Ocularis is OnSSI’s innovative and cost-effective open platform Video Management Software (VMS) designed to enhance your security while simplifying your daily workload. From convenience stores to citywide deployments and everything in between, Ocularis can scale up to accommodate an infinite number of cameras to match your growing system needs.

Ocularis lets you record both analog video and video from newly integrated IP network cameras, and can become your Physical Security Information Management (PSIM) platform, putting you in control of advanced tools and enhanced integrations like smart motion detection, access control, biometrics, and behavior analytics.

The Ocularis platform is offered in three models – Professional, Enterprise and Ultimate – to meet the needs of organizations of all sizes and types.

The Ocularis Ultimate model is designed for large IT-centric organizations with extended command and control needs. Ocularis Ultimate provides centralized recording server management and recording server fail over, multicasting capabilities, edge recording, as well as compatibility with the VideoWall and OpenSight™ add-ons, which allow for collaborative control of video walls at multiple command and control centers, and incorporating camera streams from other Ocularis installations.

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

**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. A free Software Development Kit (SDK) is also available for 3rd-party manufacturers to integrate their systems into Ocularis.

**OPEN-ARCHITECTURE NON-PROPRIETARY TECHNOLOGY**

Ocularis runs on non-proprietary, off-the-shelf PC hardware and supports leading manufacturers’ cameras and devices. Support for all industry-standard compression formats (MPEG-4, MJPEG, H.264, H.265 and MxPEG) and the ONVIF and ONVIF Profile S standards are built-in. Ocularis Base and Ocularis Recorders are also fully supported in virtual environments such as VMWare and Microsoft Hyper-V.

**OCULARIS MIX & MATCH**

With Ocularis, users can use multiple different recorders under the same Base, allowing them to tailor their system to meet their exact needs. Legacy Ocularis systems can be easily expanded using Mix & Match without having to upgrade the entire system.

**DYNAMIC DATA MANAGEMENT**

Ocularis Ultimate features efficient and dynamic data management with automatic load balancing across multiple storage volumes with no archiving requirements.

**SYSTEM HEALTH MONITORING**

Ocularis provides real time and pertinent information to system administrators including disk utilization, camera status, support for SNMP monitoring as well as email and SMS alerts upon errors and other issues.

**MODERN 64-BIT VMS**

Ocularis has been updated with all 64-bit components for efficient use of computer and server resources.

**FLEXIBLE RECORDING OPTIONS**

Ocularis features both Standard (continuous) and Alarm Recording, based on motion detection or other alarm input. Each recording mode can be configured with different retention policies ensuring that all critical video data is captured and saved. Alarm Recording can also be configured to use a secondary stream for added recording flexibility and reduction in storage requirements.

**CRITICAL CAMERA FAILOVER**

Ocularis Client features automatic switching of interrupted or disconnected video streams in any live view – including maps and blank screen events – to designated alternate camera streams.

**CENTRAL MANAGEMENT FOR ALERTING, SHARED EVENT HANDLING, CLIENT ASSET AND USER AUTHORIZATION DATA**

All hardware and system operators 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.

**USER AUDIT LOGGING**

All user activity may be logged by enabling auditing in Ocularis Base. An easy-to-use query tool provides easy-to-read, color-coded results and export capability for further investigation and statistical reporting.

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FEATURES

END-TO-END DATA ENCRYPTION
Ocularis features encryption of all communications between servers and clients, and also supports HTTPS encryption between devices and recorders. Ocularis also supports the latest TLS 1.2 security protocol for securing camera-to-server communications and for server-to-server communications.

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.

SMART CAMERA DRIVERS
Smart Camera Drivers for Allnet, Arecont, Axis, Bosch, Convision, Canon, Dahua, FLIR, Grundig, Hikvision, Interlogix, Northern, Panasonic, Hanwha Techwin/Samsung, Sony and THK Security allow the use of new camera models immediately without waiting for a model-specific driver. Ocularis 5 also supports thousands of cameras from dozens of technology partners, and also includes full support for ONVIF and ONVIF Profile.

SERVER-BASED MOTION DETECTION
In addition to supporting camera-based motion detection and analytics, Ocularis 5 also includes efficient server-based motion detection with multiple regions of interest, each with their own sensitivity and threshold adjustments.

AUTOMATIC RECORDER PATCH UPDATES
Recorder patch updates can be automatically downloaded and applied in Ocularis 5, keeping the system up-to-date. Administrators may also choose to download and install patches manually.

MULTI-STREAMING SUPPORT
Ocularis 5 supports smart multi-streaming, which can automatically deliver a full resolution or low resolution stream to Ocularis Client based on the viewing needs of that Client. Views can also be configured to use a low bandwidth stream by default to conserve bandwidth.

