



Boundless Security Systems, Inc.

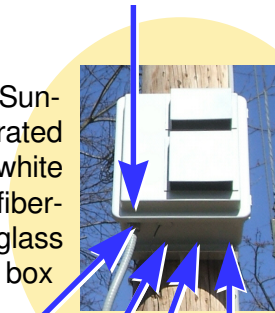
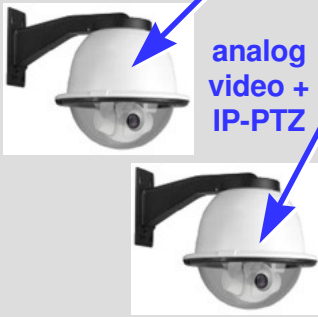
the communications bandwidth experts

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

Boundless' Weatherproof, Ultra Low Bandwidth, **Outdoor View™** Enables Many Cameras to Share Wireless Wide Area Mesh Networks and Provides Massive Near-Camera Digital Video Storage

Quality video from IP-cameras requires too much continuous bandwidth for wireless wide area mesh networks. However, IP-cameras can be used effectively if they have an analog composite video output and it is connected to Boundless' **Outdoor View™**. The **Outdoor View™** provides a pole camera base station that digitally records video internally continuously and provides live and recorded video at ultra low bandwidth. Vast near-camera digital video storage can be provided.

User-supplied PTZ IP-cameras, e.g., Sony SNC-RZ30N and SNC-RX550N

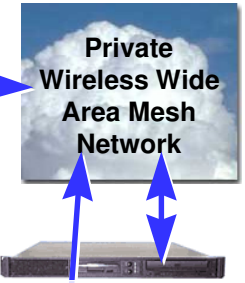


Internally recorded video is sharper than can be sent live and avoids flooding wireless mesh networks with continuous video
Boundless uses bandwidth-saving video-on-demand with near-camera recording, not bandwidth-hogging video streaming with central recording. Multiple different digital video streams and recording internal to **Outdoor View™** provide better recorded video than can be sent live and avoid heavy continuous traffic on WiFi wireless mesh networks. A mere 512 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, *advanced* IP-based, Boundless' **Multi-Stream Video Server** with four analog composite video inputs, up to 1 TB of internal disk storage, thermal and power management systems, and shutdown UPS. It is a pressurized, digital video surveillance, pole camera base station that does not overload wireless mesh networks. A two-stage heat exchanger and four chambers keep equipment in safe operating environments. Video from all cameras is digitized and continuously recorded internally with three resolutions using optimized MPEG-4. Rapid search for motion with post-recording specification of motion parameters is provided. Optional **Live Alerts** give automatic detection and prompt notification of zoned motion. Box approx. 16x13x8 in.

Internal Boundless' **Multi-Stream Video Server** creates up to eight internal 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 up to four cameras. Internal search engine searches hours of recorded video for motion in seconds, using post-recording search parameters.



Boundless' optional **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 overloading uplinks. Instant messaging avoids e-mail delays for **Live Alerts**.



Command Center with Boundless' **Control Panel** client live and recorded viewing, and motion searching software on PC's. Network attached storage on LAN can archive recorded video viewed in **Control Panel** on multiple PC's. Many high-level system software integration functions are provided.