



Boundless Security Systems, Inc.

sharper images with better access and easier installation

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Concept: Ultra Low Bandwidth, *Boundless Security System™* for Construction Sites and Highways Using Mobile, Portable Highway Platforms and Wireless Cellular Communications



Candidate Highway Platforms for Boundless' Mobile and Temporary, Cellular Video Surveillance

Benefits of Integrating Boundless' *Multi-Stream Video Server* into Highway Platforms:

1. satisfy temporary needs for live and recorded outdoor video surveillance with sharp images, smooth motion, and ease of setup
2. provide comprehensive digital video surveillance for 4 cameras simultaneously, with continuous capture of 4 CCTV cameras, efficient MPEG-4 compression, multiple stream formation, internal recording, and remote live and recorded video and searching
3. operate continuously with solar power and battery backup, or for weeks with fuel, a low-power generator and battery backup
4. only 128 Kbps (total) cellular or other wireless uplink required for all 4 cameras simultaneously with 5 frames/s/camera
5. only 35 watts (total) power dissipation for video digitizing, compression, local recording, searching and wireless transmission

Recommended Implementation:

1. two fixed and two PTZ (opt) CCTV cameras on pole or tower of mobile highway platform for 360-degree viewing with closeups
2. Boundless ultra low bandwidth, multi-function, *Multi-Stream Video Server Subminiature* inside compartment of mobile platform
3. 1xRTT, EV-DO, GSM or GPRS cellular wireless modem inside compartment and connected to antenna on top of pole or tower
4. cameras and wireless modem connected to ultra low bandwidth, multi-function, Boundless *Multi-Stream Video Server*
5. power the surveillance equipment from deep-discharge marine batteries that are charged by solar power or generator
6. tow unit to site, erect pole or tower, and begin 4-camera video surveillance with remote monitoring and motion searching
7. immediate setup and communications using widely available cellular data networks and dynamic IP addresses

Nov. 15, 2006. Graphical representation only. Boundless does not provide the highway platforms shown above.