SmartVeillance® Enterprise
Network Appliances for Visual Intelligence

> Advanced Video Analytics
>
> Intelligent NVR
>
> Video QoS Monitoring
>
> Enterprise Class Appliance

The SmartVeillance® Enterprise is a fully integrated video analytics network appliance that supports distributed or centralized analytics processing. SmartVeillance Enterprise appliances fuse high-density multi-processor hardware with advanced video analytics and intelligent recording to deliver unprecedented results for security intelligence and applications:

■ Breakthrough Performance

Innovative multi-processing video architecture 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

■ Enterprise Processing

Innovative network architecture to solve network bottlenecks by performing analytics and storage near the camera

■ Analytics & System Flexibility

Dynamically reconfigurable and schedulable analytics on analog or IP cameras in new or existing video networks

■ Distributed Intelligent NVR

Integrated storage with metadata tagging allowing rapid and sophisticated forensic search

■ External Storage Expansion

External storage expansion through NAS boxes

■ 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

| Breakthrough Video Performance | Unprecedented Analytics Accuracy | Dedicated Intelligent Video System | Uniquely Flexible | Future Proof

Technical Overview

Video Analytics

Includes SmartVeillance Advanced Analytics bundles for security and safety intelligence providing exceptional accuracy for applications in retail, hospitality, banking and critical infrastructure.

- Extensive library of field-hardened algorithms available in security and safety intelligence
- 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, complex flow analysis in a crowd, 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 thirdparty systems
- Enterprise grade internal RAID

Video Formats

- Optional analog input with optional hardwares
- 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

Automatic Configuration & 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:2 U Rack-Mount
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  Front: Power/reset, Indicator LEDs
  Rear: 4x USB, 2 x RJ 45 Gigabit Ethernet, 1x Serial, 1x Video Monitor
- Dimensions:
  HxWxD: 3.5x17.2x25.5 (89x437x648 mm)
  Weight: 52lbs (24 kg)
- Power consumption: Max 9A @ 100-240Vac 50-60 Hz
- Regulatory approvals:
  USA(UL listed), Germany(TUV listed), CCC Certification
- Environmental:
  Operating temperature: +10°C to +35°C
  Storage temperature: -40°C to +65°C
  Humidity: 8% to 90% (non-condensing)
- System Health Monitoring
  Power LED, Hard drive activity LED
  2x Network activity LEDs, System Overheat LED
  Power fail LED

Product Configurations

The SmartVeillance Enterprise is available in the following hardware configuration:

Product	#of Analytics Channels*	Intelligent Storage
E'10	10	10 TB
E'20	20	10 TB

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

For demo & inquiries, please contact