OnSSI

On-Net Surveillance Systems, Inc.

OCULARIS

On-Net 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 solutions in the market. OnSSI collaborates with leading developers of key technologies, video intelligence and content analytics modules worldwide. OnSSI's commitment to an 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.

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 solutions can be found in a wide range of municipalities, federal and local government agencies, as well as enterprise, industrial, and educational settings.

OCULARIS
The Platform for
IP Video Management

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.
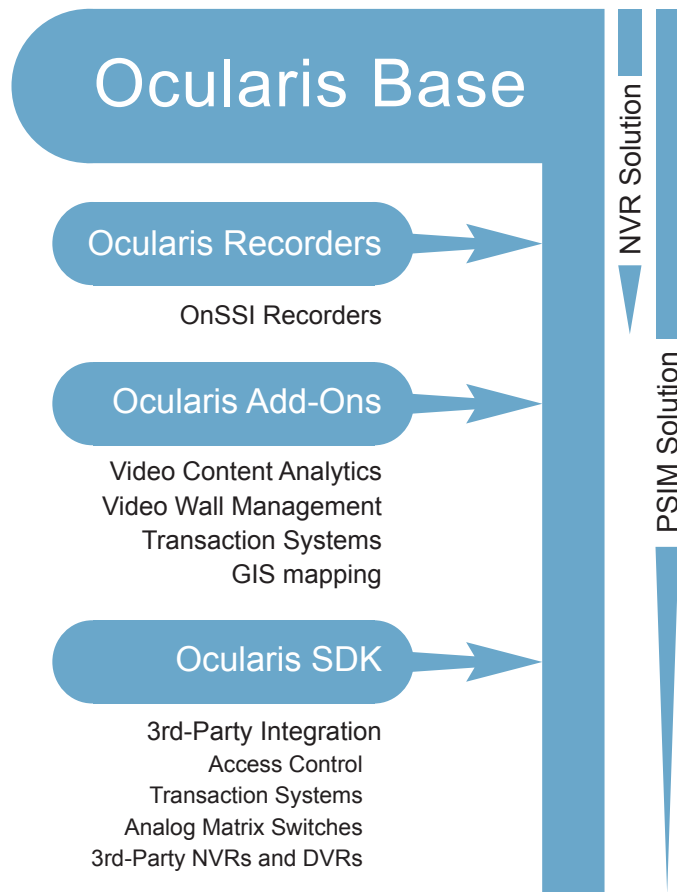
We are committed to your success.

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 Base

Ocularis Recorders

OnSSI Recorders

Ocularis Add-Ons

Video Content Analytics
Video Wall Management
Transaction Systems
GIS mapping

Ocularis SDK

3rd-Party Integration
Access Control
Transaction Systems
Analog Matrix Switches
3rd-Party NVRs and DVRs

NVR Solution

PSIM Solution

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 , 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, 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 add-on enables sending video streams to video wall monitors and remote displays anywhere on the network, all from Ocularis Client's unified, map-based controller interface, in Command Center or desktop settings. 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.

3rd-Party Transaction System Integration   Ocularis enables integration with third party transaction systems for instant access to video of transactions from cash register, toll collection, license plate recognition (LPR), ATM and other systems. Video of an individual transaction can be instantly called for verification and visual identification, based on the event information received from the transaction system.

