

SmartVeillance[®] Lite Series Network Appliances for Visual Intelligence



Advanced Video Analytics

Intelligent NVR

Video QoS Monitoring

Compact Network Appliance

The SmartVeillance[®] Lite is a fully integrated video analytics network appliance that fuses high-density multi-processor hardware with advanced video analytics and intelligent recording to deliver unprecedented results for business intelligence and security applications. Applications range from intersection monitoring, to face detection at remote border crossings. SmartVeillance Lite feature:

■ Breakthrough Performance

Innovative use of multi-processor architectures enabling multi-channel, megapixel, high frame-rate, concurrent video analytics

■ Advanced Analytics

Comprehensive library of leading edge video analytics algorithms performing complex analysis with accurate results

■ Compact Processing

Small form factor allows easy deployment in spaced constrained or unorthodox locations, performing analytics processing and storage near the camera

■ Analytics & System Flexibility

Dynamically reconfigurable and schedulable analytics on selected camera in new or existing video networks

■ Distributed Intelligent NVR

Integrated storage with metadata tagging allowing rapid and sophisticated forensic search

■ Video QoS & System Integrity Monitoring

Continuous monitoring of video quality, camera tampering and network device operation

■ Rapid Deployment & Failover Support

Automatic system awareness and self-discovery with SmartVeillance technology for easy deployment in any IP network

Technical Overview

Video Analytics

Includes SmartVeillance Advanced Analytics with diverse functionality and exceptional accuracy for applications in retail, hospitality, banking and critical infrastructure.

- Extensive library of field-hardened algorithms available in application-focused suites or custom bundles
- Variable complexity activity detection
- Adaptive-learning algorithms & complex background modeling
- Optimized for difficult environments including outdoors, changing lighting, water and shadows
- Advanced functionality including multi face detection, etc.
- Allow generation of real-time metadata and alerts

Intelligent Video Framework

Optimized video hardware and advanced analytics for the ultimate in analytics performance.

- Scalable to multi-channel analytics
- Concurrent analytics per camera
- Megapixel and high frame-rate video analytics
- Multi-gigabit I/O for high-throughput video
- Bandwidth throttling and video transcoding
- Activity detection on all video channels

Intelligent NVR

Integrated intelligent storage enabling distributed video management for high-resolution storage.

- Allow metadata indexing of video feeds for rapid and effective forensic search
- Non-destructive video recording with independent metadata storage
- Supports additional manual tagging of video
- MySQL industry standard database
- HTTP streaming of live/historic video and XML based metadata for interoperability and integration with third-party systems

Video Formats

- IP video input/output
- Color, B&W and thermal cameras
- MJPEG, MPEG4, H.264
- CIF, 4CIF @ up to 25 fps (Varied based on Analytics)
- 16CIF @ up to 15 fps (Varied based on Analytics)
- Transcoding between input and output formats

User Interfaces

Available graphical UIs allow advanced visualization, control and video mining for security & intelligence applications.

- SmartVeillance VSW : video management software with advanced metadata visualization
- SmartVeillance Sensnet:
 - Analytics management: Configure and refine analytics for optimized detection and analysis
 - System-wide management: Centrally control and monitor all components of SmartVeillance systems

Video QoS Monitoring

Real-time camera and network integrity monitoring. Camera tampering, vandalism and redirection detection

- Video luminance, chrominance, focus, SNR, clipping and frame rate monitoring

Auto Configuration & Failover Support

Unified SmartVeillance management with complete network awareness using SmartVeillance technology :

- Automatic negotiation between appliances for resilient operation in the event of partial network failures
- Easy configuration, distribution and maintenance of analyzers and storage
- Automatic self-discovery of SmartVeillance components for easy scalability

Physical

- Form factor: Shuttle Form Factor
- Dimensions:
 - HxWxD: 196x208x323 mm
- Power consumption: 100 - 240V AC (300W)
- Storage Interface :
 - (2) SATA 3G
 - (2) SATA 6G
- Environmental:
 - Operating temperature: 0°C to +35°C
 - Storage temperature: -10°C to +85°C
 - Humidity: 0% to 90% (non-condensing)

Product Configurations

The SmartVeillance Lite Series network appliance is available in the following hardware configurations:

Product	# of Analytics Channels*	Intelligent Storage
Lite 10	10 (1 Advanced)	4 TB
Lite 20	20 (2 Advanced)	4 TB

*channel count varies based on analytics complexity, frame rate and resolution of video channels



For demo & inquiries, please contact

