



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

Ultimate Covert Pole Camera Base Station: Boundless' *Outdoor View™* Enables a Cluster of Four PTZ Video Cameras to be Used Outdoors on Cellular Networks at Ultra Low Bandwidth

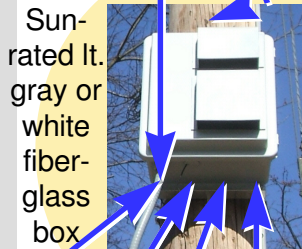
Quality video from IP cameras requires too much bandwidth and too much data each month for cellular networks. However, IP-PTZ cameras can be used effectively if they have an analog composite video output and are connected to Boundless' *Outdoor View™*. The *Outdoor View™* provides a pole camera base station that digitally records video internally continuously and provides digital live and recorded video at ultra low bandwidth.

User-supplied ext. PTZ IP-Cameras (e.g., Sony SNC-RZ30N) in covert housings

analog video + IP-PTZ



User-supplied enclosed, AC / 12 VDC power supply or large batteries in outdoor housings, e.g., with AC power from street light photo sensor



Sun-irradiated lt. gray or white fiberglass box



VGA, QVGA, QQVGA

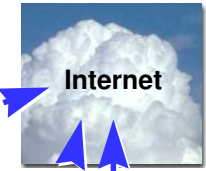
Internally recorded video is sharper than can be sent live and avoids flooding wireless networks with continuous video

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 cellular wireless networks. A mere 128 Kbps EVDO uplink can carry 2 live QVGA video streams simultaneously at 5 fps. **Instant Replay** enables users to quickly remotely select and upload exact segments of highest quality recorded video for sharpest video.

Boundless' *Outdoor View™* Handles Four PTZ Cameras, Including Select IP-PTZ Cameras

Weatherproof system contains an internal, ultra low bandwidth, advanced IP-based, Boundless' *Multi-Stream Video Server*, 2 or 4 analog composite video inputs, IP-PTZ control, thermal and power management systems, and an optional Sierra Wireless *Raven-X* cellular modem. It is a wireless, turn-key, cellular digital video surveillance, pole camera base station that can be set up in minutes and monitored remotely via the Internet. Video from all cameras (not included) is digitized and continuously recorded internally with three resolutions using 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 three 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 two to four cameras. Internal search engine searches hours of recorded video for motion in seconds, using post-recording search parameters.



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.