

Ocularis™ ES - Specifications Sheet

Version 2.0.2, November 2011

For full list of features, see the Ocularis Architecture & Engineering (A&E) document, available by request.

General

Ocularis is an IP-video surveillance and security platform which includes a full-fledged VMS, combined with comprehensive PSIM functionality. It provides:

- Integration and coordination of integrated physical security, content analytic and other detection systems;
- Full VMS functionality with centralized management of cameras, connected devices, recording servers and redundant servers, at multiple sites.
- Centralized event, end-user rights and video recording and distribution management.

The Ocularis Platform is offered in four feature sets – PS, IS, ES and ES – to meet the needs of organizations of all sizes and types.

The Ocularis ES Feature Set was designed for large distributed organizations with extended command and control needs. Ocularis ES provides centralized recording server management and recording server redundancy, multicasting capabilities, as well as compatibility with the VideoWall and OpenSight add-ons, which allow the control of video walls at multiple command and control centers, and incorporating camera streams from other Ocularis installations.

Major System Components

Ocularis is a unified, modular software platform that consists of a number of components:

- 1. **Ocularis Base**: Provides system-wide management, user access, shared event management, alarm and event correlation, video access, and distribution rights.
- Ocularis Recorder Component (RC): provides video recording, storage management, video delivery to users and camera management.
- Ocularis Client: Access to video, management of alerts and shared event handling is done through the unified Video Client software, for desktop and control room video wall environments.
- 4. Add-Ons and Integrated Applications including:
 - Video Wall management
 - Ocularis OpenSight
 - Integrated 3rd-party physical security solutions (Video content analytics, video synopsis, access control, radiation detection, contact closure, among others)

System Highlights

Full-Fledged VMS with Physical Security Information Management (PSIM) Functionality

Ocularis manages video and event data received from cameras connected to multiple recording servers, as well as from physical security, content analytic, environmental detection, transaction and other enterprise systems.

Designed for Integration

Ocularis allows the integration of a host of add-on components via integration tools including Data Link Integration events, API commands, Contact Closure and more. An optional Software Development Kit (SDK) enables integration of 3rd-party components.

• Open-Architecture, Non-Proprietary Technology

Ocularis runs on off-the-shelf PC hardware; and supports all leading manufacturers' cameras and devices (over 900 models) as well as all industry-standard compression formats (MPEG4, MJPEG, H.263 and H.264).

Per-Camera Configuration of Video Streaming, Recording and Archiving Parameters

Optimized system resources is enabled through percamera configuration for compression level/format, image resolution, bandwidth, framerate, conditional recording, retention time, archiving frequency, archiving location and more.

Centralized Recording System Management

Ocularis ES provides centralized system management that dramatically reduces the complexity of managing edge devices, hardware, networking and user rights. All recording servers, redundant recording servers, cameras and connected devices, are managed from a single administration application, including configuration of entire device groups connected to multiple recorders, without the need to access each recording server individually.

• Flexible storage allocation

Storage, based on either size or retention period, is allocated per camera or camera group, with prioritization of important cameras. Video can be stored on local or network drives, using a database structure that eliminates the distinction between 'live recording' and 'archived' video.

Flexible rule-based management

Camera definitions, output actions and storage location can dynamically adjust based on schedule (multiple time profiles) or on-event via an MS Outlook-style administration interface. Also enabled

is simultaneous, and Rule Validation for detecting faulty or contradicting rules.

· Full automatic failover capability:

Single or multiple failover servers can be configured to automatically activate in the event of a recording server failure, with no gap or data loss.

Flexible storage allocation

Unlimited storage can be assigned to any connected device, at any storage device.

Multi-stage archiving

Ocularis ES allows for multiple archiving stages to optimize storage utilization. Each stage can be assigned a different retention time, grooming (reduction of framerate to reduce volume) and location.

· Support for edge (on-camera) storage

Cameras with on-board storage capabilities can function as failover devices to ensure uninterrupted video recording in the event of network or server failure.

· Support for Multicasting

Ocularis ES multicasting allows sending a single video stream to multiple users, while optimizing server load and bandwidth.

Central Management for Alerting, Shared Event Handling, Client Asset and User Authorization Data

All recording servers and Ocularis Client users are managed by the Ocularis Base, which coordinates all event and alert handling, manages users' rights to specific cameras and functions system wide (Active Directory supported), and distributes all shared assets.

