

# Documents

Relating to:

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Personally Identifiable  
Student Information  
other than records:

Surveillance

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**Brockton Public Schools  
Brockton High School  
Sharon R. Wolder  
Principal  
(508) 580-7633 fax: (508) 580-7600**

August, 2014

Dear Parent/Guardian and Student:

Attached are the rules and regulations for Brockton High School. These rules and regulations have been prepared by the high school administration and were approved by the Brockton School Committee.

Students and parents should acquaint themselves with the contents of this booklet. Every organization, particularly one as large as Brockton High School, must have a set of guiding principles by which to operate. The rules and regulations set forth in this manual have been formulated to ensure a safe and orderly atmosphere in which meaningful education can take place. Additionally, these rules also provide students with a set of standards for individual behavior.

It is our sincere hope that all parents will work with the school to prevent problems before they happen. We encourage parents to maintain contact with teachers, guidance counselors and administrators on a regular basis in an effort to resolve minor issues before they become major problems. We stand at the ready to assist you.

**For reasons of safety, Photo ID's must be worn conspicuously by all students, attached to a lanyard worn around the neck.**

Both students and parents should also be reminded of the school's use of surveillance cameras both inside and outside of the building.

Best wishes to both students and parents as we begin a new school year.

Very truly,

Sharon R. Wolder  
Principal

**NOTE: THE STUDENT'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THAT THE STUDENT HAS RECEIVED, READ AND FULLY UNDERSTANDS THE BROCKTON HIGH SCHOOL STUDENT-PARENT HANDBOOK. PLEASE NOTE THAT IT IS THE RESPONSIBILITY OF THE STUDENT TO SHARE THIS HANDBOOK WITH HIS/HER PARENT/GUARDIAN AND ANY QUESTIONS REGARDING ITS CONTENT SHOULD BE BROUGHT TO THE ATTENTION OF THE HOUSEMASTER.**

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Student's Name (printed)

\_\_\_\_\_  
Student's Signature

***FRESHMAN STUDENTS MUST HAVE THIS SHEET SIGNED AND RETURNED TO SCHOOL.***



**OnSSI**

On-Net Surveillance Systems, Inc.

# OCCULLA PRIS

## Surveillance Systems, Inc.

On-Net Surveillance Systems, Inc. (OnSSI) offers a comprehensive IP video surveillance control and management software solution and continues to develop the most advanced IP based intelligent video surveillance solution in the market. OnSSI collaborates with leading developers of key technologies: video intelligence and content analytic modules worldwide. OnSSI's commitment to an open architecture, non-proprietary solution platform support, virtually any IP camera and/or encoder on the market, allows for the utilization of off the shelf hardware, and facilitates the integration of new technologies.

Utilizing corporate IT standards and infrastructure, OnSSI is committed to helping our clients address their strategic physical security requirements and related risk management challenges. Our clients are able to choose best in breed components as they evaluate and identify the appropriate physical security surveillance solution. In addition to the obvious security applications, OnSSI's solution platforms enable the use of video as an information resource for the corporation. OnSSI's IP solution can be found in a wide range of municipalities, federal and local government agencies, as well as enterprise, industrial, and educational settings.

# OCULARIS

## The New Platform for IP Video Control

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### Why Ocularis

As the convergence of physical security and traditional IT applications continues to evolve, security professionals require a new set of tools to help facilitate the seamless integration and implementation of legacy and new technology solutions across the enterprise. OnSSI's current market leading IP-based video surveillance solution set continues to evolve with the introduction of Ocularis. Ocularis is a truly innovative IP-based video surveillance management and control software solution that provides the functionality, scalability, and lower total cost of ownership required to move to a truly integrated IP-based security operating platform.

Ocularis is different than traditional video surveillance systems because we approach the application from a true IT perspective, reflected by the open architecture and hardware agnostics of our solution, as well as its extensive software-driven functionality and ease of operation. This provides an ideal gateway for users looking to take advantage of the inherent benefits offered by IP technology using their existing systems, and for new IP based deployments.

The intelligence built into our IP video surveillance management solution crosses several operational parameters. In addition to standard access to video-on-demand, we are focused most on what security professionals 'need' to see and record, versus seeing and recording everything. By utilizing advanced analytics, and Event Fusion, to detect and filter events, Ocularis employs "push" technologies similar to those found in diverse IT management and reporting applications. Thus, alert-based displays are pushed to subscribers on an 'as needed' basis. This provides a more pragmatic approach to IP video and integrated physical security systems without any sacrifice of performance or security operations. As a result fewer operators effectively monitor several to hundreds and thousands of cameras in control room and desktop environments, substantially reducing operating costs.

Ocularis' open-architecture, non-proprietary solution platform supports virtually any IP camera and/or encoder on the market, allows for the utilization of off the shelf hardware, and facilitates the integration of new technologies. Our clients are able to choose 'best-of-breed' components as they evaluate and identify the appropriate physical security surveillance solution. These powerful software applications can be combined in any configuration for any size application, with advanced analytics, so users can best manage the functionality of their physical security systems while enforcing security policies. The intuitive user interface enables all users to realize the tremendous productivity and performance enhancements delivered by Ocularis.

