



# Boundless Security Systems, Inc.

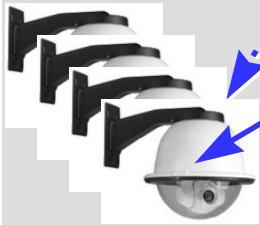
*the communications bandwidth experts*

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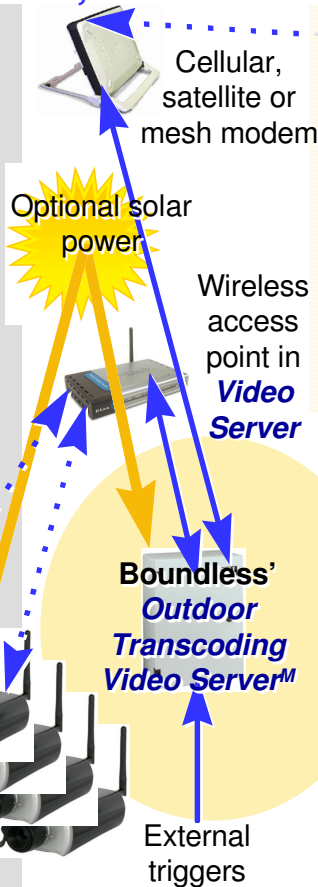
## Boundless' Outdoor Transcoding Video Server™ Provides Rapidly Deployed, Ultra Low Bandwidth Backhaul, Low Power, Wireless, Outdoor Digital Video Surveillance Base Station



Solar-powered, fixed-focus, wireless IP-cameras are convenient because they can be quickly installed outdoors without any other power source, but require too much bandwidth for wide area networks for their best-quality video. PTZ IP-cameras, such as Sony SNC-RZ50N, provide high optical zoom but likewise too much bandwidth, and also too much power for continuous operation from solar power.



Boundless' **Transcoding Video Server™** receives and transforms nearby wireless IP-cameras' best quality video streams into ones that are readily sent over wide area networks. Low power fixed cameras can control power to high power PTZ cameras.



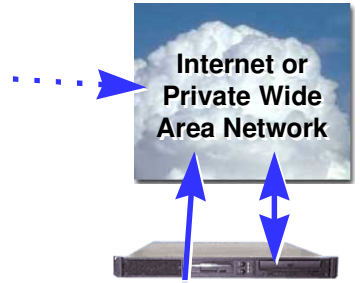
VGA, QVGA & QQVGA simultaneously with 100:1 range of data rates fit all uplinks

*Many different video streams for each camera cover 100:1 range of data rates, enabling multiple live views even with slow uplinks.* 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 **Transcode View™** provide better recorded video than can be sent live and avoid heavy continuous traffic on wide area networks. A mere 256 Kbps uplink can carry live QVGA video streams, each at 5 fps, from 4 cameras at once. **Instant Replay** enables quick selection and uploading of exact segments of highest resolution recorded video for sharpest images.

### Transcoding Video Server Solves Backhaul Problems

Small, weatherproof, low power, salt-fog rated system contains an internal, ultra low bandwidth, Boundless' **Multi-Stream Video Server**. It has up to eight IP-inputs, up to 1 TB of internal disk storage, thermal and power management systems, and shutdown UPS. It is an intelligent, transcoding, outdoor digital video surveillance base station that avoids overloading wide area networks. Its two-stage heat exchanger cools internal equipment and protects it from dust and pollutants. Not just a NVR, video from nearby IP-cameras is decoded, many different live video streams with a 100:1 range of data rates are formed for each, all streams are compressed with MPEG-4 and recorded internally. Boundless' **Rapid Event Notification System** receives motion and external triggers, and notifies users without e-mail delays.

Internal, ultra low bandwidth, Boundless' **Multi-Stream Video Server** creates up to eight internal MPEG-4 video streams *per camera* simultaneously, with different resolutions, frame rates and data rates, optimizing video streams for live and recorded remote viewing for the diverse needs of **situation assessment**, **monitoring** and **investigations**. Three resolutions are produced simultaneously for each camera. All video streams are available remotely recorded, and, if uplink 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.