AGENT Vi

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. 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, 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.

Search and Analysis Functionality

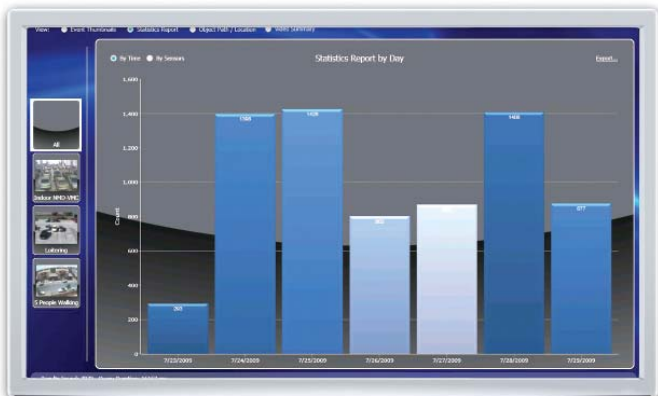Vi-Search provides the following main search and analysis functionalities:

Forensic Search

Enables search for particular events or objects in a specified group of cameras and within a distinct time frame

Statistical Analysis

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

Motion Path Analysis

Produces graphical presentation of all motion paths in a scene, with immediate access to the video segment relating to each path

Video Summary

Allows debriefing of multiple search results through one condensed clip
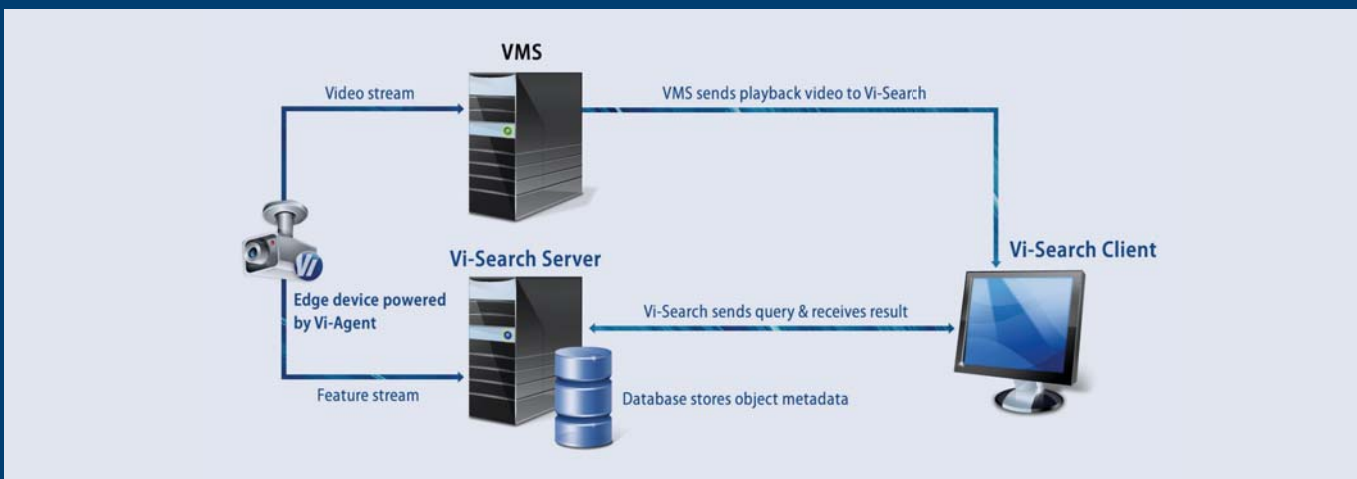
Search Parameters and Capabilities

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

• Target Type – People, Vehicles, 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

Vi-Search is a complete video search and analysis solution. Its open architecture, hardware-efficient approach makes Vi-Search a feasible and effective solution for all markets and industries.

Software & Hardware Requirements	
Vi-Search Server (for 100 cameras)	• CPU - Core2Duo 2.66 GH (or similar), RAM - 2 GB • Hard drive - 200 GB per month of storage • OS - Windows XP Professional, Windows Server 2003, Windows Server 2008
Vi-Search Client	• CPU - Core2Duo 2.4G Hz (or similar), RAM - 1 GB • Hard drive - 50 GB • OS - Windows XP Professional, Windows Vista
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 15 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, MangoDSP, Sony, Verint, Vivotek For additional devices and specific models contact info@agentvi.com
Supported Video Management Systems	Milestone, OnSSI, Vicon For a list of vendors and supported versions contact info@agentvi.com

AXIS COMMUNICATIONS — coe — IQinvision smart camera systems — Mango DSP INTELLIGENT VIDEO SERVERS — milestone — OnSSI IP To The Core — SONY — VERINT — VICON — VIVOTEK

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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