



Comprehensive Video Analytics Solutions



Vi-System

High Performance Real-Time Detection & Alert Software

Vi-System is a high-performance, real-time video analytics software that transforms standard surveillance networks into intelligent and effective detection and alert systems.

By performing real-time analysis of the video stream, Vi-System identifies and generates alerts for a variety of user-defined events relating to people, vehicles and static objects. Employed for a variety of applications, Vi-System offers effective monitoring of multiple video sources in parallel, enabling automatic detections, alerts and responses to events, as they emerge.

Based on Agent Vi's open architecture, pure software approach, Vi-System seamlessly integrates with a wide range of edge devices and video management systems, in both new and existing surveillance networks.

Vi-System boasts the combined benefits of superior detection performance, high scalability, installation simplicity and ease of use, making it the most advanced, comprehensive and cost effective real-time video analytics solution on the market.

Vi-System Highlights

Unlimited Analytics on Unlimited Number of Cameras:

The only video analytics solution that enables unlimited analytics functions on an unlimited number of cameras

Superior Detection Capabilities: High detection rate and low false alarm rate in complex environments, including indoor, outdoor and crowded scenes

Wide Range of Detection Functions: A comprehensive solution applicable for detection of events relating to people, vehicles and static objects

Automatic Calibration: Automatic Scene Learning feature eliminates the need for manual calibration, making set-up quick, simple and efficient

Pure Software Solution: The pure software solution reduces overall system costs and enables fast and easy deployment and maintenance

Highly Scalable: Requires a minimal amount of dedicated hardware and offers the best camera-to-server ratio on the market

Open Architecture: The open architecture approach enables integration with a wide range of edge devices and video management systems

Analytics Functions

Vi-System offers a wide and flexible range of analytics detection functions related to people, vehicles and static objects (see back cover). Such functions are available on both fixed and PTZ cameras.

- An unlimited number of analytics rules of any kind and combination can be applied to each camera via a user-friendly centralized management tool
- The analytics rules can be applied to any number of video channels simultaneously
- Complex detection scenarios can be generated by combining or linking detection rules

Applications

- Security and Perimeter Protection
- Safety
- Traffic Monitoring
- Asset Protection
- Business Intelligence

Outstanding Detection Performance

Vi-System offers high performance detection in a variety of indoor and outdoor environments. Featuring high Probability of Detection (PoD) and low False Alarm Rates (FAR), Vi-System is a reliable and accurate real-time video analytics solution, even in challenging conditions such as crowded and high traffic scenes, and adverse weather conditions.



Vi-System Ver. 3.3 SP1 is iLIDS® approved as a primary detection system for operational alert use in sterile zone monitoring applications, following comprehensive testing by the UK Home Office Scientific Development Branch.

Vi-System – An Essential Surveillance Tool for All Sectors and Industries:

Mass Transportation Hubs: Airports, seaports, train and metro stations and bus terminals face security and safety challenges due to the high traffic of passengers and the consequent need for instant responses to threats. Vi-System enables real-time detection of emerging threats such as unattended objects, breaches to secure zones, crowding, loitering, obstructions to the traffic paths and more.



SUSPICIOUS OBJECT LEFT ON PLATFORM

City Surveillance: Law enforcement agencies require awareness of security and safety incidents and violations in large metropolitan areas in order to prioritize events and effectively allocate law enforcement personnel. Vi-System enables real-time detection of crowding, loitering, unattended objects, breaches to secure zones, vehicles traveling in the wrong direction, interference with assets and more.



STOPPED VEHICLE IN NO STOPPING ZONE

Critical Infrastructure: Power, chemical and nuclear plants, dams and telecommunications stations require real-time detection of security and safety breaches to prevent attacks and accidents with severe ramifications. Vi-System enables real-time detection of perimeter intrusion, breaches to secure zones, human or vehicle tailgating and more.



PERIMETER INTRUSION BY PERSON

Government & Military Facilities: Government or military buildings and installations face challenges in ensuring secure and safe environments for personnel, high-level decision-making and protection of valuable assets. Vi-System enables real-time detection of perimeter intrusion, tailgating, vehicles stopped in restricted zones, crowd formation, blocking of fire exits, interference with assets and more.



