

System Requirements

Analytics Server Hardware Specifications

Form Factor	1U rack
Hard Drive Bay	4 hard drive chassis
Processor	Enterprise Six-core Intel® Xeon® E5- 2400 product family
Processor Sockets	1
Chipset	Intel C600
Memory	8GB RDIMM RAM (2X4GB)
I/O Slots	2 PCIe slots
RAID Controller	Hardware RAID controller with Flash Backed Cache
Operating System	Microsoft Windows Server 2008 R2 SP1 Embedded
Communications	Embedded Dual Port 1Gb NIC
Systems Management	iDRAC7 Express
Power Supply	Dual, Hot-plug, Redundant Power Supply (1+1), 495W
USB Peripherals	USB 2.0 compliant
Rack Support	ReadyRails™ II sliding rails
Dimensions	42.8 x 434.0 x 677.3 (mm)
Weight	Max: 19.3 kg (42.55 lbs)
Warranty	3Yr Dell ProSupport and Next Business Day On-Site Service

FLIR's high performance USS Enterprise server can host the analytics server. One server can hold up to 24* analytics channels and servers can be stacked to accommodate more channels.

Ordering information

Add-On modules (One SDK license included)	
SVA-BSL	Server Video Analytics add-on to Latitude system
Channel packages (One DSF license is included per channel)	
SVA-1R4	One Server Video Analytics channel license for a single concurrent analytics rule chosen from the following four available rules: Motion detection, Presence detection, Path detection or Static object detection.
SVA-1R5	One Server Video Analytics channel license for a single concurrent analytics rule chosen from the following five available rules: Motion detection, Presence detection, Path detection, Static object detection or Loitering.
SVA-1R6	One Server Video Analytics channel license for a single concurrent analytics rule chosen from the following six available rules: Motion detection, Presence detection, Path detection, Static object detection, and Loitering or Area detection
SVA-2R4	One Server Video Analytics channel license for a choice of two concurrent analytics rules chosen from the following four available rules: Motion detection, Presence detection, Path detection or Static object detection.
SVA-3R6	One Server Video Analytics channel license for a choice of three concurrent analytics rules chosen from the following six available rules: Motion detection, Presence detection, Path detection, Static object detection, Loitering detection or Area coverage (Crowd detection).
SVA-PRM	One Server Video Analytics premium channel license for a choice of up to five rules out of all available rules: Motion detection, Presence detection, Path detection, Static object detection, Object removal, Object started, Speed, Directional motion detection, Area coverage (Crowd detection), Motion activity and Rule dependency.
SVA-DPN	One Server Video Analytics channel license add-on; adding the Rule dependency option to SVA-2R4 or SVA-3R6.
SVA-COUNT	One Server Video Analytics channel license for a single People or Car counting application. (up to 22 counter channels)
Server (up to 24* analytics channels, 3 rules per channel)	
SVA-ENT-00N0-00	Server Video Analytics 1U Enterprise Server with Mirrored OS and no internal storage. Hot-plug NL-SAS HDD. Dual, Hot-plug PS. iDRAC7 Express SM. Includes OS optimization for Server Video Analytics application. Server Video Analytics software purchased separately.

*Hardware certified for server SVA-ENT-00N0-00 Assuming D1 video profile in the live stream (Behavior Watch 12 FPS, Count Watch 25 FPS). Combination equation for behavior and counting mix on the same server:

$(X*1.1) + Y \leq 24$, where X is the number of CW channels and Y is the number of BW channels.

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FLIR's Server Video Analytics (SVA) leverage powerful, field-proven video analytic algorithms to turn any camera connected to the Latitude NVMS into an intelligent, proactive, real-time detection system.

Built-in rule-based alert functionality enables control room personnel to precisely define which event warrants an alert, based on an organization's unique needs.

Designed and built for the most challenging environments, FLIR's robust Server Video Analytics products expertly filter out background disturbances. The advanced scene learning feature ignores irrelevant motion or objects, and together with Rule Dependency, delivers high detection probability with extremely low false alarm rates.

