

## Technical Specifications

	CPU	RAM	Hard Drive	OS
<b>Vi-Server per 100 cameras</b>	Core2Duo 2.4GHz or better	2GB	200GB per month of storage	Windows XP Professional, Windows Server 2003, Windows Server 2008
<b>Workstation for Vi-Search GUI</b>	Core2Duo 2.4GHz or better	1GB	50GB	Windows XP Professional, Windows Vista

### System Performance

Query time: less than 5 seconds per camera per 24 hours of recorded metadata

Required Metadata Storage: average of 50 MB per camera per day

Metadata content: object classification, size, speed, path, color information

### Supported 3rd party equipment

Cameras & Encoders manufacturers: Axis, Sony, IQinvision, Vivotek (contact [info@agentvi.com](mailto:info@agentvi.com) for a full list)

Video Management Systems: contact [info@agentvi.com](mailto:info@agentvi.com) for a full list

### About Agent Vi

Agent Vi is an enterprise video analytics software company that delivers solutions for improved security, business intelligence and operations. Agent Vi currently has two featured product lines, Vi-System and Vi-Search. Our technology seamlessly integrates with existing video equipment and IT infrastructure, making video analytics feasible, affordable and scalable. The company has proven deployments worldwide with customers in retail, airports, rail, transportation, education, critical infrastructure, utility, government, financial institutions and metropolitan markets.

Introducing the most comprehensive video indexing and search software



# Vi-SEARCH

Turning Stored Video into Manageable Data

For more information visit: [www.agentvi.com](http://www.agentvi.com) or email: [sales@agentvi.com](mailto:sales@agentvi.com)

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**AGENT** 

Security, Asset Protection, Safety, Traffic Monitoring, Business Intelligence

## Vi-Search benefits:

**Drastically reduces the time spent reviewing recorded video:** Users can scan days of video recording in a matter of seconds. This significantly reduces man power requirements and increases video surveillance effectiveness.

**Minimal setup is required:** Contrary to competing video analysis solutions, no parameter tweaking or fine-tuning is required to achieve optimal results. Simply enable Vi-Search on a camera and the software will start indexing the video automatically.

**Uses existing video surveillance cameras to gather statistical data:** Vi-Search enables statistical analysis of the information gathered by all cameras. For example: People counts can be generated and used to determine peak times of the day that require additional staffing. All query results can be displayed in graph form demonstrating event occurrence over time.

**Cost effective to deploy:** One dual core server can provide Vi-Search capabilities for 100 cameras (when using certified camera models). Using Vi-Search requires a minimal amount of bandwidth for each camera removing the need for special considerations when designing the network.

**Open platform:** Vi-Search works with a variety of video management systems and IP cameras offering a best of breed video surveillance solution without the constraints of proprietary solutions.

## Vi-Search: The most advanced video indexing and search software to meet your security and business intelligence needs

Vi-Search is a new software application that integrates into third party Video Management Systems and enables users to search through video content based on intuitive search criteria. Vi-Search is based on the same patented core technology powering Agent Vi's award winning real time analytics solution Vi-System, and can easily be applied to all cameras in an installation.

Vi-Search maximizes the potential security and economic benefits of the historical video content already provided by your current video management system by providing instant access to the information you need without the need for tedious manual reviewing of hours of recorded video.

The software works by continually monitoring each video stream, creating metadata describing all objects in the scene, and storing the data in a database. Once stored, surveillance operators can perform both simple and complex queries according to their desired criteria.

Queries are easily defined using a friendly GUI by specifying parameters such as: which cameras to include, the search time window, type of object to search for, and specific object behaviors. Vi-Search pro-

cesses the query, searches and analyzes the stored metadata information and returns the appropriate search results. The results can be displayed either in the Vi-Search GUI or through an integrated Video Management System's interface.

