

ESEN

**LAND BASED
WIDE AREA
SURVEILLANCE
SYSTEM
(LWAS)**

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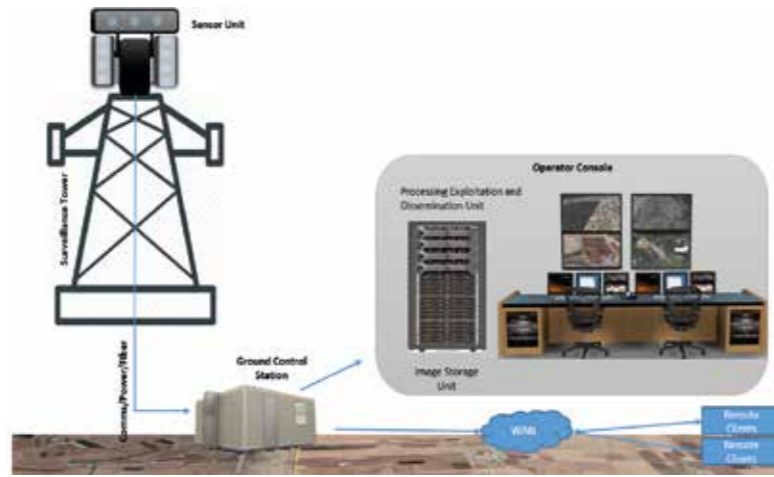


LAND BASED WIDE AREA SURVEILLANCE SYSTEM (LWAS)

- Situational Awareness Over Wide Area Persistent Surveillance
- Day And Night
- ITAR-Free

Applications

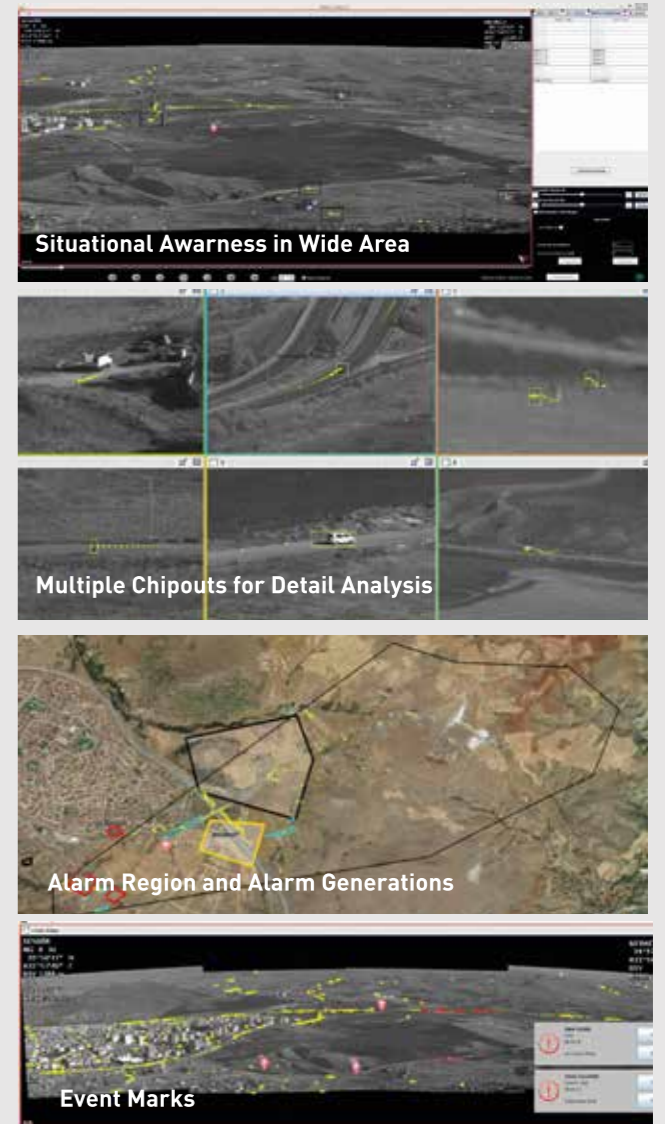
- Border Surveillance
- Airport Surveillance
- Seaport Surveillance
- Coastal Surveillance
- Critical Infrastructure Monitoring
- Critical Facility Protection
- Public Security
- Forensic Analysis
- Anomaly Detection
- Activity Based Intelligence



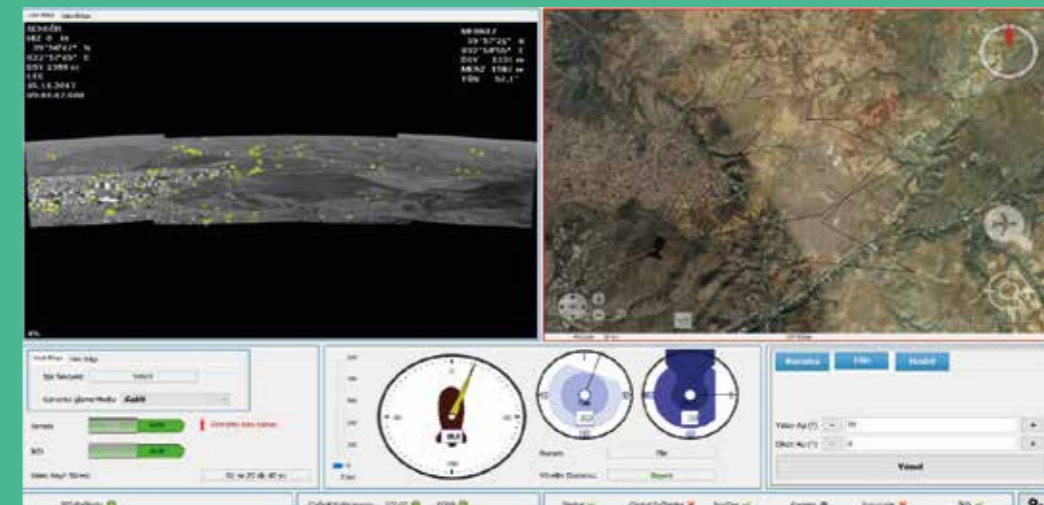
System Components

- Sensor Unit
 - > Uncooled Cameras IR
 - > High Resolution EO Cameras
 - > Motorized Pan & Tilt System
- Processing Exploitation and Dissemination (PED) Unit
- Archive System
- Operator Console Unit

- Instantaneous realtime and tracking on whole coverage area
- Multiple chip outs (areas of interest)
- Independent zoom and pan on each chip out
- Track information and history over the coverage area
- Replay first detection on any area
- User Annotation Features
- Multiple operators can work on different parts of the imagery at the same time
- Pan Tilt Zoom camera for detailed analysis
- Perform searches and forensic analysis on archived images
- Track Filters (speed, track length, region of interest, etc.)
- Event marks and place marks
- Definition of alarm and interest regions



- Provides overall situational awareness
- Day and night persistent surveillance (24/7)
- Enables the analysis of both real-time and archived imagery
- ITAR Free solution



	DAY TIME	NIGHT TIME
Field Of View (Horizontal)	54°	32°
Coverage Area	6 km ² instantaneously 50 km ² via scanning	1,2 km ² instantaneously 13 km ² via scanning
Max Tracking Range	4 km	2 km
Scanning	360°	360°
Environmental	810 G	810 G
Operational Temperature	-30 C + 50 C	-30 C; + 50 C
Detector Type	CCD	Uncooled LWIR
Number of Pixels	29 M Pixels (x3)	640*480 Pixels (x8)
Communication	Data and Video over Fiber Transmission	

LWAS