PERSON IN VEHICLE-ONLY ZONE

Highway Surveillance: Highways and expressways seek to prevent accidents and enhance traffic flow to guarantee safety and ensure the smooth operation of main routes and arteries. Vi-System enables real-time detection of stopped vehicles and traffic obstacles, vehicle counting for traffic analysis and more.



ILLEGALLY STOPPED VEHICLE ON HIGHWAY

Retail: Shopping centers and stores are constantly looking to increase customer safety, improve operational performance and enhance loss prevention efforts. Vi-System enables real-time detection of loitering in high-value product areas, reaching over counters, inventory monitoring of sensitive areas, stock delivery tracking, people counting for analysis of store traffic and more.



PEOPLE COUNTING, INCOMING AND OUTGOING

Software & Hardware Requirements for 200 Cameras

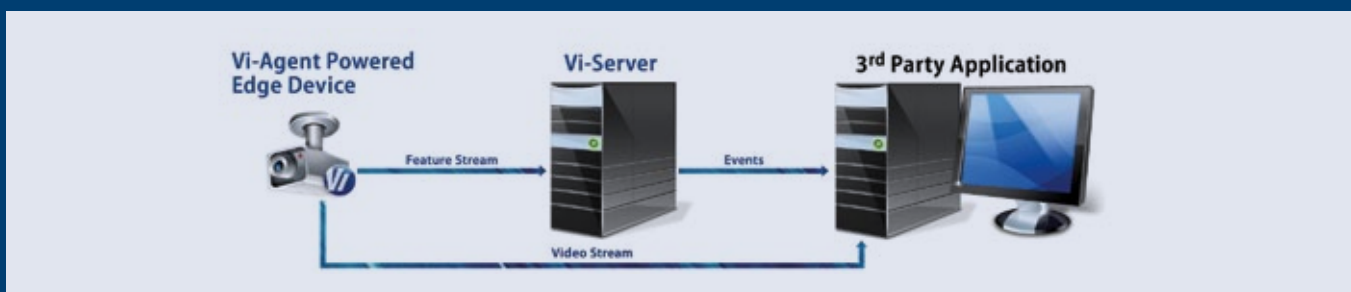
Vi-System Server	<ul style="list-style-type: none"> • CPU - Intel Core i7 2.8 GHz (with 4 cores, or similar), RAM - 4 GB • Hard drive - 100 GB • OS - Windows Server 2008 SP2 or R2 (32-bit, 64-bit), Windows 7 (32-bit, 64-bit)
Vi-System Configuration & Monitoring	<ul style="list-style-type: none"> • CPU - Intel Core 2 Duo 2.66 GHz (or similar), RAM - 2 GB • Hard drive - 50 GB • OS - Windows 7 (32-bit, 64-bit)
Server Scalability	Analytics servers can be easily added to support more cameras Stronger processors can support more cameras on one server

Supported Analytics Rules / Behaviors

Person	Person moving in an area • Person crossing a line • Crowding • Person tailgating • Loitering • Grouping
Vehicle	Vehicle moving in an area • Vehicle crossing a line • Stopped vehicle • Tailgating vehicle • Moving water vessel
Static Object	Suspicious object • Traffic obstacle • Asset protection
Counting	Count people • Count vehicles • Measure stickiness
PTZ Tracking	Preset – Person moving in an area • Preset – Person crossing a line • Preset – Vehicle moving in an area • Preset – Vehicle crossing a line • Autonomous Target Tracking – Vi-Track

Integration Partners

Supported Edge Devices	Axis, COE, IQinVision, Siquira, Verint, Vivotek For additional devices and supported models contact info@agentvi.com
Supported Video & Security Mgmt Systems	Cisco, Genetec, Milestone, OnSSI, Proximex, Salient Systems, Verint, Vicon For additional vendors and supported versions contact info@agentvi.com



Agent Video Intelligence (Agent Vi) is a leading provider of open architecture, video analytics software deployed in a variety of security, safety and business intelligence applications worldwide. The comprehensive video analytics solutions offered by Agent Vi extend from real-time video analysis and alerts to forensic search and post-event analysis, and are fully integrated with a range of third party edge devices and video management systems. 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.

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