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Ocularis 5.0

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PROFESSIONAL

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

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 feature sets – Professional, Enterprise and Ultimate – to meet the needs of organizations of all sizes and types.

The Ocularis Professional feature set is designed for organizations operating at single or multiple locations with no size limitations. It supports live monitoring and playback with multiple investigation tools.

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

CAMERA NVR SUPPORT

Axis and Samsung cameras can be used directly – utilizing the native recording capability of the camera – eliminating the need for a PC-based NVR.

OCULARIS MIX & MATCH

Ocularis allows the use of multiple different recorders under the same Base. This allows users to tailor the system to meet their needs. Ocularis Mix & Match allows an Ultimate user to install Professional and camera NVRs – as well as legacy Ocularis 4.x recorders – in the same system with centralized user and event management.

DYNAMIC DATA MANAGEMENT

Ocularis Ultimate features efficient and dynamic data management with automatic load balancing and no archiving requirements. Multiple storage zones can be configured with storage quotas.

PRIORITY CAMERA RECORDING

Cameras can be prioritized to ensure that critical areas are recorded in the event that disk space is limited.

ALARM RECORDING

Alarm scenarios can be created with different retention policies from standard recording to ensure that critical events are saved.

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.

END-TO-END SECURITY

Ocularis features 256-bit AES encryption of all communication between servers and clients, and also supports HTTPS encryption between devices and recorders.

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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.

EVENT PRIORITIZATION

Events can be prioritized from 0-10 with a corresponding color code and can also be assigned customizable audio alerts. Events handling options are configurable as well.

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. Handled events may be accessed by the administrator for continued handling.

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.

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.

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.

360-DEGREE CAMERA DE-WARPING

Ocularis Client features native de-warping of 360-degree cameras from OnCam Grandeye, Samsung and Sentry 360, 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.
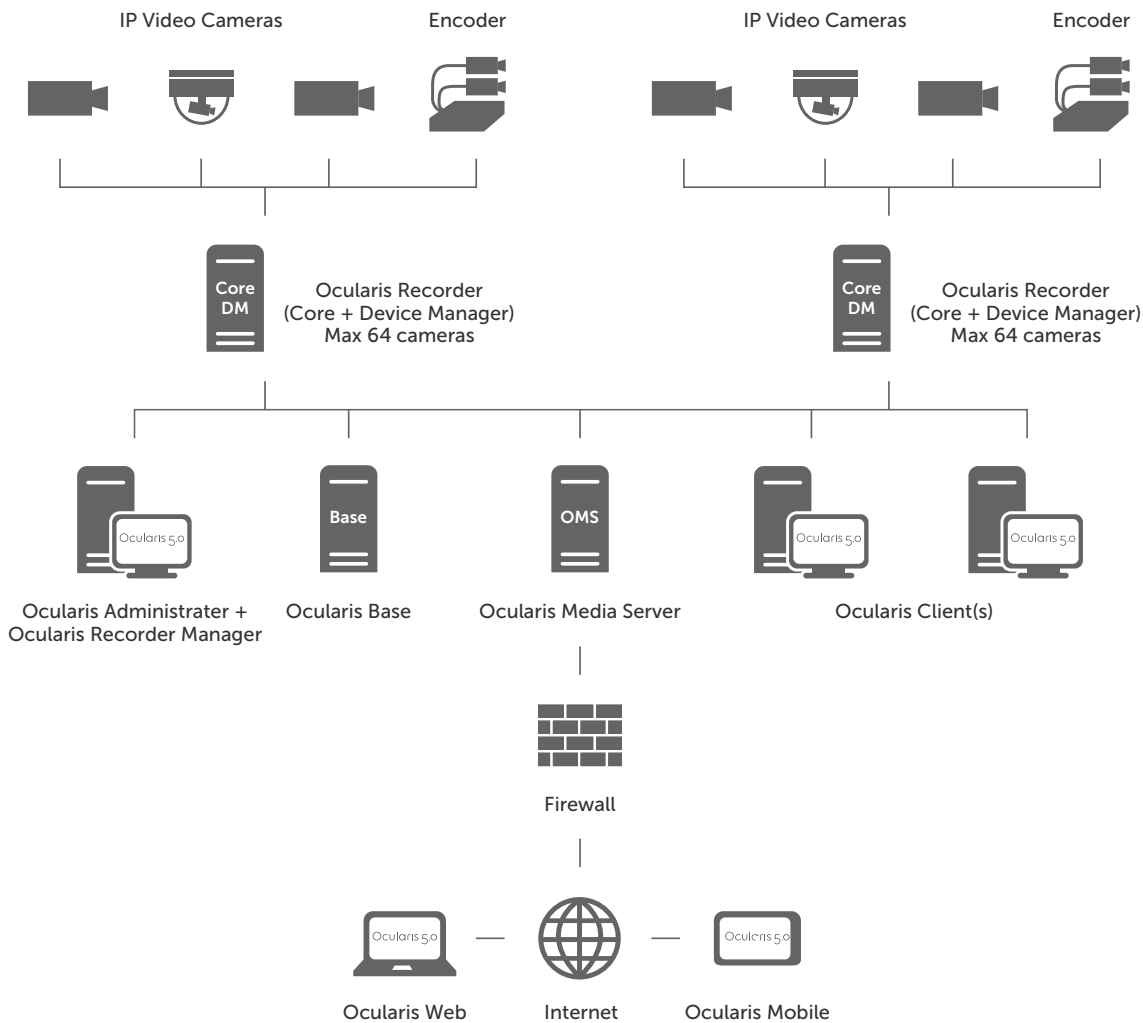
MULTI-LANGUAGE SUPPORT

