

AGENT

Comprehensive Video Analytics Solutions



Vi-Search

The Complete Video Search and Analysis Tool

Vi-Search allows you to reap the true benefits of your surveillance network by enabling automatic and effortless retrieval and analysis of valuable information contained in your stored video.

Vi-Search is an innovative video search software that enables rapid and effective retrieval and presentation of specific video segments, events and data from vast amounts of recorded video. While video recording is a basic component of most surveillance networks, the recorded video is rarely utilized due to the lack of an automated and time-efficient solution that enables search and analysis of such stored video. In response, Vi-Search automates the search and analysis process and allows for true leveraging of the stored video.

The software analyzes the video stream, generates metadata describing the scene content, and allows for later retrieval and analysis of the video through an automatic search within the stored metadata.

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

Vi-Search Highlights

Automatic and Time-Efficient

- Scans days of stored video in seconds to display precise results
- Eliminates the need for time-consuming manual search and review of stored video

Search Flexibility

- Enables search by event or search by target parameters, including type, size and color
- Scene metadata is continuously collected and logged, with no need to pre-define search parameters

Highly Scalable

- Can be easily applied and expanded to surveillance networks of any size
- Enables simultaneous search on multiple cameras

Open Architecture

- Integrated with a wide range of edge devices and video management systems
- Search can be conducted through Vi-Search's GUI or an integrated third party video management system

Hardware-Efficient

- Single server can generate detailed and accurate scene metadata for hundreds of cameras simultaneously

User-Friendly

- No complicated set-up or training required
- Operated by simple search queries
- Enables easy export of specific video segments and reports as stand-alone files

Applications

Vi-Search enables utilization of stored video for a wide variety of security, safety, law enforcement and business intelligence applications:

Business Intelligence and Operational Efficiency

applications can benefit from statistical analysis of human or vehicle traffic in specific areas and in distinct time frames. Retail chains and other businesses or organizations can better understand and predict traffic patterns to efficiently allocate resources, provide better customer care, and improve operational procedures.

Forensic Analysis often requires search through vast amounts of stored video to pinpoint certain events, or to trace events back to their origin. Through its wide range of search parameters and capabilities, Vi-Search enables users to locate an event in the stored video with high precision in a matter of seconds and to extend playback time to view additional (before/after) video that may be relevant to the analysis. A stand-alone file containing the relevant video segment can be easily extracted and saved as evidence.

Time-Critical Security and Law Enforcement Operations

require quick and effective responses to events as they occur. Once there is knowledge of a criminal or terrorist activity, events can be traced back for immediate investigation (search can be undertaken on video up to 3 seconds prior to the query), providing law enforcement agencies with a full picture of the event including origin and evolution. In this way, deployment and tactical responses are better informed, improving crisis management.

Vi-Search Offline cuts investigation times dramatically by automatically indexing and analyzing data from pre-recorded, imported video clips from multiple sources and producing search results.

Vi-Search Offline builds on Vi-Search's functionality, to allow the importing of pre-recorded video clips from virtually any source for indexing, making such video clips ready for quick search and analysis by Vi-Search. Depending on the stored video format, Vi-Search Offline is able to generate indexes for the video files at an average rate of x10 and up to x30, making Vi-Search Offline a critical tool for efficient investigations and for gathering business intelligence.

Vi-Search Offline is especially useful for police and other law enforcement agencies that need to conduct speedy and efficient investigations based on surveillance video. In many cases, the video comes from different sources, and without Vi-Search Offline, the investigators must

manually observe hours of video. This can be a lengthy and costly process, which is susceptible to human error, and does not guarantee a quick enough outcome. Vi-Search Offline automates the video analysis process and dramatically cuts down the man hours required for conducting such important investigations.

The software automatically analyzes video files exported from any video recording system including DVRs, NVRs and VMSs. After the video is analyzed, the user can search for relevant footage by a variety of search parameters.

Vi-Search Offline is a stand-alone tool that does not require integration to any external systems.

Search Parameters and Capabilities for Vi-Search and Vi-Search Offline

Vi-Search offers an extensive set of intuitive search parameters and capabilities, including:

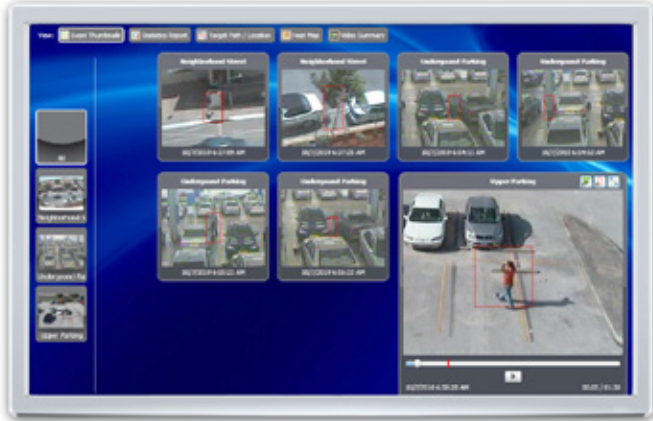
- Target Type – People, Vehicles, Static Objects
- Event Type – Moving, Stationary, Crossing a line, Occupancy, Crowding
- Search by Color and/or Size
- Search within defined time frames
- Search on selected cameras or group of cameras
- Search for Similar Targets – Once a target is observed, a simple search can be conducted to locate additional appearances of the same or similar target in the recorded video