Ocularis is a continually evolving needs-based intelligent IP video surveillance solution set meeting our clients' requirements today, and assuring their ability to move forward in the future.

We are committed to your success.

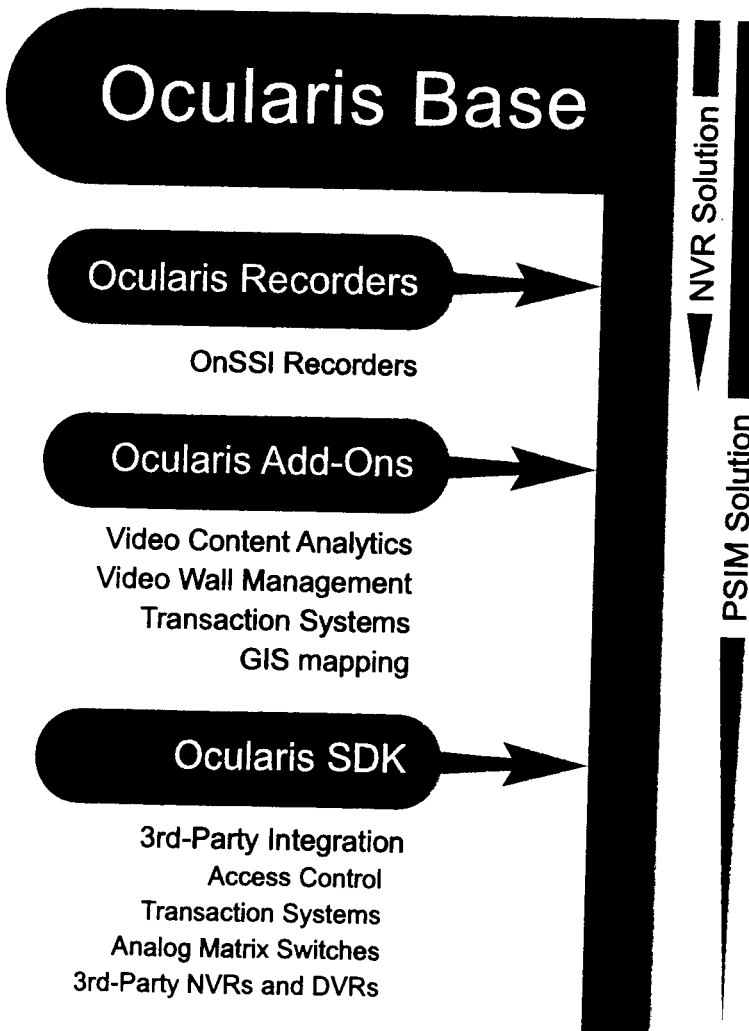
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Ocularis, OnSSI's intelligent IP video surveillance management platform, represents a quantum leap in video detection, analysis, delivery and response.

Ocularis, OnSSI's flagship product, is an open-architecture, non-proprietary, video-centric PSIM (Physical Security Information Management) software platform that allows you to view, manage, and record video from an unlimited number of IP and non-IP video surveillance cameras. Ocularis enables you to manage short and long term video storage, and correlate and fuse video and non-video events and alerts, resulting in automatic video delivery to subscribers of interest. Optional Ocularis Add-On modules, and 3rd party applications, enable you to extend the functionality of your Ocularis solution.

Ocularis provides one of the most advanced, intuitive and user friendly unified client applications to access video and event information, either on-demand or as a result of events. It is also compatible with OnSSI's prior generation NVR and management solutions, providing a seamless migration path for current OnSSI users.



# OCULARIS PLATFORM

## Scalable Functionality; NVR to PSIM

Ocularis is a modular software platform that consists of three main components, The Ocularis Base, the Ocularis Recorders and the Ocularis Add-On applications. The platform is designed to enable client organizations to tailor and implement the solution that most effectively addresses their physical security requirements. With the Ocularis Base, and the selected Recorder, you can very effectively address your NVR system requirements. By enhancing your video surveillance solution with various optional, integrated Ocularis Add-On components you can create the most advanced and robust video-centric PSIM solution in the industry.

### Ocularis Base

Open Architecture, Non-Proprietary Technology      The Ocularis Base application is the core of the Ocularis platform, responsible for system management, user access, alarm and event correlation, video access, and distribution rights. Ocularis' open-architecture, non-proprietary management platform allows for the utilization of off the shelf hardware and facilitates the integration of new technologies, including various optional OnSSI component applications (Ocularis Add-Ons), described below.

The Ocularis software platform is capable of integrating with best-of-breed video intelligence, physical security, IT and POS systems, through a wide range of on-the-fly integration tools including OPC Data Stream, Generic ASCII Generated Events, API commands, Contact Closure and more. An optional Software Development Kit (SDK) enables 3rd party components to be seamlessly connected to Ocularis.

With the purchase of the Ocularis Base you are provided the ability to install an unlimited number of Ocularis Recorders and the use of unlimited Desktop, Mobile and PDA/Smartphone clients. Realize unlimited expansion of your system with only a one-time per camera license fee.

