Boundless Security Systems, Inc.

sharper images with better access and easier installation

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Typical Video-on-Demand Data Rates for Boundless' IP-Based, Digital Video Surveillance System with Distributed Storage

- Distributed internal recording and video-on-demand save 90+% bandwidth of conventional IP-based systems by avoiding continuously sending live video to distant storage servers
- Data rates depend on many factors, including resolution, clarity (amount of compression), subject and camera motion, whether images are viewed live (artifacts not very noticeable at medium to high frame rates) or recorded (viewing and enlarging with freeze frames requires fewer artifacts), camera noise/sharpness/scanning, lighting and scene detail
- *Nominal not-to-exceed* live, video-on-demand internal data rates below (typ. usage is 40% to 60%) use Boundless' optimized MPEG-4; 1.5x - 2x data rates are recommended for video streams from stationary cameras viewed recorded for investigations using freeze-frames

	1920x960 (live)	640x480 (live)	320x240 (live)	160x120 (live)
Stationary camera, 5 fps, low motion	1.5 Mbps (est)	256 Kbps	64 Kbps	16 Kbps
Stationary camera, 5 fps, med. motion	3 Mbps (est)	512 Kbps	128 Kbps	32 Kbps
Mobile camera, 5 fps highway speed	4.5 Mbps (est)	768 Kbps (est)	192 Kbps	48 Kbps
Stationary camera, 15 fps, low motion	3 Mbps (est)	512 Kbps	128 Kbps	32 Kbps
Stationary camera, 15 fps, med. motion	6 Mbps (est)	1 Mbps	256 Kbps	64 Kbps
Mobile camera, 15 fps highway speed	9 Mbps (est)	1.5 Mbps (est)	384 Kbps	96 Kbps

6X 4X 4X 2X 3X 3X 2X

most frequently viewed video

June 6, 2007. Data rates are Boundless' combination of constant bit rate and variable bit rate. Data rates are internal to Boundless' ***Multi-Stream Video Servers***, unless live or recorded video has been requested by client viewing software. Some values are optional.