



VIA

Video Incident Analysis Software

Wavestore VIA (Video Incident Analysis) is the premier MOTION DETECTION solution for SMALL TO LARGE-SCALE video surveillance networks. Employing a proprietary image processing platform, the VIA system enables automatic event detection to be rapidly customized to the ever-changing demands of an application.

VIA achieves:

- Unlimited video intelligence
- Flexible installation and operation
- Low total cost of ownership



Automatically detect multiple MOTION events at large-scale digital surveillance networks

Earlier video intelligence solutions do not offer the flexibility to ALLOW integration into large-scale surveillance networks. VIA eliminates this constraint and allows small to large-scale video surveillance systems to employ the power of video intelligence.

Cameras are only licensed as required, offering a huge cost benefit over existing systems.

The software comprises THREE elements:

Primary Processing

The Primary Processor software analyses video images captured by Wavestore recorders. This ensures that every licensed camera in a network with the VIA primary processor can benefit from the wide range of video intelligence capabilities. Analytical data is sent to the processor server at low bandwidth.

Server

The VIA server processes low data rate streams from up to thousands of **ANALOGUE AND IP CAMERAS** on the network. Using proprietary low bandwidth bi-directional architecture, it performs a wide range of pre-configured detection missions in real time.

The server hardware can be custom configured in a variety of ways to achieve a desired level of fault tolerance and redundancy for a specific installation. Likewise it can grow with the system, as the software is designed to support single and multi-processor hardware.

All the system data, including event detection rules and detailed event history, resides on a central database that also provides backup, retrieval, and extensive reporting capabilities.

Command & Control

The command & control software enables users to monitor and handle events, set event detection criteria and control all parameters. A single operator may handle, review, and analyse suspicious activity from thousands of cameras on automatic alert. It minimises the amount of visual information exposed to the operator, alerting only suspected, yet permitting any manually selected incidents to be displayed.

Event criteria rules are applied via a user-friendly wizard that guides the user step-by-step in setting the very powerful rules easily and efficiently.

The application also supports definition of complex multi-camera events (e.g. persons detected by both camera 1 and camera 2 and sequences (e.g. a vehicle stops for more than 1 minute, and driver leaves the vehicle unattended).

Its database function is also used to access and display recorded video of detected events. Users may search the event log for specific records by date, camera name or location, type of event and much, much more.

The command & control can be operated from any PC station on the network.



System Benefits



Unlimited Video Intelligence Capabilities

Automatic Event Detection - Simultaneous handling of multi-type events, multi-camera events, sequence of events, alert levels and many other features. These are all combined for real-time notification and analysis, yet consuming only a small amount of bandwidth.

Flexible - Modify detection rules in minutes in order to meet an application's constantly changing needs, using a powerful and easy to use toolbox.

Configurable - Only those cameras requiring sophisticated motion detection need be licensed. Otherwise, standard Wavestore VMD (which is available on all cameras) can be deployed.

Reliable - The combination of robust equipment in the field and a fail-safe server ensures a very high reliability and field proven solution with notably low FAR (FalseAlarm Rate).

Flexible Installation and Operation

Scalable System Design - Scale-up from few dozens to thousands of cameras, while using all the components originally installed. The Open System is designed for easy integration with a variety of video devices, algorithms and applications
Simple User Interface - Well designed software that makes it easy to manage tens, hundreds or thousands of CCTV, IR, and specialist cameras

Low Total Cost of Ownership

Low installation and maintenance expense - The architecture dramatically lowers bandwidth requirements, and cost is reduced by licensing only those cameras requiring very high-performance motion detection.

Reduced administration cost - All detection rules, configuration data, events and video records are stored on a central database, enabling easy backup and management from any location on the network

An integrated solution - A complete video intelligence system that easily integrates with a variety of video devices and Command & Control applications

For high-end Video Intelligence solutions, VIA eliminates the common trade-off between high-end video intelligence needs and exceedingly high prices. VIA delivers exceptional video intelligence performance at a realistic price.

