



# savVi<sup>TM</sup>

savVi<sup>TM</sup> is a unified video analytics software solution that offers a wide variety of analytics functionalities through a single, easy to use platform that integrates with existing or new surveillance systems. Featuring real-time event detection, video search and business intelligence applications, savVi provides a complete solution to the diverse video analytics requirements of multiple vertical markets.



savVi boasts a set of advanced, automated video analysis tools that provide for the immediate detection and extraction of events and valuable data from surveillance footage, replacing the manual and time-consuming tasks traditionally employed to monitor live video feeds or sift through recorded video. By employing savVi, users can make optimal use of their surveillance systems and allocate their time and attention in a more effective manner, thus increasing the return on investment in the surveillance system, as well as improving overall security, safety and business operations.

### savVi leverages the use of surveillance systems by providing:

**Automated Real-Time Detections and Alerts** – Events of interest are automatically detected through real-time analysis of multiple video sources

**Rapid Video Search** – Masses of recorded video can be queried and events of interest may be located and extracted within seconds

**Comprehensive Business Intelligence** – Statistical information regarding traffic volumes, traffic trends and motion patterns can be automatically generated from surveillance video

### savVi Highlights

- **Scalability** – Allows running a full set of video analytics functionalities on up to 200 cameras per server
- **Flexibility** – Enables deployment of any combination of video analytics applications on every camera with no restrictions
- **Accuracy** – Leverages over a decade of field-proven technology to provide high probability of detection (POD) and low false alarm rates (FAR)
- **Automated Set-up and Calibration** – Offers automated tools for simple, rapid and efficient set-up which eliminate the need for manual calibration
- **Robustness** – Delivers superior results in complex environments, including indoor and outdoor scenes, varying weather conditions and on multiple camera types (fixed, PTZ, thermal, and panoramic)
- **Pure Software Solution** – Runs on COTS hardware
- **Interoperability** – Integrates with the industry's leading video management solutions and cameras
- **Enterprise Grade** – Provides full redundancy and fault tolerance to ensure 24/7 continuous operation
- **Cost-Effective** – Reveals the true potential of the surveillance system for only a fraction of the cost of the entire system

## savVi Real-Time Detections and Alerts

savVi delivers highly accurate real-time event detections, eliminating the need to rely on the alertness or response discipline of the system's operator. Users define potential events of interest in advance and receive alerts when such events occur, enabling rapid responses to incidents, as they emerge.

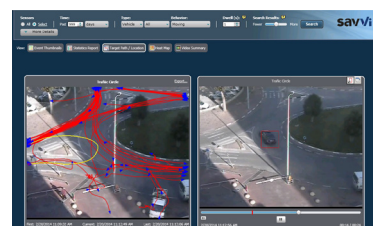
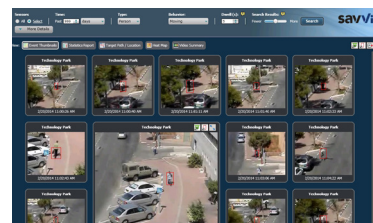
- Transforms video surveillance system from a passive tool to a proactive detection system
- Detects a wide range of events relating to people, vehicles and static objects
- Analyzes video from multiple sources in parallel, and allows complex detection scenarios linking detection rules from different cameras
- 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 (email, SMS, MMS etc.)



## savVi Video Search

savVi boasts automatic and effortless retrieval and analysis of recorded video, replacing cumbersome, labor-intensive, manual searches. Users define parameters regarding the event/object of interest and receive matching search results within seconds, enabling rapid access to specific video segments buried in the stored video.

- 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




## savVi Business Intelligence

savVi offers automated statistical analysis to present traffic volumes, movement trends and motion patterns, enabling effortless extraction of operational data from surveillance video. Equipped with such information, facility managers, marketing leaders and business owners can make educated decisions regarding various operational and resource allocation aspects at their facility.