Highly Intuitive Unified Video Client

Ocularis Client offers a user-friendly operator interface for both desktop and control room videowall environments, with only minutes of training required for full proficiency.

Complete Video Wall management

Utilizing Ocularis Client's map-based navigation, the Ocularis VideoWall add-on allows sending cameras and camera groups to any remote or local monitor, eliminating the need for any video matrix hardware.

• Live Monitoring with Instantaneous Investigation

While monitoring live video feeds, users can perform basic investigation on individual cameras – playback, digital PTZ and optical PTZ (for PTZ cameras) - without the need to switch to a dedicated investigation mode.

• Multiple Investigation Tools

Ocularis Client's investigation tools, include the Kinetic Motion Timeline, multi-parameter motion detection, the Time Slicer and the Motion Slicer, as well as the optional 3rd-party-provided

VideoSynopsis and Video Content Analytics addons.

Shared Event Handling

Recorded events are handled simultaneously by multiple operators, bookmarked and exported as evidence in multiple formats, all within minutes.

Ocularis OpenSight

An add-on to Ocularis that lets users consolidate and share information from video surveillance and other security systems that are outside their own system.

Detailed Features and Functionality

Ocularis Base

The Ocularis Base Application manages the flow of event, user and system status data from the various system components.

Event Management

All events within the Ocularis platform, as well as messages received from external devices and systems, are managed through the Ocularis Base administrator. These include camera connected I/O messages; motion detection events; camera status events and others.

• Composite Events ('Event Fusion')

Composite Events are created by linking two camera events or alerts, configured by sequence order, time interval and logical conditioning (e.g. 'If Door A opens, but no motion detection on Camera N, within 15 seconds'). Composite Events can be fused with other events to create complex detection scenarios, and assigned priority for push video and handling by Ocularis Client operators.

• Camera Licensing and Activation Management

Ocularis camera licenses can be assigned to individual cameras connected to multiple recording servers. This allows cameras to be enabled or disabled on the fly, without reimporting the recording component.

Automatic Push Video Alerting (Blank Screen Monitoring)

Upon event, a push-video alert of the camera that triggered the alert, or any other camera, can be sent to users running the Ocularis Client

application. In addition, the alert can be configured to trigger alarms or send notifications to users.

Management of Users, User Groups and Authorizations

Users are assigned to Active Directory-supported authorization groups, granting users rights for logoff or minimize, accessing cameras, operating specific camera and video wall functions (including PTZ controls and presets, accessing recorded video and initiating recording for specific cameras).

Schedule-Based Distribution of Events to Users

Multiple activity ranges for each day of the week, as well as for overriding holidays, are configured through a simple GUI.

Camera Array Views for Video Client User

By logging in to the Ocularis Base, users gain access to Views – arrays of different dimension and pane size combination, containing camera streams, hotspots, carousels, web pages and images, and push-video panes. View panes can be configured for image resolution, framerate, carousel dwell time, etc.

Repository for Shared Assets System-Wide

Shared asset management, for video wall maps and icons and events tagging/classification tables.

RC-E Recorder

- Unlimited scalability: no limit on number of RC-E recording servers, and no software-imposed limits on number of cameras per recording server.
- Central Management: All recording servers and connected devices are centrally managed by the RC-E Management Server, for setup and configuration of cameras and I/O devices, camera event settings, archive settings, scheduling, and soft buttons for manually triggered events. All configuration data is stored in a central SQL database.
- User Authentication: Via MS Active Directory user accounts and groups/Windows accounts; user administration via Ocularis ES Base.
- Push software upgrades to remote recorders: eliminates the need to update each recorder locally.

- Flexible rule-based management: camera definitions, output actions and storage location can dynamically adjust based on schedule (multiple time profiles) or on-event via an MS Outlook-style administration interface. The RC-E rules wizard provides rule validation for detecting faulty or contradicting rules.
- Simultaneous configuration of entire device groups: cameras and devices connected to multiple recorders
 can be configured directly from the RC-E administration application, eliminating the need to log in to each
 recording server.
- Simple bulk device connection: multiple cameras can be added simply by assigning an IP range (RC-E stores each manufacturer's default username & password.)
- Full automatic failover capability: single or multiple failover servers can be configured to automatically activate in the event of a recording server failure, with no gap or data loss.
- Recording Settings: Individual cameras can be configured for recording on motion, continuous recording, or
 either based by schedule; and for pre- and post-recording (buffer) on motion/event. Optional speed-up recording
 on event.
- PTZ Preset Settings: 50 presets per PTZ camera, controllable from each camera's view pane in Ocularis Client.
- Audio: Two way audio (from camera/IP device-connected microphones and to camera/IP device-connected PA system); audio from cameras is recorded and included in export of evidence (as AVI file).
- Flexible storage allocation
- Unlimited storage can be assigned to any connected device, at any storage device. Video can be stored on local
 or network drives using a database structure that eliminates the distinction between 'live' recording and 'archived'
 video.

