



Boundless Security Systems, Inc.

sharper images with better access and easier installation

Scalable, Future-Safe, Ultra Low Bandwidth, *Boundless Security System™* Leverages Public and Public Safety, City- and Municipal-Scale Wireless Networks to Improve Public Safety



Boundless' multi-function, ultra low bandwidth, **Outdoor Multi-Stream Video Server** reduces the video load on wireless networks 100-fold. It can quickly and easily be mounted outdoors, and moved to wherever the crime is each week, or be mounted in vehicles. Each **Multi-Stream Video Server** provides live and recorded video, and programmable searching of recorded video, for four cameras simultaneously. At each 4-way intersection, nothing escapes surveillance when one camera looks down each street. Many kinds of city- and municipal-scale wireless IP networks (WiFi, EVDO, OpenSky™...) can be used. Multiple different digital video streams are produced and recorded *within* each **Multi-Stream Video Server** for every camera to satisfy competing needs for sharp images for **investigations**, smooth motion for **monitoring**, and easy communications for **situation assessment**, by near, far and mobile, law enforcement personnel.



Boundless can help towns keep an eye on thugs. Not a bandwidth-hogging, video streaming system, Boundless' **multi-function, ultra low bandwidth, Multi-Stream Video Servers** internally digitize, MPEG-4 compress, record, search and interpret video, and optionally sound, and only send live and recorded video upon request.



Four video cameras and Boundless' **Multi-Stream Video Server** on a pole or in a vehicle provides continuous, autonomous, 360-degree panoramic views for full situational awareness. Secure System's **PAL** RFID keyfob, or an electronic whistle, can trigger Boundless' **Live Alerts**, enabling city residents or personnel to easily call for help and avoiding needless video monitoring.

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How much bandwidth does video need ?

- Raw, standard definition digital video requires 250 Mbps / camera (HDTV 1080i is 6x = 1.5 Gbps)
- With advanced compression, most vendors call 3 to 6 Mbps / camera "low bandwidth" -- small compared to 250 Mbps but large compared to most wide area wireless network communications infrastructure
- Boundless' ultra low bandwidth, *situation assessment* stream is as little as 8 Kbps, typ. 32 to 64 Kbps / camera, just 1% of others' "low bandwidth," making Boundless' video streams compatible with wide area wireless networks, and enabling many cameras to be carried simultaneously with multiple frames / sec / camera, with no video being sent except upon request

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