

Overview

VisioWave IVP video security software from GE comprises a comprehensive suite of applications that unleash the power of intelligent video surveillance. Finely tuned to work in concert with one another, each application features usability and application flexibility that takes advantage of the versatile line of encoders and storage solutions that make up this cohesive family of products.

From the easy-to-use Video Security Center, which offers graphical control and configuration, to the innovative features found in the Plug-in and Software Development Kits, each software application is designed to expand the range of possibilities available while remaining flexible and easy-to-use.

Standard Features

VSC User Interface

- Point-and-click map-based video switching for instant access to critical areas
- Timeline navigation offers pinpoint playback accuracy
- Embedded content analysis monitors for anomalies
- Versatile video search and playback makes valuable data accessible
- Integrated camera PTZ and setup for one-stop configuration
- Extended multi-user support protects against unauthorized use
- User logs offer verifiable audit trails
- Two-way audio capability for monitoring functions and broadcast capability

Software Development Kit (SDK)

- APIs allow developers to take full advantage of the power behind the intelligent video network
- Permits the development of custom interfaces that maximize operator efficiency
- Comes with an extensive library of sample source code for a short learning curve and inspiration for innovative applications
- Object-oriented ActiveX-based APIs provide a familiar programming environment and compatibility with all standard compilers
- Simple to implement custom interface design, system-wide configuration options, and network management operations

Plug-in Development Kit (PDK)

- Provides programming environment for developers of third-party analytics
- Easy to share architecture
- Extends the capability of the security system by enabling video content analysis

Video Operating System (VOS)

- Robust and scalable platform for intelligent video networks
- Provides hardware support for video streaming, recording, and processing
- Manages maintenance and health monitoring functions

Software Solutions

- VSC User Interface
- Software Development Kit
- Plug-in Development Kit
- Video Operating System



VSC: robust event management, flexible system configuration



GE's VisioWave IVP VSC user interface offers robust event management, flexible system configuration, and scalable control solutions for any VisioWave IVP surveillance application. It provides an intuitive Graphical User Interface (GUI) streamlined for efficient operation and configuration of the intelligent video platform. With point-and-click convenience, the VSC provides users with instant access to individual cameras, map-based surveillance activity, video switching functions, and full pan-tilt-zoom (PTZ) control.

Powerful monitoring features take full advantage of the VSC's intelligent video surveillance technology, giving operators all the tools required for quick and efficient response to even the most subtle anomalies. Embedded video content analysis provides activity detection and camera maintenance monitoring – complete with flexible pre/post-alarm recording and automatic video switching capability. Video playback with timeline navigation allows for pinpoint retrieval accuracy, while multi-criteria search capability (by time, topic, camera, and type) turns vast amounts of stored video into accessible and valuable surveillance data.

Robust two-way audio control adds the dimension of sound to this powerful surveillance package. Intercom capability offers improved public safety, while its audio-out control is ideal for public address broadcasts and even background music in public areas.

Exceptional device control is provided by the VSC, thanks to its full-featured software decoder, which facilitates seamless camera sequencing operations and reliable content analysis triggers. Able to monitor inputs from dry contacts, the VSC also reports and reacts instantly to events from connected devices such as motion sensors and fire detectors.

Point and click convenience

- Instant access to critical areas with point-and-click map-based video switching
- Pinpoint playback accuracy with timeline navigation
- Monitoring with embedded activity detection and camera maintenance content analysis
- Valuable data easily accessible with versatile video search capabilities
- One-stop configuration integrates camera PTZ and system setup
- Ease of operation with integrated graphical keyboard and joystick
- Extended multi-user support protects against unauthorized use
- Verifiable audit trails and user logs
- Two-way audio capability for monitoring functions and broadcast capability

Flexible setup and configuration is a hallmark of the VSC, thanks to its *ConfigPanel* module. This powerful tool provides sophisticated system administration in a single easy-to-use package. Designed to administer the entire video security network, *ConfigPanel* offers such functions as user access control, camera configuration, PTZ control, recording policies, Video Content Analysis (VCA), and encoder/decoder configuration.