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

SYSTEM DIAGRAM

IP Video Cameras   Encoder   IP Video Cameras   Encoder

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Core DM — Ocularis Recorder (Core + Device Manager) Max 64 cameras

Core DM — Ocularis Recorder (Core + Device Manager) Max 64 cameras

Ocularis 5.0 — Ocularis Administrater + Ocularis Recorder Manager

Base — Ocularis Base

OMS — Ocularis Media Server

Ocularis 5.0 — Ocularis Client(s)

Firewall

Ocularis 5.0 — Ocularis Web

Internet

Ocularis 5.0 — Ocularis Mobile

SYSTEM COMPONENTS

OCULARIS CLIENT

Unified opertator interface for live monitoring, playback and investiagtion, alert management, map navigation and VideoWall control. Includes map-based local VideoWall control for connected displays.

OCULARIS RECORDER (CORE AND DEVICE MANAGER)

Manages camera connections, recording parameters and video data.

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 MEDIA SERVER

Provides bandwidth-optimized, full-frame-rate video to remote web and mobile users as well as standard video to local web users.

FEATURE SET COMPARISON

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OCULARIS SYSTEM FEATURE	PROFESSIONAL	ENTERPRISE	ULTIMATE
Number of cameras per system	Unlimited	Unlimited	Unlimited
Number of recorders per system	Unlimited	Unlimited	Unlimited
Number of concurrent client connections	10	Unlimited	Unlimited
Ocularis Mix & Match - combining multiple recorder types in a single system	Yes	Yes	Yes
Ocularis OpenSight™ option for sharing video between Ocularis systems	Remote	Remote	Main/Remote
Compatible with Ocularis 4.x recorders	Yes	Yes	Yes
Compatible with Axis and Samsung camera NVRs	Yes	Yes	Yes
Critical Camera Failover for camera failure protection	Yes	Yes	Yes
Centralized user management	Yes	Yes	Yes
Active Directory support for client authentication	Yes	Yes	Yes
Integration with 3rd party access control	Yes	Yes	Yes
Integration with 3rd party analytics	No	Yes	Yes
Integration with 3rd party License Plate Recognition (LPR) systems	Yes	Yes	Yes
Data Link event integration	Yes	Yes	Yes
Event Fusion / Composite Events	Yes	Yes	Yes
Ocularis Media Server with HDIS for web and mobile	Yes	Yes	Yes
Event Actions including move-to-PTZ-preset, email, TCP/UDP and HTTP messaging	Yes	Yes	Yes
OCULARIS CLIENT FEATURE			
Unlimited views and view groups	Yes	Yes	Yes
Multi-level map navigation with live camera previews	Yes	Yes	Yes
Support for 8 independently controlled displays from a single workstation	Yes	Yes	Yes
Touchscreen support	Yes	Yes	Yes
Interactive overlay controls with instant playback capability	Yes	Yes	Yes
Local VideoWall control of workstation connected displays	Yes	Yes	Yes
Remote VideoWall control for command and control centers	No	Optional	Optional
Dynamic TimeSlicer thumbnail search with time, motion and sequence options	Yes	Yes	Yes
Kinetic timeline for quick and easy investigation	Yes	Yes	Yes
256-bit AES encryption for server communication	Yes	Yes	Yes
Secure multi-camera database export with included Viewer	Yes	Yes	Yes
Snapshot still image export	Yes	Yes	Yes
Printed incident report	Yes	Yes	Yes
Case builder with bookmarking	No	Yes	Yes
Support for USB joysticks	Yes	Yes	Yes
Alert management	Yes	Yes	Yes
OCULARIS RECORDER FEATURES			
Number of cameras per server	64	Unlimited	Unlimited
Centralized recorder management	No	Yes	Yes
Recorder management partitioning	No	Yes	Yes
Fully redundant recorder manager without using clustering	No	Yes	Yes
Automatic failover of recording servers	No	No	Yes
Efficient and dynamic disk load balancing with no archiving requirements	Yes	Yes	Yes
Video data aging (grooming) for long term storage	No	No	Yes
Automatic edge recording retrieval after network disconnect	No	No	Yes
Batch device configuration	Yes	Yes	Yes
Supports over 1200 cameras and encoders from leading manufacturers	Yes	Yes	Yes
MJPEG, MPEG-4, MxPEG and H.264 support	Yes	Yes	Yes
ONVIF and ONVIF Profile S support	Yes	Yes	Yes
Generic RTSP and MJPEG camera support	Yes	Yes	Yes
Universal Axis, Bosch, HikVision and Samsung drivers	Yes	Yes	Yes
Multi-stream and multi-head camera support	Yes	Yes	Yes
HTTPS (SSL) encryption for camera to recorder communication	Yes	Yes	Yes
Digital input/output device support (number of devices)	5	Unlimited	Unlimited
Alarm recording with separate retention policy	Yes	Yes	Yes
Incoming audio recording	Yes	Yes	Yes
Multicast from recorder to Ocularis Client	No	No	Yes
No device registration or device MAC address required	Yes	Yes	Yes