Multi-stage archiving

Ocularis ES allows for multiple archiving stages to optimize storage utilization. Each stage can be assigned a different retention time, grooming (reduction of framerate to reduce volume), encryption and location.

Support for edge (on-camera) storage

Cameras with on-board storage capabilities can function as failover devices to ensure uninterrupted video recording in the event of network or server failure.

- **Detailed auditing tools:** all management operations, including system configurations, event definitions, rules and alerts, are logged at a central SQL database, with local offline log caching.
- Support for both Multicast and Unicast
 - Multicasting allows many Ocularis Client users to view a single video feed, while optimizing server load and bandwidth; enabled in all compression formats, including MJPEG & H.264. (Multicasting must be supported by the network infrastructure.)
 - Unicast sends a unique stream, on demand and upon authorization, allowing the user to take control of the video stream. Multiple unicast streams, replicated by the server, can be sent to multiple clients, rather than limited to a single user.
- Automatic detection, model identification and MAC address registration of connected devices: RC-E will
 scan the entire camera network or IP address range to identify new or modified cameras and encoders, with a
 clear graphical representation, including thumbnail view of the camera stream, of all edge devices at each
 recording server.
- SNMP support: enables receiving system and device health data.
- **Multi/dual-stream support**: separate video streams, at different resolution, video format and framerate settings, can be assigned for live monitoring and recording (e.g. MJPEG for live, MPEG4 for recording), for maximizing CPU, bandwidth and storage resources.
- Support for IPv4 and IPv6 (128-bit addressing), as well as DNS and NAT (Network Address Translation.)

- Single or Multi-Network support: allows managing cameras, recorders and clients on the same or on separate
 networks; increases security and improves bandwidth management by separating camera network from the client
 network.
- Networking: Support for Multi-Network operation; Port Forwarding (for access from outside a NAT firewall); and SNMP (for camera status and camera event alerting).
- **Network Topology**: Support for segmented (VLAN or dedicated network) or shared networks, for physical network separation between the camera and the recording servers and video clients.
- Outside Network Access: the RC-E administrator is able to allow/prevent access from outside the local IP address range. The configuration settings allows selecting an Outside IP Address, Outside IP Port, Local IP Ranges, Maximum Number of Clients.
- Virtualization: Support for VMware and MS Virtual PC®
- Background Operation: RC-E runs as a Windows® service, with no need for user login. Service can be stopped/started, and provides system status and logging information.

Ocularis Client and Ocularis Viewer

Ocularis Client

- Unified Client for Ocularis: Ocularis Client is the main video client for all OnSSI Ocularis solutions.
- Unlimited Concurrent Users: No limit on the number of concurrent client users, and no incremental cost for additional Ocularis Clients.
- User Authentication: Basic or Windows Active Directory-supported
- Touchscreen-Enabled, Intuitive Interface: Ocularis Client's intuitive, touchscreen-enabled GUI reacts to the user's actions, presenting only the controls and tools required by the current mode of operation.
- Multiple Screen Support: up to eight monitors on a single Ocularis Client workstation or video wall.
- Mixed Content Views: Users can select among unlimited private or administrator-configured pane arrays of
 different sizes (up to 8x8 panes), consisted of camera streams, carousels, hotspots, web browser/static
 image/flash animation (requires file support on client machine), and panes for receiving automatic (on-event) and
 manual (peer-to-peer) push-video alerts.
- · Personalized display attributes:
 - Display mode (windowed or full screen)
 - Select active local monitors
 - Set framerate for peripheral cameras (other than the selected camera)
 - Set interface language (English, French, Spanish, Portuguese, Arabic and Italian)
 - Manage video streaming attributes for MPEG4/H.264 cameras.
 - Set joystick (physical and virtual) sensitivity to eliminate unintentional joystick positioning data from being sent to the client.
- Pane View/Full Screen Toggle: Any view pane can be toggled between pane and full-screen viewing modes.
- Live Monitoring Assisted by Instantaneous Investigation: A-synchronous live monitoring, with per-camera controls for:
 - o Playback
 - o Pause/live
 - Digital PTZ
 - Optical PTZ and PTZ presets (for PTZ cameras)

