## Vicon's New Valerus SmartAnalytics Brings Real-Time and Post-Event Analysis to Its Popular Valerus VMS Platform



*Transform your video surveillance from a passive tool to a proactive detection system*

Vicon's superior video analytics solution integrates video analytics with Valerus VMS, which enables enhanced and effective detection, prevention, response and investigation as well as the ability to collect valuable business intelligence about the behavior of people and vehicles.

The solution delivers advanced surveillance features for auto alarming on a wide variety of user-defined "rules" and advanced "Smart Search" capabilities as well as real-time business intelligence information. The software is intuitive and easy to deploy and makes it simple for security professionals to efficiently manage and analyze video data.

This suite of powerful analytical tools includes three separate modules, each offering their own unique capabilities. Each module can be purchased separately, or bundled together to meet your specific analytic needs. These tools replace the manual and time-consuming tasks traditionally employed to monitor live video feeds or sift through recorded video.

The tight integration of both video management and analytics makes the Valerus SmartAnalytics suite a smart and cost-effective surveillance solution across all industries, including retail, transportation, financial and commercial businesses. Valerus SmartAnalytics modules is now available to customers running Valerus Enterprise, version 18.2.

---

*Details of the Valerus **SmartAnalytics** tools suite are highlighted below.*

*These powerful analytical tools include three separate modules, each offering their own unique capabilities and are available for purchase separately or as a bundle.*

| Valerus **SmartAction** | Valerus **SmartSearch** | Valerus **Business Intelligence** |
|---|---|---|
| Real-time event detections and alerts | Detailed event searches of pre-recorded video | Define statistical analysts tasks, transforming data to drive business actions |

## Valerus **SmartAction**

**AUTOMATED REAL-TIME DETECTIONS AND ALERTS** – Events of interest are automatically detected through real-time analysis of multiple video sources.

The easy-to-use platform uses pre-defined behavior "rules" that monitor activity across hundreds of video channels, providing alerts and system reactions only when specific behaviors occur. Rules are defined by the user, such as entrance of a secured zone, vehicle stops on highway, or suspicious bag is left behind.
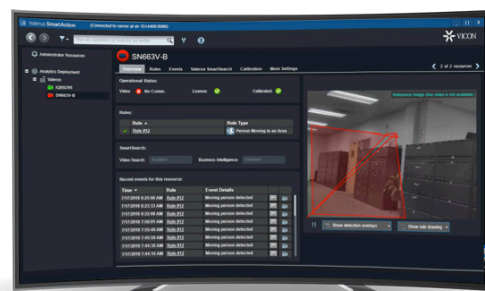
### Features

- Transforms video surveillance system from a passive tool to a proactive detection system
- Detects a wide range of events relating to people, vehicles and static objects
- Analyzes video from multiple sources in parallel
- Enables unlimited combinations of analytics detection rules to be applied to each camera
- Offers innovative "Rule Test" for validation of detection accuracy in the installation phase
- Features an Event Dispatcher tool to enable notification of real-time events via a range of communication applications

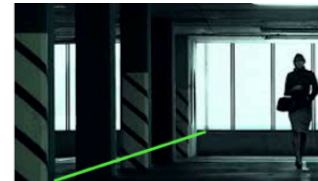### Examples of General Rules for Video Analytics
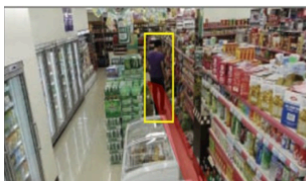
| Loitering | Asset Removed | Suspicious Object | Person Line Crossing |

## Valerus **SmartSearch**

**INSTANTANEOUS VIDEO SEARCH** – Masses of recorded video can be queried and events of interest may be located and extracted within seconds. Offered as a separate module or as a bundle with real-time analytics, SmartSearch offers options to search recorded video for specific events and objects of interest quickly, no other analytics required.

### Features

- Offers extensive range of search parameter filters to pinpoint video segments of interest
- Presents versatile visualization displays that minimize video viewing time
- Delivers rapid results: searches 24 hours of video in a few seconds
- Enables simultaneous search on any number of cameras
- Increases efficiency in investigations relying on recorded video
- Allows search to be applied in near real-time for enhanced situational awareness and incident response

*Simple Solutions for a Complex World*
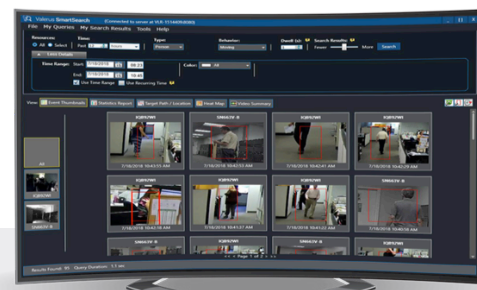
# Valerus **Business Intelligence**

Statistical information regarding traffic volumes, traffic trends and motion patterns can be automatically generated from surveillance video. This transforms surveillance cameras into data collection devices that deliver automated statistical analysis about the behavior of people and vehicles, providing statistical analysis tasks related to people and cars and accurately recognizing the movements of people and vehicles while ignoring motion not relevant to a scene.

