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VERINT
POWERING ACTIONABLE INTELLIGENCE™



Loronix Video Manager Version 4.5

Verint's Loronix Video Manager™ helps you more efficiently manage your video surveillance operations, automating time-consuming manual processes for improved response time and more effective allocation of personnel and resources.

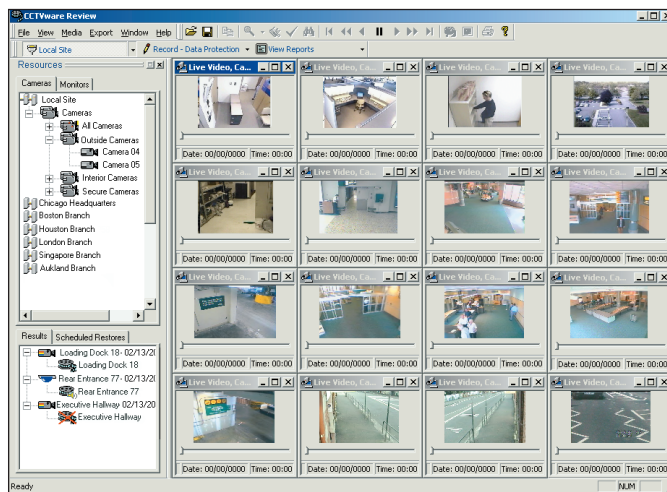
With Loronix Video Manager, you can view live and recorded video and manage your entire video surveillance operation from a single LAN- or WAN-enabled workstation or, with Verint's WebReview™, using just your Web browser and Internet connection, anytime and from anywhere.

This powerful software suite interfaces with your access controls, alarm, and business management systems, issuing timely alerts about significant events. And, Loronix Video Manager delivers this actionable intelligence in real time, pushing video images and related data directly to the people who need to see them – even to security personnel on patrol – according to alarm response and escalation procedures that you define. Key features of the Loronix Video Manager solution include:

Review

The review module allows users to view live and recorded video via an intuitive, easy-to-use graphical interface.

- **Multi-camera View:** Simultaneously view up to 16 camera views from multiple recorders and sites. Users can choose free, single, 2x2, 3x3, and 4x4 modes.
- **Synchronised Review** (shown below): Review video recorded from up to 16 cameras simultaneously, synchronised by time.
- **Multi-field Query:** Video query by camera, date, time, site or any combination of these criteria.
- **Site Manager:** Assists in the administration and monitoring of large digital video networks operating in multiple locations. Allows users to simultaneously view up to 16 camera views from any IP-connected Verint Loronix recorder, anywhere in the world; log on to remote sites, play back recorded video or monitor live video and configure remote site databases.
- **Playback Controls:** Review video in single frame increments, multiple frame increments or 1/2x, 1x, and 2x speed; also, in reverse play and looping modes.
- **Export Video:** Export video to an analogue monitor, an analogue VCR, or to a file that can be saved to a CD-RW.
- **Reports:** Embed or attach video snapshots or clips directly into reports and export into commonly used word processing software.
- **Audit Trails:** Track all users' interactions with components including video viewing, camera access, and administrator functions. Audit trail reports can be sorted by user, time, or application accessed and can be exported to a commonly used word processing format.



Simultaneously monitor up to 16 camera views.

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- **Activity Scan:** Detect and display activity in recorded video quickly and easily; examines the frames of a video segment and detects changes from image to image. As the scan progresses, thumbnail images of frames containing activity will appear in the Activity Scan window. You can refine the scanning process by defining a field of any shape, changing the block size and adjusting sensitivity levels.
- **Video Authentication:** Authenticates digital video and produces a digital 'fingerprint'; this digital fingerprint can be compared to the fingerprint created when the recorder originally captured the video to determine if the video has been altered.
- **Pan-Tilt-Zoom Camera Control:** Control Pan, Tilt and Zoom functions from a PC workstation. PTZ control works with a wide variety of analogue video matrix switches, code generators and PTZ cameras.
- **Video Matrix Integration:** Interface to a wide variety of analogue video matrix switches.
- **Image Tool Kit:** Modify still images utilising advanced image enhancement tools such as edge detection, contrast / brightness equalisation, sharpen, soften and despeckle; enables the addition of time and date stamps and text annotations to still images.