Compatible with VisioWave IVP hardware, the VSC is finely-tuned to take full advantage of advanced technology that sets this product line in a class by itself. Whether used in conjunction with the 1- to 24-port Discovery family of encoders, or the high-density Evolution Series, the VSC brings flexibility and scalability to any video surveillance application.

Specifications

Minimum System Requirements	Win XP Pro compliant PC with Intel Pentium IV (3 GHz CPU), 512 MB RAM, min. 40 GB system HD, min., DVD/CD-R/RW, 10/100 Mb Ethernet NIC, graphic card 128 MB supporting DirectX 8.0 and higher, Windows XP Pro SP2
Desired System Requirements	Win XP Pro compliant PC with Intel Pentium IV (3 GHz CPU), 1024 MB RAM, min. 120 GB system HD, min. CD ROM, 10/100/1000 Mb Ethernet NIC, Either AGP or PCI Express graphic card 256 MB supporting DirectX 8.0 and higher, Windows XP Pro SP2
Compatible Digital Video Equipment	Discovery 300 Series, Discovery 2400 Series, Evolution HD Series

Software Development Kit unlocks the power behind the IVP



Familiar programming environment

- APIs provide familiar tools that take full advantage of the flexibility behind the intelligent video network
- Custom interfaces maximize operator efficiency
- Short learning curve and inspiration for innovative applications provided by an extensive library of sample source code for Object-oriented ActiveX-based APIs
- Full Unicode compatibility for multi-language support
- Runs on Windows® XP or Windows 2000

The VisioWave IVP SDK is a powerful collection of APIs (Application Programming Interfaces) that give software developers access to the functions of the intelligent video operating system. The APIs are based on ActiveX® technology and are compatible with virtually all development environments including C++, Visual.NET, JavaScript, Delphi, Visual Basic, and C++ Builder.

The SDK permits the development of custom GUIs geared specifically to any intelligent video application. It offers full control over audio/video playback, as well as system-wide fault monitoring and management, and provides the opportunity to create an efficient and effective end-user environment tailored to the needs of the facility.

The SDK also offers the opportunity to interface the intelligent video security system with other network domains such as access control, fire alarm, intrusion detection, and building management, as well as management systems typically found in airports, hospitals and schools.

The kit includes an extensive sample applications library, complete with source code, as well as a comprehensive developers' manual and access to training and technical support.

Plug-in Development Kit shares a wealth of third-party ingenuity

GE Security's plug-in architecture provides developers of third-party analytics with the tools they need to integrate powerful video processing applications into the intelligent video security network. Plug-in integration opens the door to custom interface design, system-wide configuration options, network management operations, and access to functions such as pre-and post-alarm actions, as well as visual and audible signals.

Robust operating system is the core of the IVP network

The VOS Video Operating System lies at the core of the intelligent security network. It provides the platform upon which all hardware and software communicates and interacts. It also acts as the primary interface between the security system and the global multiservice network. The VOS offers a robust and scalable environment for system management and services such as central configuration, video streaming, networked video recording, and integrated image processing. It provides a comprehensive and flexible network architecture that offers a solid and reliable foundation for even the most demanding intelligent video systems.



Ordering Information, VSC

Part Number	Cameras Supported	Clients
SS-SOFT-O-VSC-P9	9	1
SS-SOFT-O-VSC-P18	18	1
SS-SOFT-O-VSC-P36	36	1
SS-SOFT-O-VSC-P72	72	1
SS-SOFT-O-VSC-P144	144	1
SS-SOFT-O-VSC-P288	288	1
SS-SOFT-O-VSC-PNL	Unlimited	1
SS-SOFT-O-VSC-E18	18 (Extension)	1
SS-SOFT-O-VSC-E36	36 (Extension)	1
SS-SOFT-O-VSC-E72	72 (Extension)	1
SS-DISC-X-VSC-MC2		2
SS-DISC-X-VSC-MC3		3
SS-DISC-X-VSC-MC4		4
SS-DISC-X-VSC-MC5		5
SS-DISC-X-VSC-MC6		6
SS-DISC-X-VSC-MC7		7
SS-DISC-X-VSC-MC8		8
SS-DISC-X-VSC-MC9		9
SS-DISC-X-VSC-MC10		10

Ordering Information, SDK

Part Number
SS-SOFT-O-SDK-API

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