Search and Analysis Functionality for Vi-Search and Vi-Search Offline

Forensic Search

Enables search for particular events or targets in a specified group of cameras and within a distinct time frame, presented in video playback thumbnails



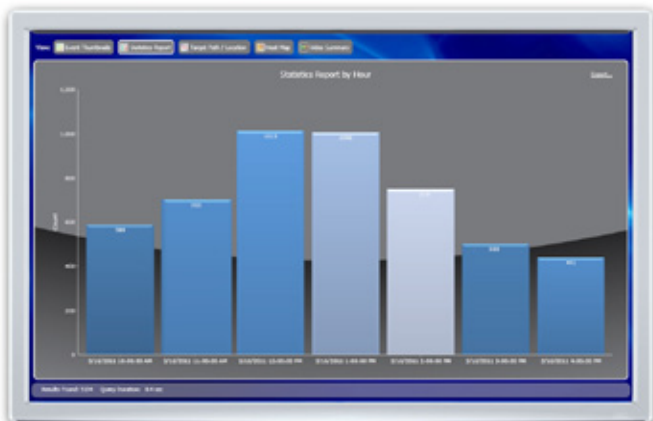
Target Path / Location Analysis

Produces graphical presentation of all motion paths in a scene for identification of trends / anomalies, video playback can be activated for each path



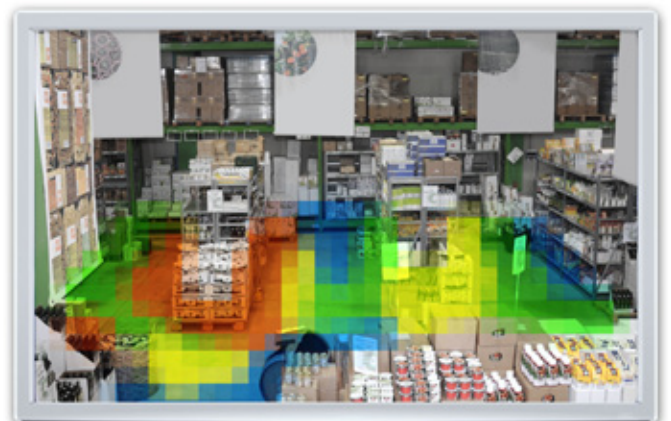
Statistical Analysis

Conducts people or vehicle counting and generates comprehensive statistical reports, for a specified group of cameras and within a distinct time frame



Heat Map

Enables visualization of traffic levels in specified areas in the camera's field of view, for easy identification of high/low traffic zones



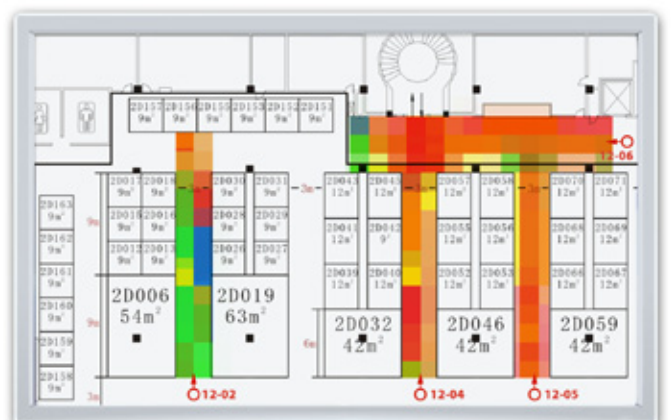
Video Summary

Facilitates effortless debriefing of multiple search results through one condensed clip that reviews all search results



Site Map

Enables "Target Path / Location" and "Heat Map" functionalities on a larger map, showing multiple camera displays in one view



Software & Hardware Requirements

Vi-Search (Up to 200 Cameras)	
Vi-Search Server	<ul style="list-style-type: none"> CPU - Intel Core i7 2.8 GHz (with 4 cores, or similar), RAM - 4 GB Hard drive - 2 GB storage per camera per month OS - Windows Server 2008 SP2 or R2 (32-bit and 64-bit), Windows 7 (32-bit and 64-bit)
Vi-Search Client	<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 and 64-bit)
Server Scalability	Analytics servers can be easily added to support more cameras Stronger processors can support more cameras on one server
System Performance	
Query Time	Average of 5 seconds per camera per 24 hours of recorded metadata
Required Metadata Storage	Average of 50 MB per camera per day
Integration Partners	
Supported Edge Devices	Axis, COE, IQInVision, Siquira, Sony, Verint, Vivotek For additional devices and specific models contact info@agentvi.com
Supported Video Management Systems	Cisco, Genetec, Milestone, OnSSI, Vicon For a list of vendors and supported versions contact info@agentvi.com

Vi-Search Offline	
CPU	Intel Core i7 2.8 GHz (with 4 cores, or similar)
RAM	4 GB
Hard drive	20 GB disk space for configuration and metadata storage
OS	Windows Server 2008 SP2 or R2 (32-bit and 64-bit), Windows 7 (32-bit and 64-bit)
Recommended Monitor	19" (or larger) monitor for configuration and search operations
Supported video files	Video files from fixed cameras are supported: AVI, ASF, MPEG, MPG, WMV

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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