A two-stage heat exchanger cools internal equipment and protects it from dust and environmental pollutants. Two CCTV cameras are digitized, two IP-cameras are decoded, many different streams are formed, all are compressed with MPEG-4 and recorded internally with better quality than can be sent live. Boundless' **Rapid Event Notification System** detects zoned motion and external triggers, and gives prompt notification.

Internal Boundless' **Multi-Stream Video Server** creates up to eight internal MPEG-4 IP-video streams *per camera* simultaneously, with different resolutions, frame rates and data rates, optimizing video for live and recorded remote viewing for **situation assessment**, **monitoring** and **investigations**. Three resolutions are produced simultaneously for each of two internal CCTV cameras and two external IP-cameras. All streams are available remotely recorded, and, if bandwidth permits, also live.



Boundless' **Event Broadcast Server** provides Boundless' **Rapid Event Notification System**. Smartphones, laptops and even desktops can receive live and recorded video in a browser within 5 seconds of an event, without e-mail or text message delays, with many simultaneous viewers. No custom executables are required. VPN handles firewalled field networks.

Command Center with Boundless' **Control Panel** client live and recorded viewing, and motion searching software on PC's. Many system software integration functions are provided via Boundless' easily used, web-based application programming interface.