System Monitoring

System monitoring helps improve productivity by enabling efficient monitoring of the entire digital video network from a single workstation.

- **Status Indicators:** Red, yellow or green icons indicate the functional status of each component in the system.
- **System Alerts:** Displays all active alerts, errors and other status messages. Alert severities are user-configurable.
- **System Alerts History:** Provides a list of past alerts for user review and/or reports.
- **HTML-based Status Pages:** Each component of the system can display a status page that provides essential information about its operations.
- **Network Notification:** Provides notification of system monitoring events such as disk failure, video loss, etc.
- **Email Notification:** Automatically emails a notification of any network notification events.
- **Automatic Escalation:** Administrator can define auto-escalation levels and procedures, including three levels of escalation and escalation times.
- **Virtual Network Computing:** Administrator can remotely access and control any recorders or servers within the system for troubleshooting and problem resolution.

Alarm Review

Alarm Review is an efficient surveillance application that allows you to instantly view live alarm events, retrieve stored alarm video, and create customized reports – all from a single screen. A variety of devices can generate alarm signals to the Loronix Video Manager including access control systems, open door sensors and activity detection. Each alarm event is recorded in the database and an appropriate response is generated, as defined by the system administrator.

- **Real Time Alarm Monitoring:** Alerts users to alarm situations such as external contact closure, motion, and access control inputs.
- **Automatic Video Call Up, On Alarm:** Displays alarm video including user-defined pre- and post-video.
- **Alarm History:** Surveys all past alarm events stored in the database.
- **Priority Alarm Configuration:** Preset the priority of alarm events by assigning colour, sound, or user-defined messages.
- **PTZ Salvo:** Move PTZ cameras to pre-set locations upon an alarm event.
- **Groups of Cameras on Alarm:** Display user-defined groups of cameras, automatically and upon alarm.
- **Multiple Alarm Review:** View live and recorded video from multiple alarms and/or sites simultaneously.
- **Voice alerts:** Alarms can be configured to deliver voice and visual alerts upon an alarm.

Administrator

The Administrator module enables management of the entire digital video network from a single workstation, including the setup and configuration of all sites, cameras, and recorders.

Administrator also includes tools for:

- **Camera Naming and Grouping:** Create groups and name cameras to allow for faster access; review video from multiple cameras simultaneously.
- **Recorder Setup and Configuration:** Setup and configure cameras, schedules, frame rates, priorities, signal loss detection, bit rate and thresholds.
- **User Permissions:** Setup user permissions based upon Microsoft Windows and Loronix Video Manager security policies. Restrict user access to cameras, recorders or sites.
- **Storage Management:** Configure and control storage options, including retention time and event recording.
- **Activity Detection:** Setup user-defined detection areas for activity alarms on any camera in your Verint network.
- **Alarm Management:** Setup alarm responses and associate each alarm with specific cameras or groups of cameras.

Additional Features

Support for Standard Commercial Off-The-Shelf Servers

The video storage and management system is a software-only client-server application that can be installed on most preferred high availability servers and workstations.

Integration to SmartSight® Digital Video Servers

- ✓ MPEG-4-based video encoding at 25 fps for high-quality video at low data rates to minimise video storage requirements.
- ✓ Video is digitised at the camera location, or in distributed locations, allowing the use of a single cabling architecture for both the corporate Local Area Network (LAN) and CCTV System.

Wireless Capabilities

- ✓ Cost-effective wireless extension of traditional CCTV systems or migration of analogue CCTV cameras to IP networks.
- ✓ End-to-end secure wireless link using AES encryption.
- ✓ Auto sensing RS-232/422/485 serial port for transparent connectivity to motorised domes, PTZ cameras, and other asynchronous serial devices.
- ✓ The Verint SmartSight SPCF™ protocol resolves the "hidden node," quality of service, and other security problems often found when using conventional 802.11 wireless networking products.