- Dedicated parsing controls for cameras equipped with 360-degree (Panomorphic) lens.
- **Digital PTZ**: Applicable in all viewing modes, and assisted by PIP (Picture-in-Picture) for easy orientation. Control methods include draw rectangle, mouse wheel zoom in/out, and dragging selected PTZ region in PIP window.
- Unified Optical PTZ Control: All PTZ cameras are manipulated using the same controls, regardless of make/model. Controls include:
 - Mouse wheel (zoom in/out)
 - Variable zoom ribbon
 - Zoom in/out buttons
 - Click-to-center
 - Click-draw zoom rectangle
 - PTZ preset list (unlimited presets)
 - Virtual joystick
 - Physical joystick.
- PTZ Prioritization: Users, within user groups, are assigned priority levels for controlling PTZ cameras.
- 360-Degree Lens Controls: Special controls are provided for parsing views from fixed cameras equipped with 360-degree (Panomorphic) lens. The parsed view emulates a PTZ camera, with simulated pan, tilt and zoom. 360-degree parsing is available for both wall or ceiling mounted cameras, in single or quad view within a single camera pane, with playback and digital zoom controls. Settings for Panomorphic lens-equipped cameras are done on the Ocularis Administer.
- Camera Offline Notification: On event that a camera goes offline (lost communication or other camera failure), a visual alert in the form of a prominent red 'X' will immediately appear, overlaying the last received frame.
- Change Cameras on the Fly: In all viewing modes, the current camera can be instantly replaced by selecting another camera from a drop-down list. The camera list is equipped with a quick-access filter, which displays only the camera names that include the entered alphanumeric combination.
- Smart Carousel Monitoring: Carousel panes, displaying cameras in a predefined sequence, include controls for pause/restart rotation, next and previous camera.
- Create Carousels on the Fly: any camera pane can be turned into a carousel by adding cameras from the camera list.
- Manual Push-Video Alerting: users are able to send a live push-video alert to other Ocularis Client users (selectable from a drop-down list). Pushed video alerts can be investigated using playback, digital PTZ and Optical PTZ controls.
- Copy Current Camera View to Clipboard: users are able to copy live or recorded camera views, for pasting in other documents or editing using image editing software.
- Live and Playback Audio: Audio is available in both live and playback mode
- Start Recording Control: Users are able to initiate the recording of a live-monitored camera, for the time period specified in the recorder application.
- Toggle PTZ Patrolling: Users are able to toggle a PTZ camera's patrolling directly from the Ocularis Client application.
- Switch Audio Streams: Audio streams from camera-connected microphones can be switched on and off, selectable from a menu list.
- Activate Outputs: I/O devices can be activated directly from Ocularis Client, including visual and audio alarms, contact closure, etc.
- Investigation and Access to Events: Multiple tools are provided for quickly accessing and investigating video:

