RAFAEL
ADVANCED DEFENSE SYSTEMS LTD.

IMILITE IMINT Center™

Multi-Sensor, Multi-Mission AI Based Exploitation System for Unified IMINT Centers

Visual Data for Actionable Intelligence

Rafael is proud to present **IMILITE** – a first-of-a-kind, Artificial Intelligence based, combat-proven, Imagery Intelligence (IMINT) system, designed to meet the requirements of new Global Security challenges, and support the complete intelligence - operations cycle.

Dramatic changes in the battlefield's nature have led to the understanding that the question of obtaining the right information at the right time is, in fact, the question of immediate access to relevant data in the extensive stream of visual data and the ability to integrate different data sources (visual and non-visual) into a comprehensive situational picture of threats, opportunities, and course of action.

Benefits

- Support multiple real-time operations simultaneously
- Multiple configurations – stationary, portable and on-board; rich-client and web based
- Distribute actionable insights cross-echelons, cross-organizations
- Improve overall productivity - reduced production time, enhanced capacity and quality of intelligence
- Effective sensor-2-shooter cycle
- Zero-efforts integration of sensors, algorithms & applications

Transform Pixels to Mission Critical Information with IMILITE IMINT System

IMILITE provides innovative solutions for exploitation of visual & geo-spatial data, for on-going (real-time) operations, intelligence research, and strategic decision-making processes.

It is a true multi-sensor system integrating all visual collection assets for unified exploitation and providing easy assimilation of legacy and future ISR systems.

IMILITE is based on modular, open and scalable architecture that is configurable to customers' requirements.

It utilizes a shared database, with unlimited cloud based storage, enabling automatic archiving, accurate geo-referencing and the efficient retrieval of data.

With IMILITE, time-consuming processes are conducted automatically, allowing automatic information extraction and enabling image analysts to focus only on relevant data for the mission. IMILITE's workflow is based on a Rules Engine initiating automatic analysis that employs advanced Image processing algorithms such as ATR, CHD, OMTI and more. Additionally, IMILITE provides an advanced algorithms training capability for customers to train their own algorithms.

Analysis management is fully computerized, enabling efficient teamwork and assures acute quality control, advanced authentication procedures and modern streaming and consumption monitoring tools.

IMILITE provides analysts with a set of high-end analysis tools and enables the creation of customizable intelligence products such as ISR reports, mapping infrastructures, accurate coordinates processing and data kits for guided weapons systems, information layers and much more.

Completing the mission cycle, IMILITE supports the dissemination of all products to customers' end-systems, while supporting all required standards and formats.

Main Capabilities

- AI driven workflow - Rules engine Initiating automatic analysis
- Advanced data management providing automatic archiving and fast data retrieval
- Unparalleled image matching technologies for accurate geo-referencing
- Structured Analysis Management for efficient teamwork and quality control
- Next generation analytical tools for modern image analysis
- State of the art Image Processing algorithms for automatic analysis
- Customizable Intelligence products
- Advanced mapping infrastructures production
- Undependable algorithms training
- Micro-services architecture – easy assimilation of new or change existing functionality
- Cloud platform (IaaS) - easily manage and scale out the hardware layer
- Open source technologies for logging, monitoring, tracing, archive, configuration, and map server.

Global Experience

IMILITE is combat proven and is currently in service with multiple militaries operating in versatile battle arenas. Recently, the Israeli MOD selected IMILITE as the IMINT center of the IDF.