### Ocularis Recorders

Multiple Recording Platforms and Video Clients; Universal Camera and Hardware Support  
Ocularis Recorders utilize a distributed architecture, with centralized and/or decentralized recording management, and are scalable for multiple-site and multiple-server video surveillance systems. Ocularis Recorders communicate with an unlimited number of cameras and video encoders, including those with audio inputs, anywhere on the system network, wired or wireless, without the need for video matrixes, multiplexers, or switches. Ocularis recorders manage video recording, storage onsite and offsite, and the distribution of video to system users.

Support for multiple modes of streaming video to client users allows for optimization of bandwidth and processing resources. Requiring only a single stream of video from the camera, video can be streamed and redistributed to multiple users from the recorder(s). In addition, Ocularis supports multicasting and dual streaming for large-scale distribution of video across multiple networks.

Meeting all operational situations and providing immediate access and response to captured events, video from all connected cameras can be monitored, investigated, shared and exported through the Ocularis Video Client for desktop and video wall (optional) monitoring environments, the Ocularis Web Client and the NetPDA and NetCell handheld clients.

Ocularis Recorders support virtually any IP camera and/or encoder on the market, and all common compression formats, MJPEG, MPEG4, H.263, Wavelet, H.264\* and MxPEG, enabling you to retrofit your existing analog installation, providing the most flexibility in camera selection, and integrating with 3rd party DVRs and NVRs.



# OCULARIS ADD-ONS

## Modular, Optional Functionality

As a modular system, end-users can enhance the functional capabilities of their Ocularis solution by adding selected Ocularis Add-On components to the Ocularis Base. The Ocularis Add-Ons extend the solution from a comprehensive NVR management system to a robust video-centric PSIM system, delivering value to the entire enterprise. Optional add-on components to the base Ocularis system include:

**Ocularis Video Wall** The Ocularis Video Wall enables sending video to video wall monitors and remote displays anywhere on the network; all from a Command Center or desktop Ocularis unified Client's intuitive, graphical, map-based controller interface. The Ocularis Video Wall Controller can accommodate any number of cameras, displays and simultaneous operators at multiple sites.

Replacing bulky analog multiplexing hardware with the industry's most advanced virtual video matrix switching software, the Ocularis Video Wall Add-On makes Ocularis the ideal IP-video platform for enterprise-scale command and control centers, central station and remote alarm monitoring operations.

The Ocularis Client's map-based, optional touchscreen-enabled interface enables pushing any camera stream to any display simply by dragging a camera or camera group icon to the video wall panel. This eliminates the need to remember camera, server, site or display codes. The Video Wall Controller requires minimal training to proficiency, significantly reducing operating costs.

**Ocularis GIS (Geographic Information System)-Mapping** \* Ocularis Client's map-based navigation to sites and cameras is significantly enhanced with multi-layer mapping and dynamic camera positioning. GIS-based mapping allows for GPS tracking cameras in moving vehicles, tracking clients, as well as incorporating real-time data about traffic conditions, weather, user information and more.

**Ocularis Analytics** Video Content Analytics enable the accurate detection of movements and behaviors, both human and vehicular, corresponding to highly configurable rules, with no limit on the number of connected cameras or detection rules per camera. Analytics-generated alerts can be pushed automatically to users' Ocularis Clients and/or video wall displays, together with a graphical metadata overlay indicating the object or movement that triggered the event.

**NetTransact** For instant access to video of transactions from cash registers, toll collection systems, license plate recognition systems, ATMs and other systems, NetTransact provides an effective solution for integrating transaction data into the Ocularis Client. Video of an individual transaction can be called by time/date, free text, or other methods, synchronized, and presented with the video data.



**3rd-Party Access Control System Integration**

Integration with third-party access control systems enables linking high-quality video to access-control-generated events from human and vehicular entry points. Incoming access control alerts trigger video recording, alarms and push video to users, in addition to populating operators' alerts lists, for further review. Access control events can be combined with video content analytics to create composite events, corresponding to rules configured in both systems.

**3rd-Party Analog Matrix Switching Integration**

\* Users' existing analog cameras and matrix switching systems can be integrated into Ocularis, allowing for flexible video wall and remote display management through the Ocularis Client map-based interface.

\* Available in a future release of Ocularis



Views Triggers Audio

Camera 12

7/18/25 15:13:24 H00

On-Net Surveillance Systems, Inc.

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# OCULARIS CLIENT

(Patent Pending)

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## Advanced Human Engineering; Intuitive Functionality

We set out to rethink the way surveillance video is accessed, monitored and investigated. The result was the Ocularis Client, providing efficient user access by a unified client across the entire Ocularis platform. The Ocularis Client delivers a completely unique level of user experience and functionality.

Ocularis' intuitive client interface intelligently reacts to the user's actions at any given moment, elegantly presenting only the controls and tools indicated by the current mode of operation, enabling enhanced user navigation, and facilitating immediate investigation of events.

While not required, Ocularis is designed to leverage touch-screen technology. Its simplicity and advanced human engineering enable operators to reach proficiency within minutes of training. Touch, drag, slice and send. It's that easy.

