IMILITE

MULTI-SENSOR, MULTI MISSION
INTEGRATION & EXPLOITATION SYSTEM

IMILITE is a Multi-Sensor Multi-Mission Intelligence Surveillance & Reconnaissance (ISR) System,

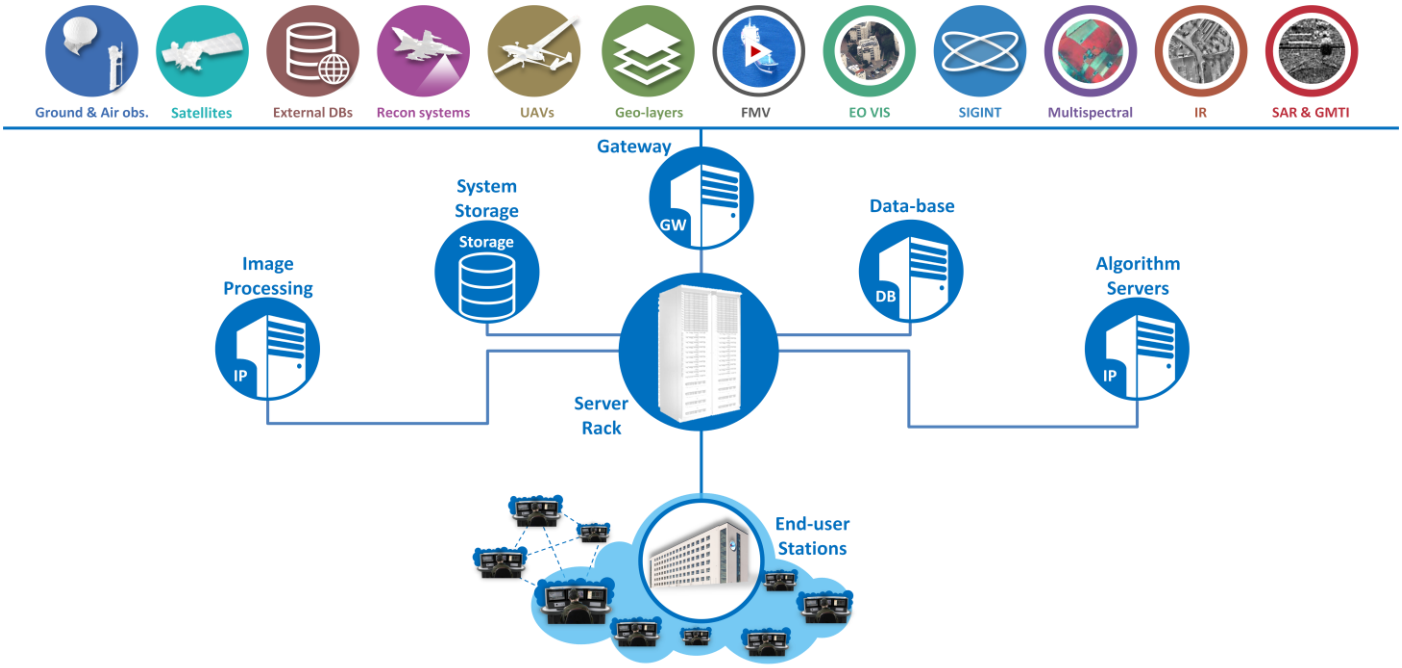
The system receives in real time data from satellites, reconnaissance pods, video from any UAV and other non-geographic sources data. The system creates the advanced infrastructure for the interpretation work and enables the creation of reports and other products for intelligence and targeting.

IMILITE is a combat proven system, operationally used by various customers worldwide form NATO militaries, Latin America and the Far East.

One of the main customers is the Israeli military, who uses it operationally for years. This customer has decided recently to choose the advanced and extended version of IMILITE as the core system for its new generation of IMINT centers.