**Vi-Search offers a variety of search parameters and capabilities including:**

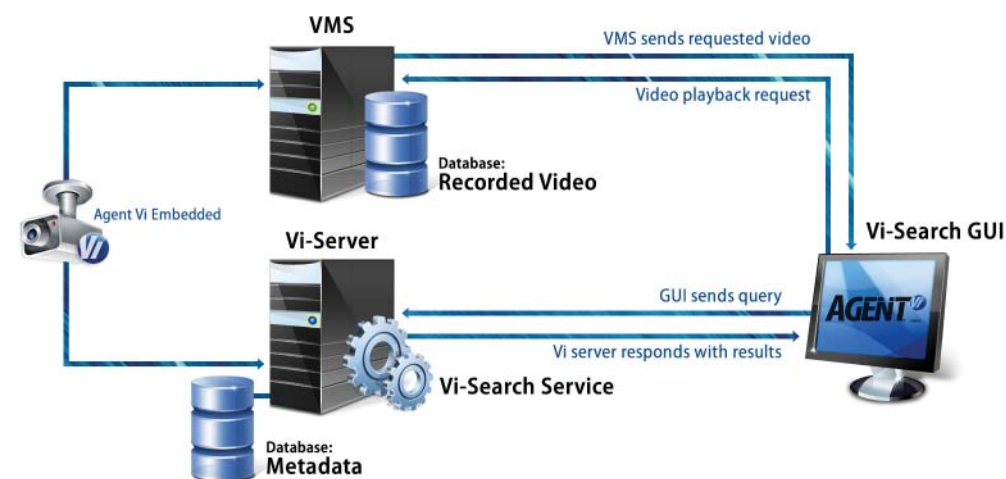
**Object classification:** the software identifies and differentiates between people, vehicles and objects

**Behaviors:** Software records and tags numerous behavioral patterns such as moving, remaining stationary, line crossing, tailgating, crowding and occupancy.

**Filters:** Users can apply a number of filters to aid their search including time, object type/sub-type, dwell time, color, height, etc.

**Identify similar objects:** Objects similar to a target already located can be tracked and identified across all cameras' recordings

**Instantaneous results:** The software can review a day's footage in a few seconds



## Vi-Search Market Segment Applications

Companies can utilize Vi-Search to deliver the most accurate and proactive security intelligence available. The software also acts as a business process monitor providing substantial benefits for prospective operators.

Vi-Search is ideal for any industry that requires video recording analysis and search services including Retail, Commercial, Industrial, Airports, Seaports, Transportation, City Centers, Seaports, and Schools. Some industry specific applications include:

### Airports and Seaports

Vi Search offers a flexible and efficient solution for airports and seaports seeking to improve security throughout their facilities. When a person or vehicle illegally enters an aircraft only zone, these behaviors are tagged and stored in the Vi-Search system. If airport authorities need to identify the perpetrator or require proof of the occurrence, they can quickly search all past video recordings to identify the time and locate the perpetrator. The location of specific vehicles in the airport can also be tagged and tracked throughout the airport through the pathways application. If a red bag is left at an airport gate, authorities can instantly search past video recordings for any instances of individuals carrying similar objects and locate the owner of the bag.

Vi Search is also useful in optimizing airline turnaround time. Through statistical reports generated by the software analyzing passenger flow and queues, airlines can easily identify system delays or other operational issues and address the problems quickly and efficiently

### Transportation

Facilities for rail, bus, subway, and trucking can utilize Vi Search software to improve security and optimize facility operations.

*"Vi-Search maximizes the potential security and economic benefits of the historical video content already provided by your current video management system by providing instant access to the information you need without the need for tedious manual reviewing of hours of recorded video."*

Vi Search is the perfect solution for these complex structures that need proactive security and video intelligence across an entire operation.

If a car accident occurs on the premises, operators can quickly search through hours of video footage according to their search criteria, identify the incident and determine who is at fault. The software also provides up to date statistical data analysis of human and vehicle traffic flow enabling transportation authorities to adjust train and bus times, parking restrictions, or traffic lights to better suit actual conditions.

### City Centers

Vi Search delivers next-generation video search solutions for protection of public facilities including city centers, monuments, and municipalities. Authorities can utilize the search software in the event of suspected criminal activity to quickly locate suspicious individuals in past video recordings and analyze their behavior across days of recorded footage.

If authorities identify a suspect committing vandalism in one particular area, they can track that suspect over multiple cameras and see if he is a repeat offender. City officials can also use historical footage to generate a statistical analysis of past public events enabling them to anticipate traffic issues or determine the optimal number of policeman needed for crowd control.

## Vi Search Viewing Options:

The Vi-Search user interface provides several visual formats for query results. Users can easily transition between these different selections to view their historical video data in an optimized fashion.

**Thumbnail:** The thumbnail view is the best option when searching for a specific event. The user can quickly browse through the multiple query results, zoom in on the relevant options, and view the desired recordings.



**Chart:** The chart view is useful when analyzing a large amount of data to identify general trends and irregularities. For example, the chart generates people counts by the hour or by the day. It can also identify the times of day when a large number of parking and traffic violations occur.

**Path:** The path view provides an overview of all events that occurred in view of the camera allowing an operator to quickly locate any irregularities. The operator can select a specific path from this display and immediately view the video recording associated with it. For example, the operator can view the paths of all people in an area during night time hours and quickly find those that were loitering.

