

# Version 3 Detailed Features List

## Video Insight Digital Video Management Systems

### Live Video

- View live video on the server, the network, or on the Internet using a web browser
- Support for up to 4 monitors per system viewing up to 128 cameras
- Up to 30 FPS (frames per second) per camera
- Quickly navigate between cameras from any server using standard windows explorer tree structure
- Support for analog NTSC or PAL and over 150 IP camera models
- Standard layouts include single camera full screen or multiple camera combinations
- Customizable layout buttons pull cameras from analog and IP cameras
- Create an unlimited number of custom layouts viewing up to 32 cameras from any server
- Cycle cameras and cycle layouts
  - o Spot Monitor supports cycling or multiplexed on standard composite output
  - o Spot Monitor can be manually cycled to the next camera via DIO input (Wall mounted button)
- Remove cameras from server menus to create hidden cameras
- Small and Large PTZ control tool bars fit any users
- Support for an unlimited number of PTZ presets and cycling through presets
- Support for automatic movement of PTZ back to "home" position
- Stopping and start PTZ cycles from Network or Web Clients
- Support for PTZ cycle schedules
- Unlimited image zoom
- Large groups of users can view live video simultaneously limited only by available bandwidth. Integrated support for Microsoft Load Balancing
- Popup window displays cameras with motion on the server, the network client, the web browser and video out monitors.
- Manage large numbers of cameras from multiple locations with Facility Maps
  - o Easy navigation using multi layered maps and floorplans.
  - o Live video via mouse over
  - o Camera direction indicator
  - o Motion indicator on Facility Map
  - o Facility map setup requires no programming
  - o Open groups of cameras from facility map with mouse click
  - o Drag and drop multiple snapshot images

into viewing pane

- User customized button bar can open doors or turn on lights with mouse click
- Motion indicator
- Motion Outline displays detected motion for the user
- View cameras in Full screen
- Hide all menus from users
- Privacy zones restrict live or recorded viewing from areas of camera view
- Mouse click saves current image
- Mouse click switches cameras between layout positions
- Support for any Windows resolution including 2560 x 1600
- Support for touch screen and onscreen keyboard
- Option to play sound on motion
- Support for Pocket PC
- Option to invert images (flip images)
- Web Client
  - o Requires no plug-in for standard operation
  - o Compatible with Mac or other non Windows operating systems
  - o Active-X plug-in option provides high speed image refresh
  - o View analog and IP cameras on the same screen
- High Speed Client Streaming
  - o In low bandwidth situations, stream low quality to the client while continuing to record high quality
  - o In local network situations, stream high quality live video and standard quality recording.

### Recorded Video

- Record always, on motion, on a schedule or on a trigger basis
- Motion activated recording supports an unlimited number of Motion Zones that each have unique sensitivity settings. View results in real time for easy setup.
  - o Label each Motion Zone to trigger actions
  - o Event log allows quick review of video associated with motion or alarm events
- Support for 4 compression options including Microsoft WMV and MPEG4
- Each camera is stored in individual AVI files
- View recorded video on the server, via the network, or on the internet using a web browser
- Intuitive play, pause, and rewind functionality
- Frame by frame or variable play back speeds
- Fast Forward across many files
- Multi-resolution support for IP cameras



- record both low and high resolution images simultaneously
- Record time-lapse – each camera can be independently adjusted to record as little as 1 image per day
- View recorded video via network drive mapping or via MPEG4 streaming over low speed connection.
- Easy navigation using standard windows explorer tree structure. Recorded video is organized in folders by day and then sorted by time.
- Image zooming
- One click writes recorded videos directly to a CD or DVD
- No limitation on the number of viewers that can simultaneously access a DVR on the network
- Frequently used functions displayed as icons on tool bar
- 30 second instant playback via mouse click on live image
- Video editing and clip management, including merging multiple files into one
- Burn clip directly to DVD
- Timeline search
- Object Search
- Thumbnail browse
- Export video clip within a specified time range
- Consolidated recorded playback. New iPlayer gives the user the ability to perform all play