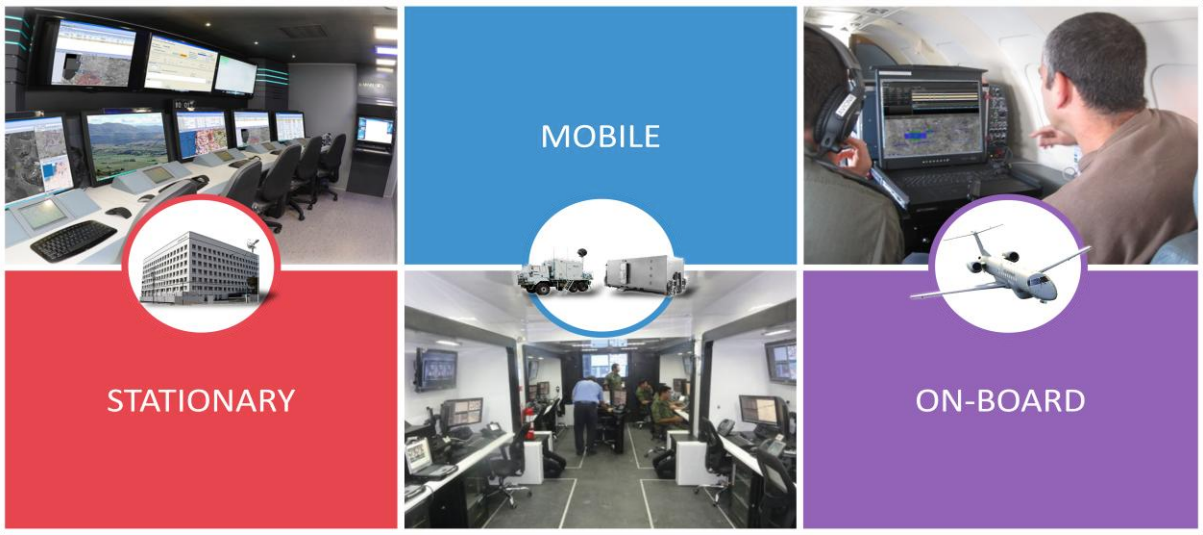
Visiting our facility in Israel will be a good opportunity to demonstrate the system and to understand its unique capabilities.

- The core capabilities of our system are based on the following –Real time automatic geo registration of all sensors.
- Automatic archiving and indexing of all the data received from the sensors. This enables real time retrieval of any data in high resolution.
- The system enables analysis of real time data with archived data in the pixel resolution level based on advanced image processing capabilities.
- The system includes advanced image processing tools – change detection, motion detection, 3D, infrastructure creation, photogrammetric capabilities, a bank of products based on image processing and others.
- Web based capabilities that enable sharing of interpretation tools and archived data in real time and based on geographical and time queries.



The IMILITE System:

- Multiple imagery / non-imagery sensors and data (Satellite, EO, IR, SAR, GMTI and Video) in a unified way
- Simultaneous display and analysis of multiple imagery and data;
- Multiple collection-missions;
- Multiple analysis tasks;
- Multiple (simultaneous) users.



IMILITE is based on a modular and scalable architecture and includes advanced Image Processing algorithms that allow accurate and efficient exploitation of the collected imagery and data. Using these types of sensor data the IMILITE enables combined multi-sensor exploitation to create a comprehensive

situational awareness picture and a unified analysis process, and to provide capabilities for a full IMINT operational cycle:

Creation and management of analysis tasks and Essential Elements of Information (EEIs) for imagery exploitation missions.

Advanced imagery search capabilities based on geo-location, time, and mission parameters to provide workspaces for the analysis tasks.

Geo-registration
Accurate imagery geo-registration that enables accurate target designation and projection of geo-localized object data (GIS) directly on the sensor imagery.

Image enhancements tools
A full set of advanced image analysis tools, including comparative analysis and image enhancements.

Geographical context
Annotation tools that provide creation of analysis results directly over the sensor imagery, that are also saved in the geographical context (based on the accurate geo-registration capability).

Mission Planning and Targeting - Operational aids
Creation of operational aids for mission planning and targeting.

Geo-referenced imagery - Elevation map. ITDs, Imagery and Topographical Data.
Creation of needed ITDs - Imagery and Topographical Data - for Rafael's SPICE weapons family based on geo-referenced imagery and elevation maps capabilities.

Reporting tools that support standard and customer defined formats for all analysis products – images, annotations and textual reports.

Dissemination capabilities – interfaces that allow dissemination of the analysis products to shared databases or directly to product clients, given that connectivity to the external systems is available.