

Urban Security Solution

Multi-layered solution for public safety and urban security

ELBIT SYSTEMS - ISTAR | SECURITY & TACTICAL EO SOLUTIONS - ELSEC

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Proven track record

As part of Elbit Systems - a world leader in innovative, technology-based systems for diverse defense, homeland security and commercial applications - ELSEC leverages decades of experience, expert methodologies and technological superiority in the field of security electro-optics and software to deliver a turnkey Safe City solution. Built on the four pillars of deterrence using visible sensors; command and control with multi-agency situational awareness; collaboration with inter-agency information sharing and intelligence using advanced analytics, the Safe City concept of operation provides authorities with complete control over the urban environment.

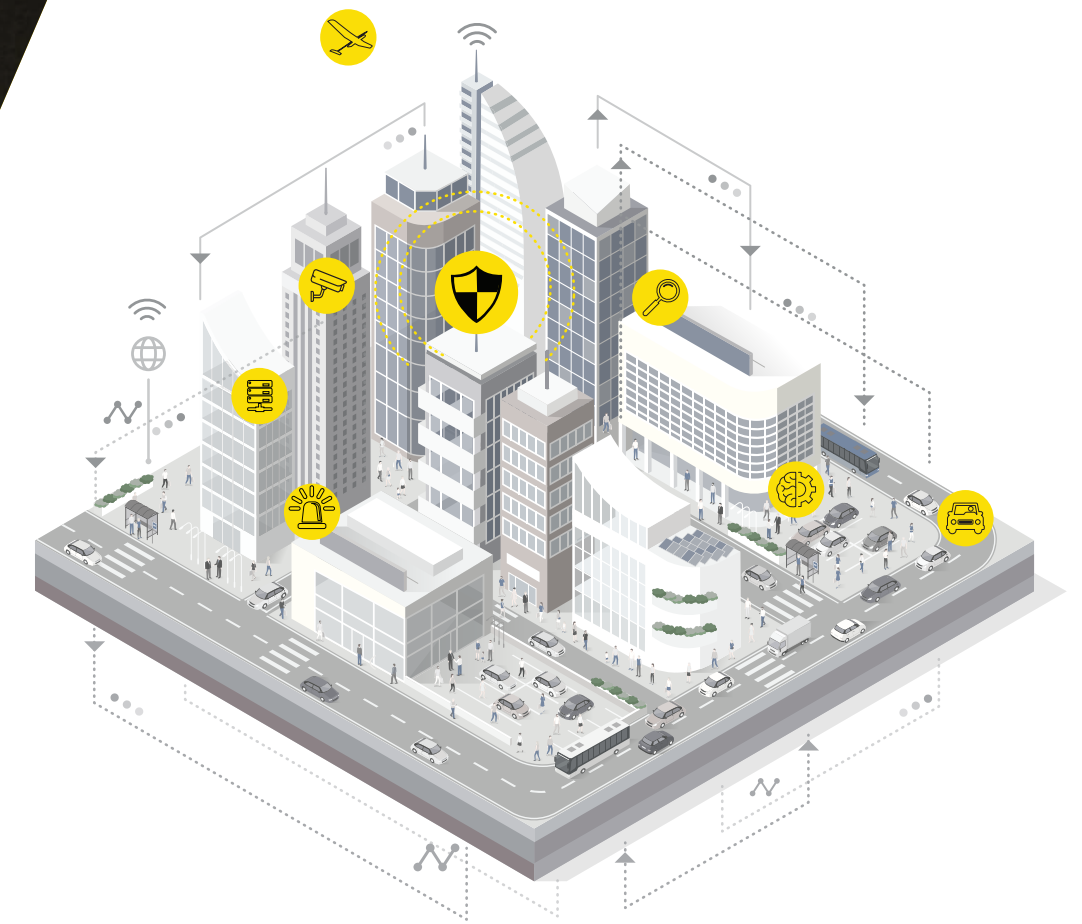
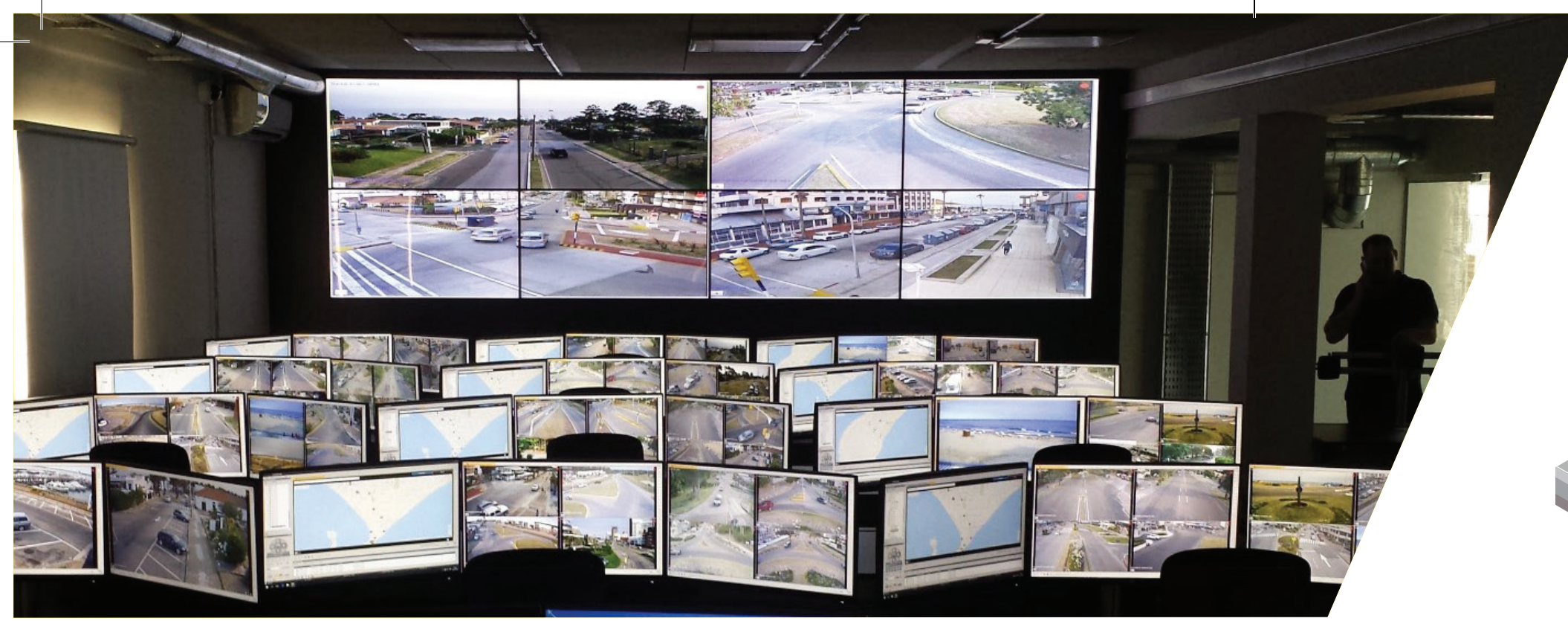
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Public security: An urban challenge