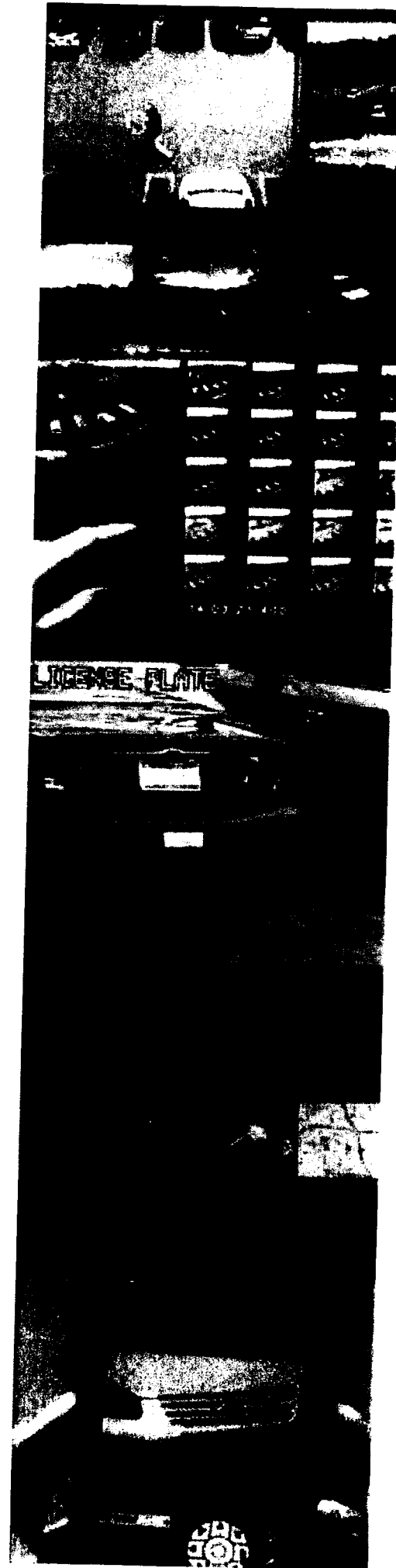
**Simple Map-Based Navigation** Scalable, linkable maps allow easy navigation to cameras and sites, with no need for camera, monitor or location codes. Simply by dragging its icon to the monitor panel, any camera or camera group in the system can be instantly sent to any local or remote display monitor or video wall (optional). Video sent to any display can be fully controlled remotely by the Ocularis Client operator.

**Enhanced Live Monitoring with Instant Investigation** With the Ocularis Client, we have extended the concept of live video monitoring. There's no need to transition to a different operating mode in order to simply review video. Playback controls, as well as controls for optical (when available) and digital PTZ, will, upon interaction, pop up within any camera view, including carousels. When an incident is identified, it can be pushed directly to a video wall or another user's Ocularis Client, and further reviewed using a variety of tools.

**Powerful Investigation Tools** Ocularis Client's multiple investigation tools allow even non-experienced operators to immediately identify when key events occurred. Access, review, bookmark and export video of incidents quickly and efficiently. Following is a synopsis of key investigative functionality:

- **Scalable Kinetic Timeline** – Clearly indicating zones of detected motion, the timeline can be scaled to any desired time interval and 'flicked' to quickly review multiple cameras over an extended period.
  - **Time Slicing** – Time-interval thumbnails allow drilling down through time to identify the exact moment an event occurred. Archive searches are shortened from hours to seconds, even in high traffic areas where motion detection or video content analytics might not be able to detect events.
  - **Motion Slicing** – The Motion Slicing tool automatically generates thumbnails of motion detection events, configured by sensitivity and the object's size and speed.
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- **Click-Drag Digital PTZ** – Digital PTZ can be applied to live and recorded video in any mode of operation, including carousel viewing and time-slice thumbnails.
- **Alerts and Sequences** – Allow access to alerts and video sequences of incidents generated by content analytics, access control, physical security and POS systems.
- **Shared Event Handling** – The Ocularis Client enables shared event handling among multiple controllers and locations. All operator locations, from desktop-based to command center, are connected to a common dynamically-updated alerts database. From within the alerts list operators are able to access and investigate video of alerts generated throughout the system, enter event classification and comments, bookmark a segment of video, and export video evidence.
- **Bookmarking and Export of Evidence** – Users are able to easily bookmark segments of video through a simple graphical interface, along with event classification, case number, time and location, camera ID and operator comments. Once created, bookmarks can be shared among multiple operators. Bookmarked video can then be exported, including audio, as an AVI with a preamble, including all event details and comments, or as a multiple-camera secure database for court evidence.