For vehicles, measure traffic flow and calculate the average speed in a specific area, providing valuable insights into important aspects like traffic patterns.
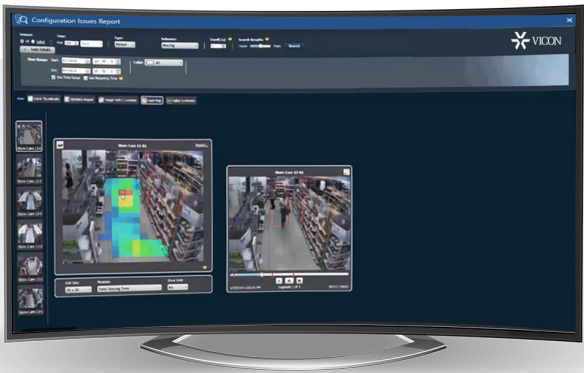
**RETAIL HEAT MAPPING**

A visual representation of customer traffic over time helps build an understanding of shopper activity. Visual mapping of customer behavior and patterns is interactive.

## *Integrated System Diagram*

*This diagram depicts a system in which the **SmartAnalytics** run on the same hardware as Valerus*

*Metadata extraction*

*Valerus Application Server and Valerus SmartAnalytics Server*

*Valerus Recording Server and VCA Service*

*Search query and results*

*Real-time events & bounding box display data*

*Raw Valerus video streams*

*Valerus & SmartAnalytics Client*

NOTE: In this configuration, the VCA Service running on the Valerus Recording Server impacts the number of cameras the server can support.  See detailed specifications for design guidance.

VICON
Simple Solutions for a Complex World

## Software & Hardware Purchasing Options

*Each module can be purchased separately, or bundled together to meet your specific analytic needs.*

PRICING INFORMATION

### SMART ACTION: Real-Time Events plus Search

| Model | Description |
|---|---|
| VLR-ANA-RT1 | Valerus Analytics; enables 1 rule type for Real-Time Events + Video Search queries (*per camera*) |
| VLR-ANA-RT2 | Valerus Analytics; enables 2 rule type for Real-Time Events + Video Search queries (*per camera*) |
| VLR-ANA-RTU | Valerus Analytics; enables all rule type for Real-Time Events + Video Search queries (*per camera*) |

### SMART SEARCH: Search Recorded Events

| Model | Description |
|---|---|
| VLR-ANA-SRH | Valerus Analytics; enables Video Search queries |

### BUSINESS INTELLIGENCE: Business Rules and Statistical Information

| Model | Description |
|---|---|
| VLR-ANA-BI | Valerus Analytics; enables business intelligence rules and generates statistical information (*per camera*) |

### SMARTANAYTICS BUNDLE

| Model | Description |
|---|---|
| VLR-ANA-BND | Valerus Analytics; enables all rule types fo Real-Time Events + Video Search queries  + Business Intelligence (*per camera*) |

### SOFTWARE UPGRADE PLAN: Multiyear Software Maintenance Plans

| Model | Description |
|---|---|
| VLR-ANA-UPP-1 | Valerus SmartAnalytics Upgrade Protection Plan; free upgrades for 1 year |
| VLR-ANA-UPP-3 | Valerus SmartAnalytics Upgrade Protection Plan; free upgrades for 3 years |
| VLR-ANA-UPP-5 | Valerus SmartAnalytics Upgrade Protection Plan; free upgrades for 5 years |

**SERVERS: Vicon Certified Servers with Valerus Smart Analytics Pre-Loaded**

| Model | Description |
|---|---|
| VLR-ANA-SRV | Valerus SmartAnalytics Server; PC preloaded with Valerus SmartAnalytics; desktop; requires separate SmartAnalytics license |
| VLR-ANA-SRV-RK | Valerus SmartAnalytics Server; PC preloaded with Valerus SmartAnalytics; rack mount; requires separate SmartAnalytics license |
| VLR-APP-ANA-SRV | Valerus Application and SmartAnalytics Server; PC preloaded with both Valerus software and SmartAnalytics software; desk-top; requires separate device licenses for Valerus and SmartAnalytics licenses |
| VLR-APP-ANA-SRV-RK | Valerus Application and SmartAnalytics Server; PC preloaded with both Valerus software and SmartAnalytics software; rack mount; requires separate device licenses for Valerus and SmartAnalytics licenses |

## *Maintenance Made Easy*

**STAY UP-TO-DATE WITH UPGRADE PROTECTION PLANS (UPP):** If you're a current subscriber to Vicon's powerful and affordable 1-, 3-, or 5-year Upgrade Protection Plans, you already know that you can download this latest version and take advantage of all the new features. Your Valerus system will automatically unlock these powerful capabilities without any updates to licensing.

**WITHOUT A UPP.** If you are not able to subscribe to the Upgrade Protection Plans, you can still take advantage of the platform enhancements and corrections by downloading this version and installing it. If the new features are exciting to you, simply contact Vicon for a quote on a system upgrade.

*Please contact your regional sales rep or visit www.vicon-security.com for more information*

**VICON**

*Simple Solutions for a Complex World*