SIEMENS

Siveillance SiteIQ Analytics

Siveillance™ SiteIQ Analytics is a modern video surveillance system that is optimized for near area applications. The powerful, server-based video analytics capabilities are ideal for situations that demand reliable and robust detection and tracking such as protecting power utilities, corporate campuses, transportation hubs or other critical infrastructures.

Siveillance SiteIQ Analytics combined with a compatible video management system goes beyond traditional video surveillance to provide separate warning and alarm zones, thereby providing the power to stop security breaches before they occur.

The Perimeter Security video analytics plug-in offers high detection rates and low false alarm rates for sterile zone, perimeter security applications. Suitable for securing both ground plane fence line and building façade scenarios, the innovative, zone-based approach to alarm configuration reliably detects intruders in even the most challenging conditions.

The Perimeter Security Essentials video analytics plug-in is built upon the same high quality, but is offered without license costs exclusively with the Siveillance VMS product family. It offers a simplified and reduced feature set while still providing a superior level of performance.

Typical Applications
Siveillance SiteIQ Analytics may be found wherever a premium perimeter security solution is required:
– Power utilities
– Airports, seaports
– Petrochemical facilities
– Higher education campuses
– Corporate security

www.siemens.com/siveillance

The Perimeter Security video analytics plug-in excels at detecting intruders in conditions that exceed the capabilities of traditional, edge-based video content analytics (VCA) found in many security cameras or the built-in VCA found in many video management systems. It is optimized for situations that demand reliable and robust detection and tracking, while also providing a low level of false alarms.

Perimeter Security supports multiple zone-based detection regions in a single scene. Both façade and ground-plane zones can be utilized to create a comprehensive solution. Zones may be configured to generate simple pre-alarm and alarm events or may be sequenced to handle complex directional scenarios.

Perimeter Security adapts to challenging environmental effects that would result in missed detections or false alarms with conventional, video-based motion analytics. The ability to automatically suppress noise due to varying lighting conditions and focus detection on the critical regions in the scene provides a higher level of protection in critical applications.

Siveillance SiteIQ Analytics

The Siveillance SiteIQ Analytics server-based software platform runs on standard Microsoft Windows Server 2012 R2, Windows Server 2008 R2 or Windows 7 Professional 64-bit operating systems on current generation Intel CPU hardware. Up to 32 video streams from ONVIF conformant IP cameras or encoders are accepted per server to be analyzed by the video analytics processing plug-ins.

The Siveillance SiteIQ Analytics platform supplies alarm events, scene metadata and H.264 video including metadata overlays to integrated video management systems via standards-based interfaces to form a complete perimeter security system.

Video compatibility

Siveillance SiteIQ Analytics accepts up to 32 video streams per server from ONVIF conformant IP cameras. By using commonly supported resolutions and compression standards found on a wide variety of already installed security cameras,

Siveillance SiteIQ Analytics provides advanced video analytics capabilities without the need to replace expensive camera infrastructure.

Easy configuration

A simple web-based configuration user interface empowers security administrators to set up sophisticated video analytics detection rules with an approachable, point and click workflow. Without having to learn the intricacies and limitations of various, camera-specific systems, Siveillance SiteIQ Analytics makes existing and new camera infrastructure operate at a higher level. Mix and match vendors and camera generations; Siveillance SiteIQ Analytics breathes new life into a video security solution.

Integration options

Siveillance SiteIQ Analytics offers simple interfaces for providing alarm events, scene metadata and H.264 encoded processed video to video management systems.

Highlights

- Exceptional low-contrast performance
- Easy set up and configuration
- Flexible multi-zone detection and alarm rules
- Highly compatible with common IP video infrastructure
- Simple integration with network video management systems
- Optical/thermal camera compatibility

Siveillance SiteIQ Analytics – Technical Data

Specifications

Minimum hardware	– INTEL CPU supporting the SSE 4.2 instruction set. INTEL XEON E3-1240v3 or better recommended. – Dual channel 4GB DDR3-1600 – 1 Gbps network connectivity
Supported operating systems	– Microsoft Windows 7 64-bit – Microsoft Windows Server 2008 R2/2012 R2
Video input	– Up to 32 channels per server instance with CIF video input – RTSP/RTP – H.264 (preferred) or MPEG4 – 352x288 (preferred), 704x576, 512x288, 320x240 or 640x480 – Full frame rate (preferred) 25 FPS or 30 FPS; half frame rate 12.5 FPS or 15 FPS – Recommended bitrate 0.5 Mbps for CIF at 25 FPS; Recommended bitrate 1.0 Mbps for 288p at 30 FPS; Recommended bitrate of 2.0 Mbps for 4CIF at 25 FPS
„Perimeter Security" analytics	– Typical detection depth up to 80 meters from camera – Minimum size of detection target is 7 % of the image height – Camera typically mounted less than 5 meters from the ground on a stable platform
Outbound interfaces	– Up to 32 channels of processed video – RTSP/RTP over UDP or TCP – H.264 at 15 FPS CIF resolution – Up to 32 channels of metadata – RTSP/RTP over TCP – Object position, object bounding box coordinates – Events – WS-BaseNotification web service interface as specified by ONVIF – Channel alarm state (Pre-Alarm/Alarm/No Alarm) – Zone alarm state with name of triggered alarm zone
Video management integrations	– Siveillance VMS – Genetec Security Center 5.2 – Milestone XProtect Corporate 2014 – SDC (Siemens Display Client) – SiNVR – Additional VMS integrations possible using standard interfaces