## Why Ocularis

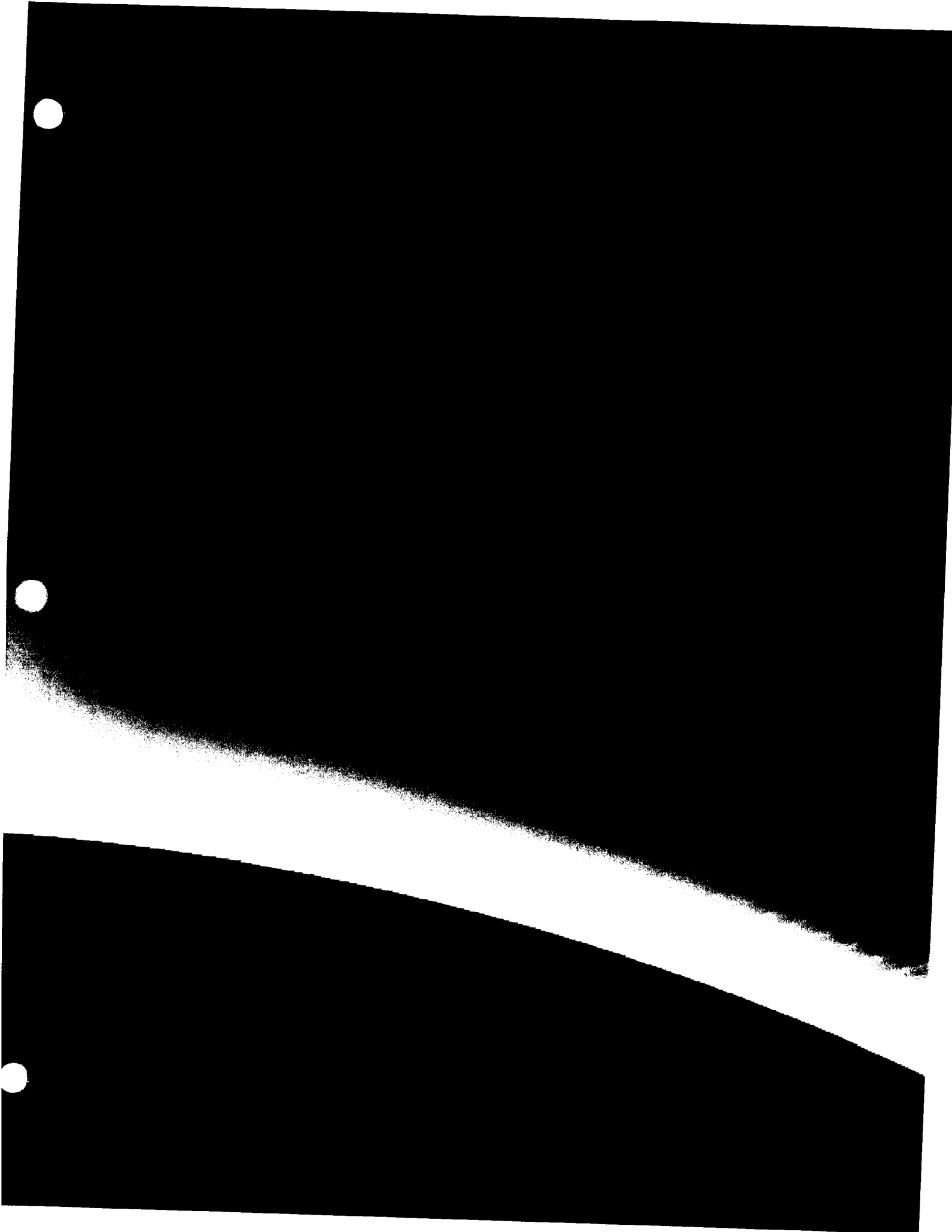
We understand the challenges Security and IT executives must address, as you develop strategies to protect and secure the assets of your organization. Ocularis is designed to help you build the physical security solution that will address your requirements today, and assure your ability to move forward in the future. Offering a unique user experience on an advanced technology platform, Ocularis provides the following value, advantages, and benefits:

- Ocularis, provides the functionality, unlimited scalability, and lower total cost of ownership required to move to a truly integrated IP-based security operating platform.
- Leveraging corporate IT standards and infrastructure, Ocularis' open-architecture, non-proprietary platform supports virtually any IP camera and/or encoder on the market, allows for the utilization of off the shelf hardware, and facilitates the integration of new technologies. Our clients are able to choose 'best-of-breed' video content analytics, access control, physical security, transaction and other systems.
- Ocularis' intuitive, map-based interface facilitates powerful investigation tools that provide immediate access and response to recorded events and corresponding data. This is accomplished with advanced system performance features and functionality to more effectively monitor, analyze, control and record system cameras with unlimited scalability.

Ocularis delivers significant cost savings and ROI for organizations:

- By utilizing advanced video content analytics to detect and filter events alert-based displays are pushed to subscribers on an 'as needed' basis. As a result fewer operators effectively monitor several to hundreds and thousands of cameras in control room and desktop environments, substantially reducing operating costs.
- In the IP environment Ocularis' Video data provides valuable information throughout the enterprise, enhancing safety, reducing insurance exposure and costs, and enhancing marketing, merchandising, and maintenance decisions. The value of OnSSI's technology far exceeds the intrinsic value of traditional video surveillance.
- OnSSI Ocularis runs on off-the-shelf PC hardware, allowing for hardware and component updating throughout the lifetime of the software (which is not the case with proprietary DVR systems). In addition, users can maximize their investment in cameras by incorporating their existing analog cameras and/or by choosing among all leading manufacturers' IP cameras and video encoders.
- Ocularis' intuitive user interface eliminates the need to remember codes or locations for cameras, camera groups, client displays, video walls, etc. The entire live monitoring, investigation and export of evidence is based on simple drag-and-drop operations. This reduces the training time to proficiency from days to minutes, and allows hiring operators that are not computer-savvy.
- OnSSI has created a seamless migration path for its clients to upgrade to the Ocularis platform. Thus, OnSSI's development strategy assures that client investment is maximized in the present and preserves maximum options for future upgrade and implementation; depending upon a client's support status, possibly at no incremental cost.