FAILOVER & REDUNDANCY BUILT-IN
Ocularis Ultimate includes options for Core Service redundancy and automatic Device Manager Recorder failover for maximum system uptime at no extra cost.

MULTI-STREAMING SUPPORT

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FEATURES

EXCLUSIVE INVESTIGATION TOOLS
Ocularis Client’s dynamic TimeSlicer™ senses motion in an area and brings the operator right to that video thumbnail in seconds instead of hours or even days. The Kinetic Timeline™ provides fast access to continuous historical data with a backwards and forwards swipe navigation and color codes to help identify recorded video.

INTUITIVE UNIFIED VIDEO CLIENT
Ocularis Client offers a user-friendly operator interface for both desktop and control room video-wall environments, with only minimal training required for full proficiency.

360-DEGREE CAMERA DE-WARPING
Ocularis Client features native de-warping of 360-degree cameras from ACTi, Axis, Bosch, OnCam Grandeye, Panasonic, Pelco, Samsung, Sentry 360, and Vivotek as well as for cameras equipped with the ImmerVision Panamorph lens.

MIXED CONTENT VIEWS
Users can select among unlimited views of different sizes (up to 8 x 8 panes), consisting of camera streams, carousels, hotspots, web pages and Blank Screen panes for receiving automatic (on-event) and manual (peer-to-peer) push-video alerts.

MULTI-LANGUAGE SUPPORT
Ocularis Client includes support for Arabic-Modern Standard, Chinese (simplified), Dutch, English, Finnish, French, German, Hebrew, Italian, Korean, Portuguese, Russian, Spanish and Swedish.

SHARED EVENT HANDLING
All events generated within the Ocularis system, or detected by external/add-on devices, are entered in a dynamically-updated list, 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.

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.

ACCESS VIDEO ANYWHERE
Ocularis desktop, web, and mobile clients are provided license-free so video can be accessed from almost anywhere.

CAPTURE VIDEO ON-THE-SPOT
With M2OM™ (Mobile-to-Ocularis), mobile devices can be used to stream video into Ocularis*, just like another IP camera.

* Requires a camera license.
OCULARIS CLIENT
Unified operator interface for live monitoring, playback and investigation, alert management, map navigation and local VideoWall control for workstation connected displays.

OCULARIS BASE
Manages the flow of event, user and system status data from the various system components. Provides Active Directory authentication for client operators.

OCULARIS RECORDER (CORE AND DEVICE MANAGER)
Manages camera connections, recording parameters and video data.

OCULARIS MEDIA SERVER
Enables web and mobile access to video and alerts and also serves as the gateway for M2OTM video from mobile devices.

* In smaller systems, all Ocularis components may be installed on the same PC/server.
## Оcularis System Feature

<table>
<thead>
<tr>
<th>Feature</th>
<th>Professional</th>
<th>Enterprise</th>
<th>Ultimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cameras per system</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Number of recorders per system</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Number of concurrent client connections</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Ocularis Mix &amp; Match - combining multiple recorder types in a single system</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ocularis OpenSight™ option for sharing video between Ocularis systems</td>
<td>Remote</td>
<td>Remote</td>
<td>Main/Remote</td>
</tr>
<tr>
<td>Compatible with Ocularis 4.x and prior recorders</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Critical Camera Failover for camera failure protection</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Centralized user management with color-coded audit logging of user activity</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Active Directory support for client authentication and recorder to Base authentication</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Integration with 3rd-party access control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Integration with 3rd-party analytics</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Integration with 3rd-party License Plate Recognition (LPR) systems</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Data Link event integration</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Event Fusion / Composite Events</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ocularis Media Server for free web and mobile clients and optional M2O (Mobile-to-Ocularis) video streaming</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Event Actions including move-to-PTZ-preset, email, TCP/UDP and HTTP messaging</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## Ocularis Client Feature