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 42
2008/3/25 16:13:24.855
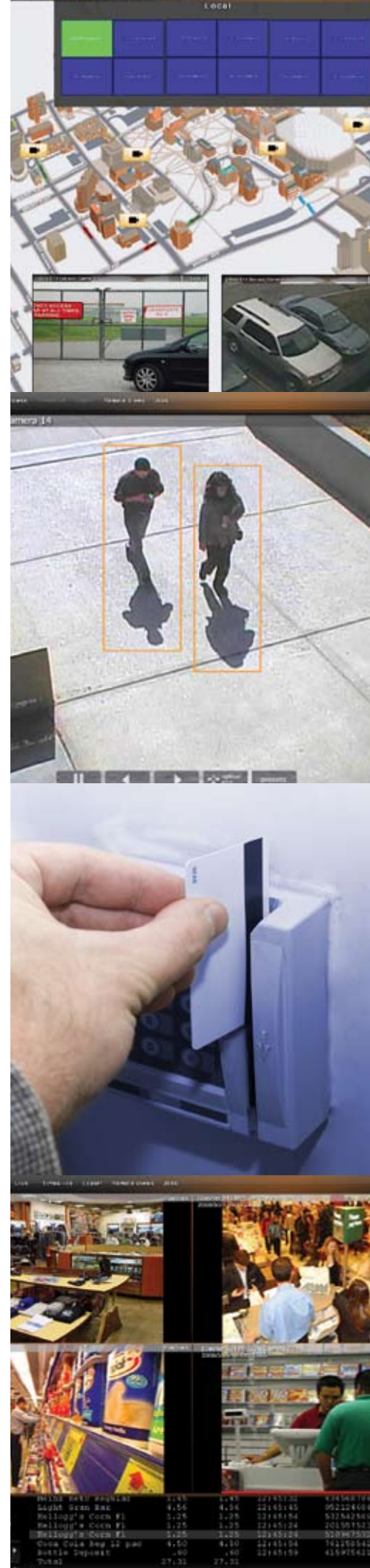
OCULARIS CLIENT (Patent Pending)

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.

- **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.
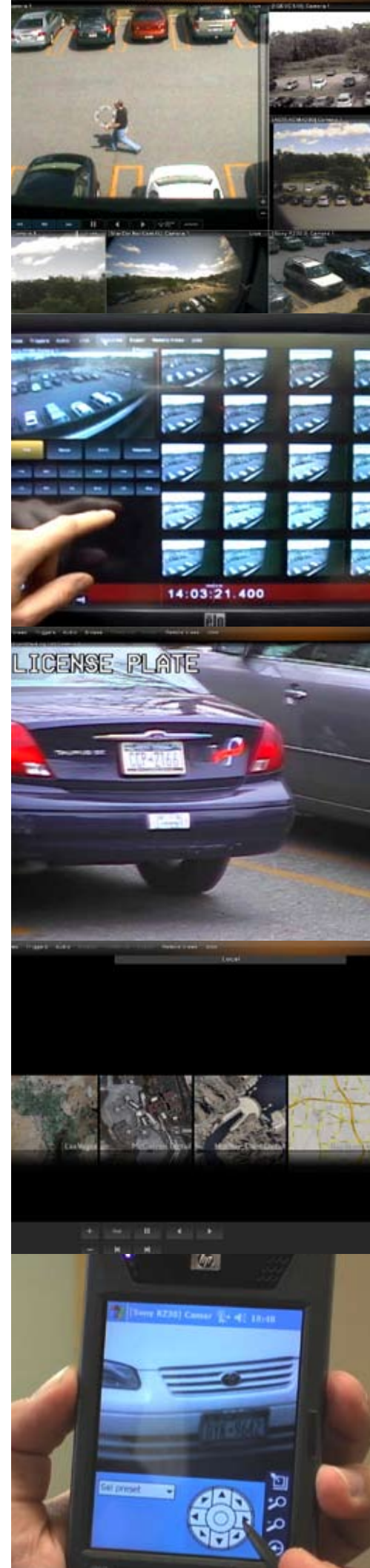
Why Ocularis