We are committed to your success.



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On-Net Surveillance Systems, Inc. offers a comprehensive IP video surveillance control and management software solution. Ocularis, OnSSI's IP Video Control platform, is designed to operate on a single platform with unprecedented levels of user-intuitiveness and scalability. Ocularis' open-architecture, non-proprietary solution platform supports virtually any IP camera and/or encoder in the market, allows for the utilization of off the shelf hardware, and facilitates the integration of new technologies. With core competencies rooted in both the IT and professional security markets, OnSSI's unique solution provides feature-rich camera management, sophisticated recording and archiving, automatic Push Live-Video-on-event, control-room video-wall management and virtual matrix functionality. OnSSI's IP solutions can be found in a wide range of municipalities, federal and local government agencies, as well as enterprise, industrial, and educational settings.

On-Net Surveillance Systems, Inc. Subsidiaries:

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Great China International Exchange Square  
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111 How Ming Street, Futuna Plaza, Suite 803  
Kwun Tong, Kowloon  
Hong Kong  
www.onssi.com.cn

# Ocularis Add-Ons

## Modular, Optional Functionality

**Ocularis Add-Ons** As a modular system, end-users can enhance the functional capabilities of their Ocularis solution by adding selected Ocularis Add-On components to the Ocularis Base. The Ocularis Add-Ons extend the solution from a comprehensive NVR management system to a robust video-centric PSIM system, delivering value to the entire enterprise. Optional add-on components to the base Ocularis system include:

**Ocularis Video Wall** The Ocularis Video Wall enables sending video to video wall monitors and remote displays anywhere on the network, all from a command center or desktop Ocularis unified Client's intuitive, graphical, map-based controller interface. The Ocularis Video Wall Controller can accommodate any number of cameras, displays and simultaneous operators at multiple sites.

Replacing bulky analog multiplexing hardware with the industry's most advanced virtual video matrix switching software, the Ocularis Video Wall Add-On makes Ocularis the ideal IP-video platform for enterprise-scale command and control centers, central station and remote alarm monitoring operations.

The Ocularis Client's map-based, optional touchscreen-enabled interface enables pushing any camera stream to any display simply by dragging a camera or camera group icon to the video wall panel, eliminating the need to remember camera, server, site or display codes. Camera streams pushed to remote or public displays can be controlled using optical and digital PTZ, instantly investigated, and exported as evidence, all within the Ocularis controller. Operators have access to a common dynamic events list for shared notification, reviewing, commentary, and confirmation/acknowledgement of events. The Video Wall Controller requires minimal training to proficiency, significantly reducing operating costs.

**Ordering information:**

The Ocularis Video Wall requires a video wall base license (OC-VWM Base), as well as a camera license (OC-VWM-1C) for each connected camera or encoder channel.

1, 2 and 3-year Software Upgrade Plan (SUP) is optional; add prefix 'SUP' and suffix indicating number of years to component order code (e.g. SUP-OC-VWM-1C-2Y). SUP must be ordered for the entire Ocularis system, and can not be purchased for individual components.

**Ocularis Analytics** Video Content Analytics enable the accurate detection of movements and behaviors, both human and vehicular, corresponding to highly configurable rules. By detecting and filtering events, alert-based displays are pushed to subscribers on an as needed basis, allowing fewer operators to efficiently monitor ever-growing camera arrays.

Analytics-generated alerts can be pushed automatically to users' Ocularis Video Clients and/or Video Wall displays, together with a graphical metadata overlay indicating the object or movement that triggered the event. Multiple rules, for a variety of behaviors, can be applied to a single camera, and complex detection scenarios can be created by linking analytics rules based on a predefined sequence of events. Any camera can run an unlimited number of rules.

Ocularis Analytics integrates with cameras and video encoders which can perform the analytics processing on-edge, and are fully scalable, with no limit on the number of connected cameras,



analytics modules per camera, analytics rules or analytics servers. Ocularis' Event Fusion capability enables the generation of composite alerts by linking analytics-generated events to events generated by third-party access control, transaction or other systems.

Ocularis Analytics detection modules meet the needs of a wide range of industries and organizations. See the 'Ocularis Analytics' product sheet for more information and a full description of detection modules.

Ordering information:

The Ocularis Analytics Add-On requires an Analytics base license (AVI-Base), as well as Analytics Bundles for 1, 2, 3, 4, 5 or unlimited concurrently activated analysis modules, per camera (e.g. AVI-Three-1C; AVI-ENT-1C for unlimited modules.)