- back options in one easy to use interface
- Synchronized playback from multiple cameras
  - o Perfect playback of recorded files synchronized for up to 16 cameras
  - o Visual histogram display showing motion on all selected cameras for a particular time period
- De-interlaced playback support
- POS integration and transaction search
- Option to delete video by number of days
- Recording Specifications**
- Records up to 480 frames per second over 32 cameras
- Works with NTSC or PAL analog cameras as well as 150 models of IP cameras
- Each camera can be configured to capture between up to 30 fps
- Adjustable brightness, contrast and color controls for each camera
- Pre and post motion recordings on a camera basis
- Camera resolution available from 320 X 240 to 720 X 480, D1
- Continuous, motion activated, scheduled or event based recording by camera
- Recording frame rates changes can be triggered by motion or alarm events
- Motion zones allow you to customize each camera's sensitivity to ensure that you record exactly the area desired

- Motion event labels
- Privacy Mask Protection
- Camera name, time and date stamp overlay
- Automatically manages files and disk space to ensure continuous recording
- AVI format is compatible with all major media players
- Event zones – example draw a square around a door and call the event “Door opens”. When motion is recorded in the zone, then a motion event is registered in the event log.
- Ability to start recording with mouse click

#### Audio

- Synchronized audio with video
- Up to 16 channels of audio per server and support for unlimited servers
- Listen to live audio from multiple cameras or a single camera
- Listen to live audio over Network or Internet connection
- Buffer audio in low speed environments
- Review recorded audio via Network Client

#### Automation Features

- Easy to use automation tool allows the system to take actions after an event. These events or triggers can be unique or a combination of events and can start multiple actions.
- Boolean functionality: multiple conditions can trigger one action; single conditions can trigger multiple actions; conditions can be set up as “and” conditions as well as “or” conditions.
  - o Triggers include any combination of: 16 alarm inputs, motion detection, schedules, Software Development Kit (SDK), TCP/IP inputs, Hot keys trigger recordings
  - o Actions include : Change camera settings, Cycle Spot Monitor, Digital output, Email customer message, Email AVI clip, Live Window popup, Email Motion information, Move PTZ, Change recording type, Record with Audio, Switch Layout, Switch Camera, Create Interview event
- Option to automatically stop live video after period to reduce CPU load
- Door Release button
- Email Notifications
  - o With attached video images on motion and alarm activation
  - o On operational interruption due to camera or server malfunction
  - o On recording storage exceeded
  - o On system errors
  - o On disabled recording
- Create custom Scenarios

#### Multi-location support

- View live and recorded video from multiple locations in a single display
- Video Insight’s Network Client allows you to

connect to an unlimited number of servers and view cameras from different servers on the same screen.

- Great frame rates with a standard DSL
- You control the quality and frame rates of streaming live video over your remote connection to meet your requirements
- Customizable layouts can include cameras from multiple locations
- Cycle through all of your cameras one at a time or in 2x2 or 3x3 grids
- Multi level facility maps make it easy to pick locations and facilities using a graphical representation
- No extra licensing cost per managed site
- Scalable – unlimited servers and cameras
- Health Monitor ensures all servers and cameras are operational
- Supports both analog and IP cameras
- Detailed information about each camera, including Phone numbers to call in case of event
- High speed streaming

#### Storage

- Supports external storage devices including servers, NAS, and SAN
- Dual Resolution Recording - Support for recording one resolution and transmitting a different
- Recordings from each camera can be stored on different devices
- By default will use all available disk space and overwrite the oldest files.
- Specify maximum days to store by camera
- Specify maximum file size for each camera
- Archive manager recompresses video, moves, and trims video, doubling storage capacity
- Delete files after specified number of days
- Compression Options are selectable by camera
- Multiple Compression Options: WMV, MJPEG, MPEG-4 , Video Insight MPEG 4 written especially for security video compression

#### Security

- Remove all Windows commands, including the Start button
- Option to start in full screen mode.
- Option to remove cameras from server
- Restrict users on a camera basis from live, recorded or PTZ control
- PTZ control user priority
- 5 User Levels
- Support for SSL
- Privacy Zones
- Support for groups of users
- Password protected shutdown
- Password protected user settings
- Comprehensive log of all changes to system
- Create clips with Watermarks
- Ability to block IP addresses from connecting remotely or to accept only certain IP addresses.