OCULARIS BASE SERVER

- CPU: Intel Core i3 or better
- RAM: 4 GB (8 GB if using 64-bit OS)
- Hard Drive: minimum 250 GB (dependent of recording/archiving needs)
- Operating System:
  Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
  Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 & 64-bit)
  Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)
  Microsoft Windows Server® 2008 (Standard, Enterprise) (32 or 64 bit)
  Microsoft Windows Server® 2008 R2 (Standard, Enterprise) (32 or 64 bit)
  Microsoft Windows Server® 2012 (Standard, Datacenter) (32 or 64 bit)
  Microsoft Windows Server® 2012 R2 (Standard, Datacenter) (32 or 64 bit)
- Software: Microsoft .NET 4.0 Framework; IIS 6.0 or newer

OCULARIS MEDIA SERVER

- CPU: Intel Core i7, 3rd or 4th generation, 3.0 GHz or faster
- RAM: 8GB
- Operating System:
  Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
  Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 & 64-bit)
  Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)

OCULARIS ADMINISTRATOR CLIENT AND OCULARIS RECORDER MANAGER CLIENT

- CPU: Intel Core i3 or better
- RAM: Minimum 4 GB
- Operating System:
  Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
  Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 or 64 bit)
  Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)
- Graphics Adapter: PCI-Express, 128 MB RAM, Direct 3D supported

Note: the Ocularis Administrator and Recorder Manager clients do not require a dedicated PC.

OCULARIS CLIENT

- CPU: Intel Core i5 or better (Intel Core i7 or better for 20+ megapixel streams)
- RAM: Minimum 4 GB (8 GB if using 64-bit OS)
- Operating System:
  Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
  Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 & 64-bit)
  Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)
- Graphics adapter: PCI-Express, minimum 256 MB RAM, Direct 3D supported.
- Guidelines for video RAM requirements: 20 simultaneous video streams: 256MB minimum 50 simultaneous video streams: 512MB minimum

OCULARIS RECORDING SERVER

- CPU: Intel® Core™ i5 or better or Intel® Xeon®, (Dual Core or better recommended with at least 2 GHz)
- RAM: Minimum 8GB (16 GB or more recommended)
- 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:
  (Core and Device Manager)
  Microsoft Windows® 7 (Home Premium, Professional, Ultimate, Enterprise) 64 bit
  Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) 64 bit
  Microsoft Windows Server® 2008 (Standard, Enterprise) 64 bit
  Microsoft Windows Server® 2008 R2 (Standard, Enterprise) 64 bit Recommended
  Microsoft Windows Server® 2012 (Standard, Datacenter) 64 bit
  Microsoft Windows Server® 2012 R2 (Standard, Datacenter) 64 bit

On-Net Surveillance systems raises safety standards with its award-winning IP-based surveillance software, Ocularis. OnSSI can help you increase security, reduce costs, and get you closer to prevention – while putting intelligence, automation, and intuition at your fingertips.

With its headquarters in Pearl River, New York and a regional development, sales and support center in Bruchsal, Germany, plus representation in over 100 countries around the globe, OnSSI is transforming safety standards in schools, banks, cities, offices, stadiums , and airports. OnSSI is committed to powering your surveillance system so you can truly stay one step ahead.

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