1 year Software Upgrade Plan (SUP) is optional; add prefix 'SUP' to component order code (e.g. SUP- AVI-Three-1C). SUP must be ordered for entire Ocularis system, and can not be purchased for individual components

**NetTransact** NetTransact provides an effective solution for integrating transaction data into the Ocularis Client, allowing instant access to video of transactions from cash registers, toll collection systems, license plate recognition systems, ATMs and other systems.

Transaction data received by NetTransact is presented alongside multiple-camera, time-stamped video of the transaction. Video of an individual transaction can be called by time/date, free text, or other methods, synchronized, and presented with video data. Clicking on the video window will bring up the details of the transaction shown. Transaction source data is received via serial server, serial cable or IP interface, using multiple data protocols, and can be filtered for video integration using an easy-to-use editor.

Once accessed, transaction entries can be synchronously scrolled together with corresponding video from multiple cameras, reviewed using the Ocularis Client's array of investigation tools, shared among unlimited concurrent operators at multiple sites, and exported for court evidence.

Ordering information:

The NetTransact Add-On requires an Ocularis NetTransact Base license (OC-NETTRAN-B), as well as a connection licenses for each connected transaction source (OC-NETTRAN-1T).

1-year Software Upgrade Plan (SUP) is optional; add prefix 'SUP' to component order code (e.g. SUP OC-NETTRAN-1T). SUP must be ordered for entire Ocularis system, and can not be purchased for individual components

**3rd-Party Access Control System Integration** Ocularis enables seamless integration with third-party access-control systems, for linking high-quality video to access-control-generated events at human and vehicular entry points.

Access control events can be combined with video content analytics to create composite events, corresponding to rules configured in both systems. Such events can distinguish, for example, between 'legal' tailgating (legal swipes by all entrants) and 'illegal' tailgating (second person did not swipe; not detectable by the access control system alone). Once an access control alert is received, it can be further investigated in the Ocularis Client using a variety of investigation tools, shared among multiple operators at multiple sites, and exported for court evidence.

The Ocularis Event Fusion functionality allows configuring a wide range of actions in response to access-control events, including video recording, push pop-up video alerts to Ocularis Client users or video wall displays, or triggering an alarm.

**Ocularis GIS (Geographic Information System) - Mapping\*** The Ocularis Client's map-based navigation to sites and cameras is significantly enhanced with multi-layer mapping and dynamic camera positioning. GIS-based mapping allows for GPS tracking of cameras in moving vehicles, tracking clients as well as incorporating real-time data about traffic conditions, weather, user information and more.

**3rd Party Analog Matrix Switching Integration** \* User's existing analog cameras and matrix switching systems can be integrated into Ocularis, allowing for flexible video wall and remote display management through the Ocularis Client's map based interface.

\*Available in a future release of Ocularis

**Ocularis** Combining recording, event management, video intelligence and client access, Ocularis, OnSSI's intelligent IP video control & management software platform, redefines the boundaries of intelligent IP video surveillance. Ocularis' open-architecture, non-proprietary solution enables seamless integration with third-party physical security, enterprise and video content analytics applications. The touchscreen-enabled, map-based Ocularis Client, for desktop and video wall environments, provides instant access to cameras and camera groups, powerful investigation tools including the revolutionary Time Slicer and Motion Slicer, and shared handling among multiple operators. The Ocularis Client allows access to video of an incident, thorough investigation, bookmarking, shared management and export of evidence all within seconds.



# Ocularis Analytics

Fully Scalable, Configurable, Rules-Based

**Ocularis Analytics** Due to increasingly larger systems, today's video surveillance systems produce more content than ever before. In many cases, the manned monitoring model has become impractical or cost-prohibitive. This calls for an entirely new set of tools that enable extracting critical information from vast amounts of live and recorded content. Ocularis Analytics increase the effectiveness and responsiveness of your IP-video system with automated detection of targeted behaviors based on fully scalable, rules-based video content analytics.

Ocularis' Video Content Analytics enable the detection of movements and behavior patterns corresponding to configurable rules, including time-lapse events (e.g. loitering or stalled vehicle) that are often overlooked by security personnel. Analytics-generated alerts can be pushed automatically to users' Ocularis 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, and complex detection scenarios can be created by linking analytics rules based on a predefined sequence of events.

**Event Fusion** Ocularis' Event Fusion capability enables the generation of composite alerts by linking analytics-generated events to events generated by access control, transaction or other systems. This reduces the false detection rate and increases detection accuracy.



Content Analytics Integrated into the Ocularis Client

**Distributed, Scalable Architecture** Featuring a distributed, open systems design, Ocularis Analytics can integrate with an array of cameras and video encoders which perform the analytics processing on-edge (prior to image compression), thus maximizing bandwidth utilization. Ocularis Analytics are fully scalable, with no limit on the number of connected cameras, analytics modules per camera, or analytics servers.