Maintaining public safety and security is one of the major challenges facing urban municipalities today. Cities need effective public safety solutions to ensure the security of residents and tourists, preserve public order and prevent incidents such as theft, vandalism, drug trafficking and transportation disruptions. However, cities often lack synchronization and cooperation between the various emergency entities operating within the city, as well as a unified command and control system that manages day-to-day and emergency situations. Effective urban security solutions must be capable of detecting an event, identifying and classifying it, alerting all related systems and responding accordingly - all in real time.

Comprehensive security approach in a complex urban environment

Elbit Security Systems Ltd's (ELSEC) Urban Security Solution enables municipal authorities, emergency services and law enforcement agencies to reduce crime, urban violence and public disturbances. The Urban Security Solution also helps secure public events and maintain effective crowd control at sporting events, demonstrations, concerts and other large public gatherings.

Using deep learning image analytics technology, combined with media aggregation and rapid alerts, the Urban Security Solution provides a comprehensive situational awareness and advanced situation management solution that facilitates detection, identification and location capabilities for emergency response teams. ELSEC's solution enables first responders to achieve a significant reduction in the reaction time necessary to successfully handle crime-related incidents and emergency scenarios.

Concept of Operations (CONOPS)

Deterrence, control, collaboration and intelligence are the four pillars upon which ELSEC's Urban Security Solution CONOPS is based.

- **Deterrence:** Visible sensors placed in key locations as a deterrent to potential perpetrators
- **Control:** A sophisticated C² system unifies the multi-agency situational awareness picture by integrating data gathered from multiple sources
- **Collaboration:** Sharing of information between multiple agencies on a regular basis facilitates rapid and efficient response when necessary
- **Intelligence:** Advanced analytics allow for real-time and past events investigation

Expert Services

- **Risk Assessment** - Survey the urban environment and understand the challenges
- **CONOP** - Create a research-based Concept of Operations tailored to the city's requirements
- **Integration** - Integrate a wide range of technologies developed both in-house and with 3rd party vendors
- **SOP** - Develop and implement Standard Operating Procedures into the C² System to support operators' decision-making processes, including alerts, information distribution and automatic commands
- **ILS** - Provide Integrated Logistic Support for long-term operations, including a web-based maintenance interface, technical and professional support and operational training

Advanced elements for comprehensive security

ELSEC's Urban Security Solution achieves a high level of urban control by incorporating the latest technologies and operational concepts, using a range of sensing elements, communications capabilities and a fully integrated Command and Control (C²) system to facilitate interoperability between all active forces. Together, these elements provide unified control and smart information management. The solution incorporates:



Camera Coverage and Public Address: Part of the risk mitigation process, cameras are deployed in high crime areas, commercial areas and other crowded locations, providing 24/7 surveillance.



Video Analytics: Using advanced video processing and analysis, a powerful algorithm allows for advanced visual search capabilities and identifies predefined abnormal events in a defined location, maximizing the efficiency of the deployed cameras.



License Plate Recognition System (LPR): A video-based system used to capture and identify vehicle details, LPR allows for both real-time and investigative tracking.



Situational Awareness: The Urban Security Solution delivers real-time situational awareness about events that require operator attention, such as criminal activities, traffic disruption, suspect detection and other points of interest.



Command & Control Center: At the core of the solution, the C2π C² system applies advanced data processing methodologies to connect multiple elements into a common operational situational awareness picture.



Intelligence: The solution employs Open Source Intelligence (OSINT) from social media and Internet services to extract valuable intelligence information and generate actionable intelligence and alerts.



VTOL UAS: Urban surveillance is supported by the most advanced tactical aerial observation systems, including the Da Vinci VTOL (Vertical Take-Off and Landing) Mini UAS (Unmanned Aircraft Systems) and the N-35 VTOL Micro UAS, both fully autonomous multirotor systems that provide rapid access and real-time video transmission from complex locations.



Alarm Systems: The solution integrates with internal security systems, such as CCTV, access control systems, PA and alarm systems, and biometric readers. When an event is detected, the exact location is pinpointed on a GIS map screen, and observation are automatically directed to the detection zone.