



Boundless Security Systems, Inc.

the communications bandwidth experts

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CONCEPT: Ultra Low Bandwidth, Boundless Security System™ Provides Video Surveillance for SCADA Systems for Power Lines and Power Stations Using Public or Private Wireless Networks

Live video from 4 cameras on one 128 Kbps uplink

Dedicated or private wireless networks can be used. A 128 Kbps uplink can support four live video streams simultaneously at 15 fps / camera and 160x120 resolution / camera. Video can be viewed locally and remotely simultaneously. Quality of recorded video is independent of quality of live video. Live video streams are as low as 8 Kbps. A wireless IP-data network, or point-to-point modems with IP-data interfaces, can be used.

Boundless' ultra low bandwidth, many-function, x86 Linux-based, **Multi-Stream Video Server Compact** provides video digitizing, MPEG-4 compression, many different simultaneous internal IP-video streams per camera, internal recording, zoned motion detection and **Live Alerts** event notification, rapid motion searching, and IP-communications. The quality of recorded video is independent of quality of live video.

Four fixed and/or PTZ CCTV cameras at each tower give simultaneous north, south, east and west video for continuous, omni-directional, situation awareness.

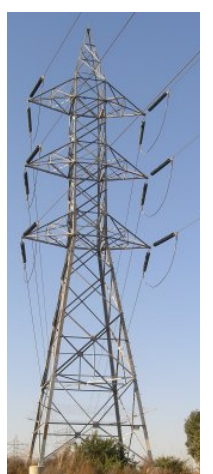
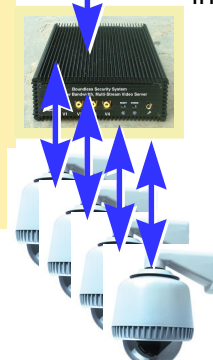
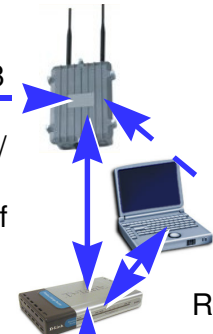
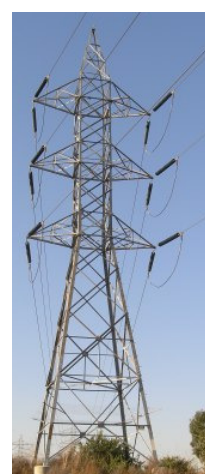
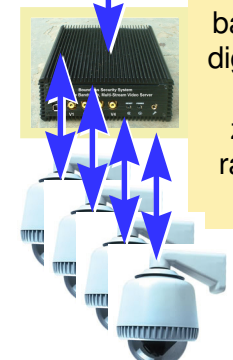
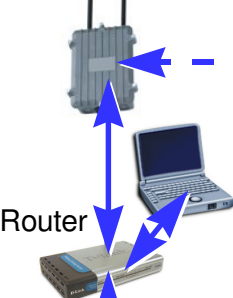
Mobile Repair Crew with wireless video access at ultra low bandwidth. Video uplinks from vehicle can be provided with a **Multi-Stream Video Server** in the vehicle.

Boundless' many simultaneous video resolutions, frame rates and data rates for every camera optimize communications and and quality of recorded video. All video streams are available both live and recorded from Boundless' **Multi-Stream Video Server**.

VGA, QVGA, QQQGA

Dec. 11, 2007

Modem / Radio



Router with optional Internet connection for mobile viewing, and optional Boundless' **Tunneling Broadcast Server for Live Alerts**



Distant Command and Control Center with Boundless' **Control Panel** client viewing software and **Live Alert** (yellow, opt.) detected

Boundless' many-function, ultra low bandwidth, **Multi-Stream Video Server** reduces wireless video traffic 100-fold without sacrificing the quality of recorded video. It supports four CCTV cameras for full, 360° situation awareness. Each **Multi-Stream Video Server** provides live and recorded video, intelligent motion detection (opt.) with **Live Alerts**, and powerful motion search of recorded video with **Rapid Remote Review**, for all cameras simultaneously. Even the slow speed of 64 to 128 Kbps of long-haul, non-line-of-sight wireless communications, can provide real-time, continuous panoramic video to a distant command and control center. Many different digital IP-video streams are produced and continuously recorded *within* each **Multi-Stream Video Server** for each camera to satisfy competing needs for sharp images for investigations, smooth motion for fast action, and fast communications for situation assessment and event / alarm verification. All live and recorded video can be seen in command centers and made available via Internet to mobile repair crews.