**Beyond Security** Industry-specific analytic modules extend the functionality of the entire IP-video platform beyond security and safety. Transportation authorities can employ vehicle counting and detection for traffic control and analysis. Analytics can be applied to industrial assembly lines to detect exceptions. In retail, analytics can be used to count people on cashier lines, detect shoplifting, detect 'slip-and-fall' incidents, and measure the time shoppers spend by a display, turning the analytics system into a profit center by sharing video with suppliers and analyzing consumer behavior.

**OCULARIS** Combining recording, event management, video intelligence and client access, Ocularis, OnSSI's intelligent IP video control & management software platform, redefines the boundaries of intelligent IP video surveillance. Ocularis' open-architecture, non-proprietary solution enables seamless integration with third-party physical security, enterprise and video content analytics applications. The touchscreen-enabled, map-based Ocularis Client, for desktop and video wall environments, provides instant access to cameras and camera groups, powerful investigation tools including the revolutionary Time Slicer and Motion Slicer, and shared handling among multiple operators. The Ocularis Client allows access to video of an incident, thorough investigation, bookmarking, shared management and export of evidence all within seconds.



## Ocularis Analytics Configurable Detection Modules

**Movement-In-Zone** – detection of human or vehicular movement in sterile/secure zones where no movement is expected, with filters for direction and speed of movement.

**Directional Line Crossing** – virtual line ('tripwire') crossing for human and vehicular movement. Used for controlling crowds where movement is expected in the field of view, or for detection of vehicles crossing separation lines or entering unauthorized areas.

**Crowding** – alarm is generated upon crowd size reaching a user-defined threshold for a configurable period of time.

**Tailgating** – detection of person or vehicle crossing entry/access-point line within a user-defined time interval after another person or vehicle. Can be easily integrated with access control systems.

**Loitering** – detection of person sojourning within defined zone for user-defined period of time.

**Grouping** – event generated upon number of persons in defined zone exceeding exact threshold. Used for secure zones and small groups.

**Fallen Person (slip-'n-fall)** – detection within seconds of transition from person's vertical position to horizontal/angled position.

**Object Counting** – directional counting of moving people and/or vehicles, with database storage of results and various statistics reports including overall daily traffic, traffic density hot spots, comparison between specific hours and days and more.

**Stickiness** – counts people that remain in field of interest for more than the user-specified dwell time; useful for measuring the effectiveness of retail displays.

**Moving Water Vessel** – detection of water vessel movement, filtering out waves, sun reflections and typical waterscape phenomena.

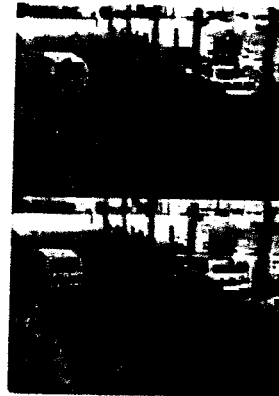
**Suspicious (Abandoned) Object** – detection of abandoned object in area of interest with filters for size and length of time object is present.

**Illegally-Parked (Stopped) Vehicle** – detection of vehicles stopped in one or more 'no-stopping' zones beyond a configurable time threshold.

**Road Obstacle** – detection of obstacles in area of interest that remain stationary for more than the predefined amount of time, filtered for size of obstacle and duration.

**Object Removal** – detects the removal of an object from a customer-defined region in a video camera's field of view. Event is reported whenever object is moved from the region.

**Asset Protection** – detects the removal of up to 20 objects from a camera's field of view. Event is reported when an object is removed or hidden for more than the specified amount of time.



Multiple analytics modules applied to single camera. Shown: movement-in-zone, stopped vehicle and suspicious object

## Ordering information

System Wide License  
AVI Base 1000000000 per  
entire system

Ocularis Analytics can be  
licensed per camera or per camera  
array and includes:  
AVI Base 10  
AVI Base 10  
AVI Base 10  
AVI Base 10  
AVI Base 10

Unlimited on-camera software  
updates

AVI Base 10

Software Upgrade Plan (SUP)  
Optional 1 Year SUP. Add pricing SUP  
to any camera or camera array.  
SUP AVI Base 10. Pricing SUP for  
entire Ocularis system can not be  
added for individual components.

## Vertical Applications

Public Safety, Education and  
Corporate

- Movement into location of  
person or vehicle in restricted  
zone
- Persons and vehicles  
stopped in zone
- Unauthorized entry and tailgating  
detection at entry points
- Abandonment of lost packages
- Loitering
- Object count in restricted areas
- Vandalism, camera tampering and  
graffiti prevention

## Transportation

- Vehicles in restricted lanes
- Wrong way driving
- Vehicle identification, density  
and counting
- Speeding, wrong driving and  
in-lane lane changing
- Tailgating at toll lanes and  
entry points
- Persons exiting vehicle at toll lanes
- Loss prevention at toll booths
- Detection of motion on water

## Retail and Loss Prevention

- Detecting high value, high theft  
retail areas
- Removal of objects with detection for  
tag theft cases
- Reaching over the counter detection
- Motion detection at receiving and  
delivery docks
- Monitoring of theft and  
purchasing activity
- Line queuing at points of sale
- Loss prevention via integration with  
OnSSI NetTransact