Integration with Latitude provides seamless archiving and monitoring of video analytic events inside Latitude's Control Center, where operators see analytic alarm indications as an overlay on live and playback video.

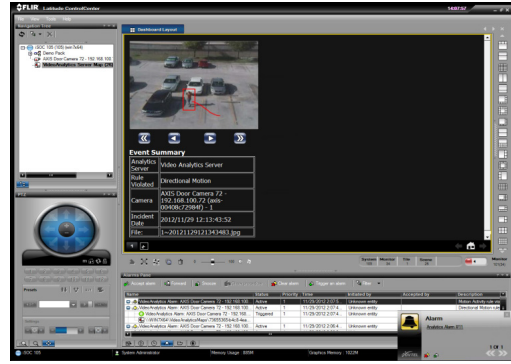
Latitude NVMS will tag, archive and maintain every incident originating from an analytic alarm. These alarms can be managed at a later time to query and retrieve recorded video streams.

Analytics Capabilities

- Motion detection
- Presence detection
- Camera tampering
- Loitering detection
- Path detection
- Speed detection
- Line crossing
- Directional motion
- Crowd detection
- Queue detection
- Static object detection
- Object removal
- Object started
- Object classification
- Rule dependency
- People counting
- Car counting

Why Server Video Analytics?

- Supports any camera connected to FLIR Latitude NVMS
- First class video analytics for challenging environments
- Seamless integration to Latitude
- Low FAR (False Alarm Rate) in any environment or weather condition
- Advanced human/vehicle object classification
- Multiple concurrent detection rules for each video input
- Easy-to-use video detection rules and time-based schedules



Alarm triggered in Latitude for respective camera



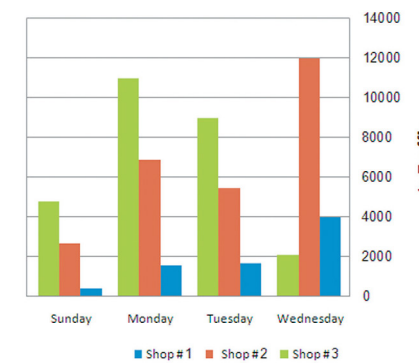
Full Control Center view

How analytics events are managed in Latitude

- Alarms are automatically created in Latitude through simple configuration in AdminCenter
- Analytics incidents trigger alarms in Latitude for the respective camera
- In Control Center, the user can:
 - manage alarms, query for rules violated, retrieve the date and time associated with recorded video for future use
 - see alarms displayed with object tracking overlay on live and recorded video
 - monitor past and present analytics events
- Alarms and snapshots saved in the system can be set-up for storage for a configured period of time
- Multiple analytics servers are supported
- Directory and archiver fail-over support



Intelligent video counting



Easy web-based reporting

Video Counting

People and vehicle counting to assess traffic patterns/ marketing effectiveness

Facility managers in high-traffic public places greatly benefit from an intelligent people and vehicle counting tool to identify traffic patterns, assess effectiveness of marketing activities and optimize resource allocation. Examples of typical market applications include shopping malls, exhibition halls, entertainment centers, stadiums, casinos, theme parks, museums, libraries, airports, train and bus stations.

Intelligent video counting solutions

FLIR's video counting solution leverages advanced video analytic algorithms to provide accurate, in-depth and strategically valuable business intelligence regarding key trends like shopping patterns and traffic movement in real time.

The counting solution requires a separate server and each unit can monitor activity for up to 22* video feeds simultaneously, with up to 100 parallel counting servers networked into a single centralized database. Counting servers retrieve video from Latitude and provide web-based reporting for viewing in Control Center.

Easy web-based reporting

The counting module offers a web-based reporting interface, enabling online access to data. Simple and flexible time-based filters help manage the information for a particular entrance, entire store, or even multiple stores for easy branch comparison. Time defined automatic reports can be emailed directly to a desktop with visual graphic displays of results.

Key video counting features

- Real-time human and vehicle traffic information at your fingertips
- Reports filtered by camera and time period for maximum data clarity
- Easy installation and scalability
- Built-in business statistical analysis tool provides store and branch comparisons
- Remote configuration and management

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