- Synchronous Camera View: Current live monitoring view will carry upon transitioning to Browse mode, with synchronous playback, skip to next/previous event and skip to next/previous event sequence.
- Go to Time/Date: Through 'odometer'-style control
- Kinetic Motion Timeline: scalable horizontal timeline, with kinetic variability (responding to the momentum and speed of the user's 'swiping' movement). Allows reviewing extended periods of recorded video in a short time, with color indicators for recorded video and detected motion.
- Highly Configurable Motion Detection: calibrated for percentage of changed pixels within the motion detection zone; sensitivity and detection sampling time interval.
- o 'Time Slicer' Tool Set: The Time Slicer tool set auto-generates thumbnails, for rapid drill-down to the moment of an event, based on time interval, motion detection, camera alerts and alert sequences. All Time Slicer tool enable the application of digital PTZ to all slices, by drawing a region in the Timeslicer main pane.
- Shared Event Handling: All events generated within the Ocularis system, or detected by external/add-on devices, are entered in a dynamically-updated, shared among all authorized users. Users are able to access, investigate and handle events directly from a dedicated event handling interface, with an on-map indicator of the camera that triggered the event and dual video panes displaying the recorded event and a live stream. Handled events may be accessed by the administrator for continued handling.
 - Users are able to set the maximum number of events in displayed in the events page based on age, number and frequency, as configured per event, per camera.
 - Easy batch handling of events by age (24 hrs or older), last number of events or all.
- Event Bookmarking and Export of Evidence:
 - Segments of video for bookmarking and exported are graphically selected on the Kinetic Motion Timeline.
 - Bookmarks are tagged, classified and commented by users, and copied into a Bookmark database.
 Bookmarked events are presented along all event information and thumbnail of the incident. Users may choose to include audio in the bookmarked video on a per-camera basis
 - o Video evidence is exported as:
 - annotated still image report
 - multiple still frames
 - audio-included AVI file (using RC-E only) with annotated preamble
 - court-admissible, audio-included (selectable per camera) multi-camera video database package, which can be played back directly from the export media using the Ocularis Viewer (see below).
- Map-based Navigation and Video Wall Management: cameras and entire views are accessible through a mapbased interface, used also for Video Wall management (requires optional Ocularis VideoWall add-on).
 - Multiple maps, with hyperlinked icons to other maps, cameras and views. Map images are scalable and movable.
 - On-map live preview windows of cameras and camera groups, with full playback, digital PTZ and optical PTZ (where available) controls.
 - Cameras, as well as entire views (consisted of live cameras, push video alert panes, automatic push video alert panes and HTML/graphics) are pushed to local displays or remote video wall (optional add-on) displays by simple drag-and-drop. Cameras displayed on video walls are located on their respective maps via a Locator control. Note that Hotspot panes (used for displaying a camera in full resolution and framerate) are not supported.
 - Views sent to remote video walls are controlled for playback, digital PTZ and optical PTZ, via a dedicated control panel.

- **Private View Configuration**: users are able to configure private views, from within the client, combining camera streams, carousels, push video alerts (automatic and manual), hotspots and webpage/image panes.
- **Keyboard Shortcuts for commonly used controls**: Users can configure keyboard shortcuts for a large number of commonly used controls, including pan, tilt and zoom; go to presets; next/previous image; playback in variable speeds; toggle between minimized and maximized view pane; minimize application and more.
- Memory usage indicator: provides information for memory and graphics card resources usage.

Ocularis Viewer

 The Ocularis Viewer is a standalone application that allows viewing multi-camera video databases, without the need for an installed video client application. The Viewer is uploaded to, and runs directly from, the portable media used for exporting video evidence.

Video database export is used typically where an AVI file is not acceptable as evidence, or for exporting multiple camera streams within the same file.

- Features of the Video Database Viewer include:
 - Comprehensive set of playback controls: play, frame-by-frame, skip to end/beginning of video or go to specific time stamp. Playback is synchronous for all cameras displayed.
 - Scalable timeline, color coded for motion activity and areas of recorded video. The timeline can be dragged to control multi-camera synchronous playback.
 - o Digital PTZ (pan, tilt & zoom).
 - Export video of selected camera as AVI file, optionally preceded by a preamble including video and camera data as well as user's annotations.
 - o Export still-image (.jpg) annotated incident report, or multiple-frame still-image folder.
 - Video quality can be set to Low, Medium or High to optimize performance.

Ocularis VideoWall (optional)

- Allows sending video to video wall monitors and remote displays anywhere on the network, all from the Ocularis Client's intuitive, map-based controller interface
- Instantly push cameras and camera groups to any display on the network
- Accommodates any number of cameras, displays and simultaneous operators at multiple sites.
- Eliminates the need for analog multiplexing hardware
- Ideal for command and control centers, central station and remote alarm monitoring operations.

Ocularis OpenSight (optional)

- OpenSight, an add-on to the Ocularis platform, allows organizations to consolidate video surveillance and other data from multiple Ocularis installations into their own Ocularis system with a single logon. This provides a complete view of multiple entities' security systems within a city or a region.
- Typically, organizations and agencies will allow access to their OnSSI systems to law enforcement and emergency services in the same locale, increasing overall security and improving responsiveness to emergency situations.
- OpenSight allows for specific privileges and access rights to be assigned to users for specific cameras, alarms
 and events. For example, users can be assigned the right to view but not control PTZ cameras in order to not
 interfere with the host system's operators.
- The OpenSight add-on is licensed for 10-camera bundles, per Ocularis Base installation (e.g. a police precinct must have its own Ocularis license in order incorporate cameras from a school into its video system).
- OpenSight-accessed cameras are viewed using Ocularis Client. No special or additional hardware is required for OpenSight. Note that the OpenSight license does not extend to mobile (portable) access.