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.
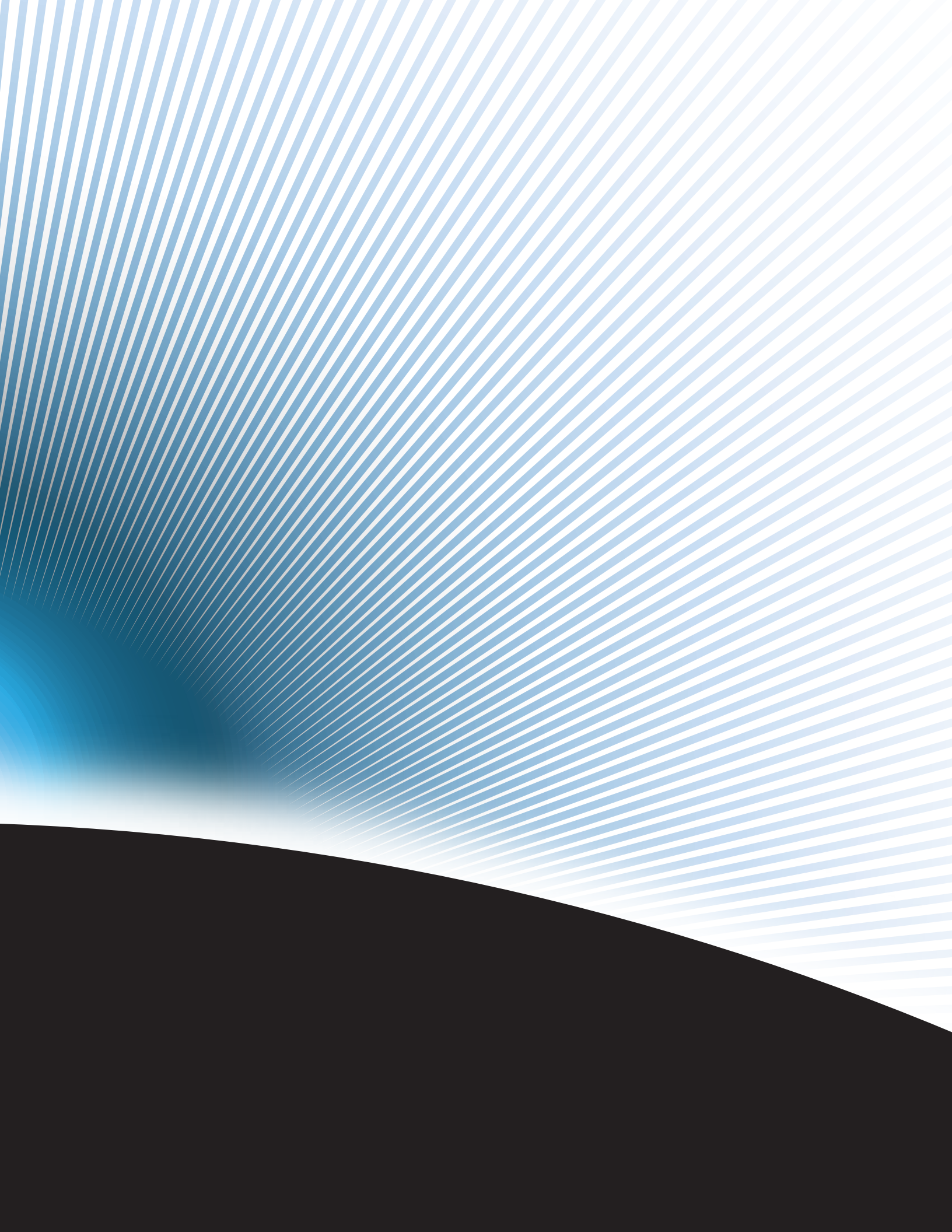
On-Net Surveillance Systems, Inc. offers the industry's most comprehensive IP video surveillance control and management solution. Ocularis is a unified platform with unprecedented levels of user-intuitiveness, open architecture and scalability. Our clients are able to choose 'best-of-breed components; combined in any configuration for any size application, enabling all users to realize significant productivity and performance improvements. With core competencies rooted in both the IT and professional security markets, OnSSI's IP solutions deliver substantial value to thousands of installations globally, in public safety, government, enterprise, industrial, and educational settings. For more information, visit: www.onssi.com.