

The **Boundless Security System™** digital video surveillance system uniquely and efficiently meets competing imaging needs for monitoring safety and operations, investigations, remote assessment of situations, and rapid search and review of recorded video. **It continuously provides three or more (not just one), different digital video streams per camera.** All are available simultaneously and continuously both live and recorded. **Internal recording of all streams provides zero network traffic except on demand.** Other systems try to handle this wide range of imaging needs with only one digital video stream per camera, compromising image quality, storage duration, communications bandwidth, and video display formatting. Indoor and outdoor, Boundless multi-function, **Multi-Stream Video Servers** are available.

Boundless' multi-function, **Multi-Stream Video Server**



Access control, event, PTZ

All video streams are produced all the time for each camera (all parameters are programmable)

Investigations Stream has sharpest images with highest resolution and fewest artifacts, 5 fps (typ.), and highest data rate (typ. 0.5 Mbps, max. 2 Mbps)

Monitoring Stream has medium resolution, smoothest motion at high frame rate (10 fps to 30 fps), and medium data rate (typ. 192 Kbps, max 750 Kbps @ 30 fps)

Situation Assessment Stream has lowest resolution and data rate (typ. 32 Kbps, max. 64 Kbps @ 10 fps, or 125 Kbps / 250 Kbps @ 30 fps)



Deeper shadow indicates higher data rate

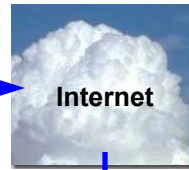
Ethernet Switch and Router

Wired or Wi-Fi

Live and recorded video are only sent when requested, with the lowest data rate needed for display, minimizing the communications burden on local area networks and Internet. Optimized MPEG-4 video encoding maximizes frame rate and image quality for a given data rate.



Boundless' attention-grabbing **Live Alerts™** avoid needless on-site and remote video monitoring, deter crime, and help victims get help quickly.



View dozens of live and recorded video streams simultaneously at multiple frames per second per camera on wireless devices at ultra low data rates.

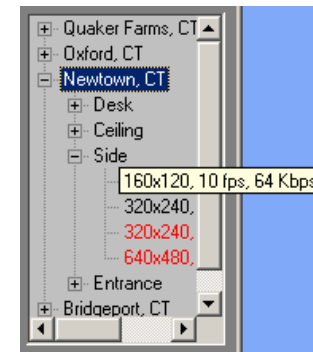
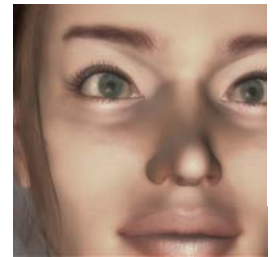


Boundless Security Systems

sharper images, better access, easier installation

Boundless' Digital Video Surveillance System Records Sharp Images and has Extremely Low Communications Bandwidth

Get the Boundless **Multi-Stream Advantage™**:
We put you there !



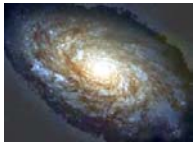
Sites / Cameras / Streams in Boundless' **Control Panel** client viewing software

Multiple simultaneous different digital video streams per camera satisfy competing needs for sharp images, smooth motion, and easy remote access, and make Wi-Fi video surveillance practical

Internally IP-based for superior connectivity and expansion, the pre-scaling of video streams in Boundless' multi-function, **Multi-Stream Video Servers** reduce CPU requirements of display PC's and network communications by **more than 95%**. One can view up to 63 live and recorded video streams, in any combination, from as many sites at once, on each fast PC using Boundless' **Control Panel** client viewing software.

Boundless Security Systems, Inc. (BSSI)

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Benefits of the Ultra Low Bandwidth, *Boundless Security System™*, Multi-Stream, Digital Video Surveillance System

- ★ Satisfies competing image quality, storage duration, network traffic, and display-formatting needs by simultaneously and continuously providing three or more, not just one, live and recorded MPEG-4 video streams for every camera, with each stream optimized for a particular use:
 - **Investigations Stream** has highest resolution, clearest images, highest CPU load for display-formatting, and highest data rate (typ. 0.5 Mbps, max. 2 Mbps)
 - **Monitoring Stream** has medium resolution and smoothest motion, medium CPU load for display formatting, and medium data rate (typ. 64 Kbps, max. 250 Kbps @ 10 fps, or typ. 192 Kbps, max 750 Kbps @ 30 fps)
 - **Situation Assessment Stream** has lowest resolution, lowest CPU load for display-formatting, and lowest data rate (typ. 32 Kbps, max. 64 Kbps @ 10 fps, or typ. 8 Kbps @ 1 fps)
- ★ Internally records all streams continuously, ensuring no information is missed and giving low, video-on-demand bandwidth
- ★ Multiple housings for versatility
- ★ Indoor and outdoor, multi-function, *Multi-Stream Video Servers* available
- ★ Internal recording, ultra low bandwidth and multiple streams per camera make Wi-Fi video surveillance practical
- ★ Provides internal recording of DVR's with scalability & access of IP systems
- ★ Most-efficient video display formatting, view dozens of cameras at once per PC
- ★ Powerful, multi-zone (128 zones) motion searching of recorded video with ultra low bandwidth remote review
- ★ Embeds event data in video streams and discriminates it automatically at point of display, providing **Monitoring Automation™** with attention-grabbing **Live Alerts™**
- ★ x86 Linux platform for recording, forwarding and searching avoids sole-source supply and service problems
- ★ Boundless configures systems remotely so systems integrators do not have to
- ★ Uses CCTV cameras, and standard- and high-definition IP cameras (opt.)
- ★ Sold turn-key to systems integrators & installers, or software-only to OEM's
- ★ **CALL US NOW TO OFFER YOUR CUSTOMERS THE SAFETY AND ECONOMY THEY DESERVE**

The *Boundless Security System™* **puts you there.** There are many indoor and outdoor, commercial and government applications.



Critical Infrastructure, Borders, Fences, Harbors, Highways, Railroad Tracks

Construction Sites, Military Bases, Oil Refineries, Power Plants, Storage Terminals



Banks, Factories, Office Buildings, Retail, Schools, Warehouses

Armored Trucks, Delivery Vehicles, Emergency Vehicles, School Buses



Boats, Planes, Trains

Bridges, Streets, Overpasses, Roof Tops



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