Video Content Analytics

- · Optional; provided by 3rd-party vendor
- Integrated video content analytics provide automated detection of targeted movements and behaviors by people and vehicles. Analytics-generated alerts can be pushed automatically to users' Video Clients, together with a graphical metadata overlay indicating the object or movement that triggered the event.
- Multiple detectors, for a variety of behaviors, can be applied to a single camera.
- Compatible with on-edge processing, providing the advantage of processing raw (pre-compression) video data.
- PTZ Analytics functionality, including PTZ tracking and motion detection on PTZ presets
- Detection, alerting and reporting modules for a variety of human & vehicular behaviors, including movement in zone, line crossing, crowding, tailgating, loitering, grouping, object counting, stickiness, moving water vessel, object left behind, stopped vehicle, road obstacle and asset protection.

Hardware Requirements for Ocularis v2.0.2 Components

Ocularis Base Server

- CPU: Intel Xeon (Dual Core or better recommended)
- RAM: 4 GB
- Hard Drive: 500 GB or more for large systems utilizing extensive Video DB Bookmarking
- Operating System: Microsoft® Windows® Server 2003/2008 (32 or 64-bit). Note that 32bit OS support will be discontinued in a future release.
- Software: Microsoft .NET 3.5 SP1 Framework; IIS 6.0 or newer

Ocularis Administration Client

- CPU: Intel Core2 Duo (Similar or better)
- RAM: Minimum 4 GB
- Operating System: Microsoft® Windows® XP Professional SP3, Windows Vista Business, Ultimate or Windows 7 Professional or Ultimate (32 or 64-bit)
- Graphics Adapter: Adapter: PCI-Express, 128 MB RAM, Direct 3D supported

Note: the Ocularis Administration Client does not require a dedicated PC.

RC-E Recording Server (including redundant recorder)

- CPU: Dual Core Intel Xeon (Quad Core recommended)
- RAM Minimum 4 GB
- Hard Disk Space: Minimum 100 GB free (depends on number of servers, cameras, rules, and logging settings); refer to the OnSSI Hardware Calculator.
- Operating System: Windows Server 2003 (32 & 64 Bit), or Windows Server 2008 (32 & 64 Bit).
- Software: Microsoft .NET 3.5 SP1 Framework; IIS 6.0 or newer

RC-E Management Server

- CPU Intel Xeon (Dual Core or better recommended)
- RAM of 4 GB
- Network Ethernet (1 Gbit recommended)
- Operating System Windows Server 2003 (32 & 64 Bit), or Windows Server 2008 (32 & 64 Bit).
- Software Microsoft .NET 3.5 Framework SP1, and Internet Information Services (IIS) 6.0, or newer.

RC-E Administration Client

- CPU Intel Core2 Duo (Similar or better)
- RAM Minimum of 2 GB
- Operating System Windows Vista Business, Ultimate, Enterprise (32 & 64 Bit), or
- Windows 7 Professional, Ultimate or Enterprise (32 & 64 Bit)
- Software Microsoft .NET 2.0 Framework and DirectX 9.0 or ne

Ocularis Client

- CPU: Intel Core2 Duo (Similar or better)
- RAM: Minimum 4 GB
- Operating System: Windows XP Professional SP3, or Windows Vista Business, Ultimate, Enterprise (32 & 64 Bit), or Windows 7 Professional, Ultimate or Enterprise (32 & 64 Bit)
- Graphics adapter: PCI-Express, minimum 256 MB RAM, Direct 3D supported. Guidelines for Video RAM Requirements:

• 20 simultaneous Video Channels: 512 MB

35 simultaneous Video Channels: 1 GB

50 simultaneous Video Channels: 1.5 GB

64 simultaneous Video Channels: 2 GB

Video RAM requirements are regardless of number of attached monitors. Additional factors may affect video RAM requirements, including megapixel cameras, compression format, as well as video card and other system hardware specifications

Ocularis Viewer

- CPU: Intel® Core 2 Quad CPU 2.8 GHz
- RAM: Minimum 2 GB
- Operating System: Microsoft® Windows® XP Professional SP2 or Vista, both 32 bit
- Graphics Adapter

Note: For demonstration purposes or trial systems (supporting less than 8 cameras), all software components can be run on one workstation provided the appropriate hardware specifications are met.

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