innoVi™ Enterprise

innoVi Enterprise is an innovative video analytics software designed to meet the security and safety needs of multiple vertical sectors. Combining Agent Vi's vast field-proven experience with deployments of all sizes and highly advanced, cutting-edge Deep Learning technology, innoVi Enterprise helps surveillance operators to uncover otherwise hidden events, insights and information.

innoVi Enterprise enables leveraging of the surveillance infrastructure for security applications and beyond, and is available as an Agent Vi Hosted service or Customer Hosted (on-premise) solution.

The table below lists the major technical features and functionalities of innoVi Enterprise.

Product Characteristics	
Algorithm Technology	Cutting-edge "Deep Learning" algorithms which result in high Probability of Detection (POD) & low False Alarm Rate (FAR), with no complex setup
Architecture	Distributed analytics: innoVi Edge component at the remote site network, and innoVi Core server (either Agent Vi Hosted or Customer Hosted) High availability and failover support of all innoVi Core components
Deployment Options	Agent Vi Hosted Customer Hosted
Scalability	Unlimited number of analytics-driven cameras per account
Supported Cameras	All ONVIF / RTSP fixed IP cameras (visual / thermal) for outdoor and indoor environments, are supported by innoVi Edge™
Supported Video Management Systems	XProtect by Milestone Systems For complete and up-to-date information on supported vendors, click here Note: API is available for third party integrations

Management & Administration	
Main Features	
Centralized Management	All configuration and setup is performed centrally
Automatic Calibration	Seamless, continuous automatic camera calibration
Bulk Camera Management	Cameras can be configured as a group
Health Monitoring	End-to-end health monitoring for video devices and event delivery
Ease of Installation, Setup & Maintenance	
Accessibility	Accessible at all times, using standard web browser
Camera Enablement	Cameras are easily added to innoVi and configured within minutes
No Network Configuration (Agent Vi Hosted option)	Connection is established by the innoVi Edge: outbound traffic only (no need for port forwarding)
Software Upgrades	Seamless and immediate availability of upgrades by Agent Vi / Installer
No On-Premise Servers (Agent Vi Hosted option)	No need to purchase and maintain on-premise servers, as cloud servers are managed by Agent Vi

Real-Time Detections & Alerts

innoVi delivers highly accurate real-time event detections, eliminating the need to rely on the alertness or response discipline of the surveillance 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.

Real-Time Detection Rules	
Moving in an Area (Person / Car / Bus / Truck / Motorcycle / Bicycle)	Detects a person / car / bus / truck / motorcycle / bicycle moving in a predefined area
Crossing a Line (Person / Car / Bus / Truck / Motorcycle / Bicycle)	Detects a person / car / bus / truck / motorcycle / bicycle crossing a predefined line
Stopped Vehicle (Car / Bus / Truck)	Detects a car / bus / truck stopped in a predefined area for longer than a predefined time period
Occupancy	Detects a configurable number of people in a predefined area for longer than a predefined time period
Grouping	Detects a configurable number of people closely grouping in a predefined area for longer than a predefined time period
Suspicious Object (Suitcase / Backpack)	Detects a static object (suitcase / backpack) that has been left unattended in a predefined area for longer than a predefined time period
Rule Considerations & Management	
Number of Rules per Camera	Unlimited
Number of Detected Targets	Unlimited
Number of Detection Areas	Unlimited
Number of Rule Schedules	Unlimited
Rule Scheduling	Activate / deactivate rules according to predefined schedules

Real-Time Anomaly Detection

innoVi delivers highly accurate real-time event detections for anomalous events and patterns, bringing an operator's attention to unexpected behaviors and trends that would otherwise go unnoticed. The Anomaly Detection capability identifies events / objects without manual rule configuration or pre-definition, and alerts the operator to such events in real-time.

innoVi's Anomaly Detection algorithm continually learns the distinct characteristics of each scene for particular times of day / days of the week etc. Once the initial learning period is complete, innoVi alerts for different behaviors / incidents / trends that do not match the typical behavior / traffic for that time / day.

Recognizing that not all anomalous events will be of interest to the user, the user provides feedback to innoVi that defines what is of interest (and what is not), thereby fine-tuning future Anomaly Detection results.

Types of objects that will generate events / can be user-defined for alerts	Person, Vehicle, Unknown
Detection Sensitivity	User can define a daily / weekly event rate per camera