### License-free and unlimited Ocularis Client installations
- Yes

### Multi-level map navigation with live camera previews
- Yes

### Support for 8 independently controlled displays from a single workstation
- Yes

### Touchscreen support with interactive overlay controls
- Yes

### Local VideoWall control of workstation connected displays
- Yes

### Remote VideoWall function for command and control centers
- No

### Dynamic TimeSlicer™ thumbnail search and Kinetic Timeline™ for quick and easy investigations
- Yes

### Unlimited views and view groups
- Yes

### Full encryption for client-server communications
- Yes

### Secure multi-camera database export with included Viewer
- Yes

### Snapshot still image export and printed incident report
- Yes

### Case builder with bookmarking
- No

### Support for USB joysticks for PTZ control
- Yes

### Alert management
- Yes

## Ocularis Recorder Feature

<table>
<thead>
<tr>
<th>Feature</th>
<th>128</th>
<th>Unlimited</th>
<th>Unlimited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cameras per server</td>
<td>128</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Centralized recorder management</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fully redundant recorder manager without using clustering</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic recorder patch update service</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic failover of recording servers</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Efficient and dynamic disk load balancing with no archiving requirements</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Video data aging (grooming) for long term storage</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic edge recording retrieval after network disconnect</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic scheduled export of video data</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Support for H.265, H.264, MPEG-4, MJPEG, and MxMPEG compression formats</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Supports camera-based analytics including Axis Dynamic Event Stream</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Server-based motion detection and support for camera-based motion detection and analytics</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Support for thousands of IP cameras plus ONVIF, ONVIF Profile S, generic RTPSP and MJPEG drivers</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Smart Camera Drivers for most major camera manufacturers (See Supported Devices list for complete details)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Supports multi-streaming from cameras for efficient bandwidth utilization</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TLS 1.2 and HTTPS (SSL) encryption for camera to recorder communication</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Digital input/output device support (number of devices)</td>
<td>5</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Simultaneous Standard and Alarm Recording with separate retention policies</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Incoming audio recording for supported cameras</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Two-way audio support for select cameras and audio only devices</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Multicast live view from recorder to Ocularis Client</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>No device registration or device MAC address required</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Ocularis Base

- CPU: Intel® Xeon®, (Quad Core or better recommended) or Intel® Core™ i5 or better (if running on a workstation)
- RAM: Minimum 8 GB
- Hard Drive: 500 GB or more, more for large systems utilizing extensive video database Bookmarking
- Operating System (all 64-bit):
  - Windows® 7 (Professional, Ultimate, Enterprise)
  - Windows® 8 (Standard, Professional, Enterprise)
  - Windows 10 (Professional and Enterprise)
  - Windows Server® 2012 (Standard, Datacenter)
  - Windows Server® 2016 (Standard, Datacenter)
- Software: Microsoft .NET 4.0 Framework, .NET 4.6.2 Framework and Internet Information Services (IIS) 6.0 or newer, Microsoft SQL Express 2014 or Microsoft SQL Server 2012, 2014 and 2016

Ocularis Recorder

Core Service + Device Manager (DM) (Installed on the same server or on separate servers)

- CPU: Intel Core i7-4930K @ 3.40GHz or Intel Xeon E5-2640 v3 @ 2.60GHz
- RAM: 8 GB (16 GB or more recommended)
- Available hard disk space: min. 50 GB and additional storage space for image recordings (HDD with 7200 RPM or faster recommended)
- Network: Gigabit or faster Ethernet Connection
- Operating Systems (all 64-bit):
  - Windows® 7 (Home Premium, Professional, Ultimate, Enterprise)
  - Windows® 8 (Standard, Professional, Enterprise)
  - Windows 10 (Professional and Enterprise)
  - Windows Server® 2012 (Standard, Datacenter)
  - Windows Server® 2016 (Standard, Datacenter)
- Software: Microsoft .NET 4.0 Framework, .NET 4.6.2 Framework and Internet Information Services (IIS) 6.0 or newer, Microsoft SQL Express 2014 or Microsoft SQL Server 2012, 2014 and 2016

Ocularis Client

- CPU – Intel Core i5™ or better
- RAM – 8 GB minimum (16 GB or more recommended)
- Operating Systems (all 64-bit):
  - Windows® 7 (Home Premium, Professional, Ultimate, Enterprise)
  - Windows® 8 (Standard, Professional, Enterprise)
  - Windows® 10 (Professional and Enterprise)
- Software – DirectX 9.0 or newer, Microsoft .NET 4.6.2 Framework
- Graphics Adapter – PCI-Express, minimum 256 MB RAM, Direct 3D supported

Ocularis Media Server

- CPU: Intel® Xeon® E3 Series or Intel® Core™ i5 (or better) recommended
- RAM: Minimum 8 GB (reserve 4GB for Ocularis Media Server if installing with other Ocularis applications)
- Hard Drive: 50GB or more
- Operating System (all 64-bit):
  - Windows® 7 (Professional, Ultimate, Enterprise)
  - Windows® 8 (Standard, Professional, Enterprise)
  - Windows 10 (Professional and Enterprise)
  - Windows Server® 2012 (Standard, Datacenter)
  - Windows Server® 2016 (Standard, Datacenter)
- Software: Microsoft .NET 4.0 Framework, .NET 4.6.2 Framework and Internet Information Services (IIS) 6.0 or newer
- Supported in virtual environments

Please visit the OnSSI Storage and Hardware Calculator for detailed system requirements or contact Sales Engineering at se@onssi.com.