#### Remote Management

- Integrated camera setup and configuration – all camera configurations are done from one easy to use setup screen
- Configure remote system via unified setup screens
- VNC connectivity into all servers
- Manage all servers over the network
- Provides the ability to adjust bandwidth for each DVR

#### Technology

- PC based - Leverages your existing in house technical expertise
- Utilizes latest processor technology including Intel Quad Core
- Available in software or pre-configured Dell Servers
- Stores all video in standard AVI files but utilizes the latest compression methods. Recorded files can play in any standard media player without any conversion.
- Clients utilize Windows integrated file sharing for high speed playback
- Built for Windows XP and 2003 Server
- High speed WMV, H263 or MPEG4 based streaming to the Network Client. System is capable of usable frame refresh even over a dial up 56k modem.
- Dual Resolutions – by separating the recording resolution from the display resolution, the system can be configured to stream low quality live images over a bandwidth constrained pipe and record high quality images on the local storage.
- Developed with leading Microsoft .Net Technologies
- Most Compression Options: WMV, MJPEG , MPEG-4 Video Insight MPEG 4 written especially for security video compression
- Multi server environment (unlimited servers and cameras) with central monitoring
- SQL Based
  - o Video Insight stores settings and event log events in the MS SQL database
  - o Microsoft SQL Server is automatically installed during setup included with the product
  - o Multiple servers can share a single database
  - o The SQL server can be anywhere on the network
  - o Backup database can be setup on remote server
  - o Easy integration with self explanatory tables and field names
- IIS Load Balancing
- Easy integration with access control, POS, and other applications
- Support for Dynamic DNS

#### Accessory Products

- Archiver
  - o Copy recorded files from Video Insight Server to

another storage location on a scheduled daily basis after video is x number of days old

- o Recompress – On a scheduled basis re compress the original video into a much smaller file to increase storage capacity.
- o Trim – On a scheduled basis, delete frames from the original file.
- Health Monitor – Comprehensive remote monitoring of system status. Each Video Insight Server, on an customizable interval, can send an outbound message to the Health Monitor with operational statistics. The communication is only outbound from the server and will work behind firewalls without opening up ports.
  - o Monitoring options include: System status, Camera status, Recording status, No video has been detected, Low disk space
  - o Notifications include:
    - Customizable Levels of Warnings; warnings and error messages depend on the severity of the condition.
    - Quick dashboard view of the status of all servers and cameras.
  - o System runs as a Windows Service
  - o Access via the server or via the internet with a standard web browser
- Full Software Development Kit
- Standalone Watermark verification application
- Standalone player with frame by frame advance
- Advanced Database Backup, Management and Repair

#### Utility

- Enterprise Manager allows administrators with proper authorization to change users rights, camera and system settings from a central application.
- Offsite storage options available
  - o Send recordings to offsite storage over a standard DSL
  - o Protects recordings from damage and tampering
  - o Secure site with hot backups
  - o Recordings can be archived indefinitely to satisfy regulatory requirements
  - o Customers can login and view recordings from anywhere on the internet
- Point of sale integration
  - o Associate camera with POS System
  - o Search allows the user to search transaction history by certain predefined searches such as All Events, Transactions greater than \$50, etc. Click on any line and the associated video for that transaction will be played. You can also restrict the search by camera and by Event times
  - o Advanced Search provides a mechanism for searching transactions for matching text.
  - o The POS iPlayer will allow you to highlight certain types of events. Highlights can be customized by key words and by individual name to quickly view times and associated video.