- Delivers accurate, wide-ranging statistical data related to people and vehicles
- Offers advanced visualization tools including charts, graphs and heat maps, for effortless analysis of the data
- Enables exporting of the raw data for further analysis or integration with other systems
- Enhances operations and marketing decisions for the retail sector through customer behavior analysis
- Provides key metrics for highway operators through vehicle flow and speed analysis





| Real-Time Detection Capabilities   |   |
|--|---|
| <b>Person Rules</b>  | Moving in an area • Crossing a line • Tailgating • Loitering • Crowding • Occupancy   |
| <b>Vehicle Rules</b>   | Moving in an area • Crossing a line • Tailgating • Stopped vehicle • Speed analysis   |
| <b>Static Object Rules</b>   | Suspicious object • Asset protection • Lighting detection   |
| <b>PTZ Rules</b>   | Multiple real-time rules on PTZ presets • Autonomous PTZ Target Tracking  |
| Video Search Capabilities  |   |
| <b>Search Parameters and Capabilities</b>  | Target Type – People, Vehicles, Static Objects • Event Type – Moving, Stationary, Crossing a line, Occupancy, Crowding • Search by Color • Search by Size • Search within defined time frames • Search on selected cameras or group of cameras • Search for Similar Targets   |
| <b>Search Results – Viewing Options</b>  | Thumbnails – Search results presented in video playback thumbnails • Video Summary – Search results presented as one condensed clip of all related events • Target Path – Search results shown as graphical presentation of all motion paths in a scene for identification of trends/anomalies • Site Map – Search results of “Target Path” on a site map, showing multiple camera displays in a single view                                      |
| Business Intelligence Capabilities   |   |
| <b>Business Intelligence Rules for Statistical Reports</b>                           | Count targets (people/vehicles) • Speed analysis (vehicles) • Crowding (people) • Occupancy (people)  |
| <b>Business Intelligence Query Results – Viewing Options</b>                         | Statistical Analysis – Behavioral statistics in graphical and tabular reports • Target Path Analysis – Search results shown as graphical presentation of all motion paths in a scene for identification of trends/anomalies • Heat Map – Visualization of traffic levels to identify high/low traffic zones • Site Map – Search results of “Target Path Analysis” and “Heat Map” on a site map, showing multiple camera displays in a single view |
| Integration Partners   |   |
| <b>Supported Cameras &amp; Encoders</b>  | Axis, Cisco, Hanwha Techwin (Samsung), Hikvision, Verint, Vicon, Vivotek<br>For additional vendors and supported models contact <a href="mailto:support@agentvi.com">support@agentvi.com</a>  |
| <b>Supported Video Management Systems</b>  | Dahua, FLIR, Genetec, Geutebruck, Hanwha Techwin (Samsung), Hikvision, ISS, Milestone, OnSSI, Pelco, Siemens, Verint, Vicon<br>For additional vendors and supported versions contact <a href="mailto:support@agentvi.com">support@agentvi.com</a>   |
| <b>Supported Video Alarm Management Software</b>                                     | SureView Systems<br>For additional vendors and supported versions contact <a href="mailto:support@agentvi.com">support@agentvi.com</a>  |
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Agent Video Intelligence (Agent Vi™) is the leading global provider of open architecture, video analytics software. The comprehensive video analytics solutions offered by Agent Vi extend from real-time video analysis and alerts to video search and business intelligence applications, and are fully integrated with a range of cameras, encoders and video management systems.

Based on Agent Vi's unique, patented, Image Processing over IP (IPoIP™) software architecture – which distributes the video analysis task between the camera and a server – Agent Vi's solutions can support up to 200 cameras running a full suite of video analytics functionalities on a single server, while offering superior accuracy and detection performance.

Integrating Agent Vi's advanced video analytics capabilities into existing or new surveillance networks enables users to benefit from the true potential of their surveillance networks, transforming them into intelligent tools that respond to the practical challenges of the 21st century.