

“Light Suite”

1. Brief

"Light Suite" is a multi-mission integrated Electronic Intelligence and Electronic Warfare system.

"Light Suite" enables dominance of a variety of operational scenarios, starting with low-footprint deception of specific threats and selectively increasing impact up to intensive engagement of the entire arena.

The low SWaP "Light Suite" is designed for small platform installations.

The system supports Electronic Intelligence (ELINT) operations and state-of-the-art Electronic Warfare capabilities that are used in various operational scenarios, including Self-Protection and Escort Jamming.

2. System Description

2.1. RWR/ESM/ELINT

The RWR/ESM/ELINT section incorporates several Digital Receiver channels based on a superheterodyne configuration.

This section provides the ability to conduct electromagnetic activity surveillance for intelligence purposes, along with the capabilities to build battlefield situational awareness by detecting hostile sensors that may pose a threat to the platform or friendly forces.

2.2. Electronic Attack

The EA section, equipped with innovative RF-Photonics and DRFM technology, is capable of generating advanced EW techniques. On top of the state-of-the-art DRFM channels, the RF-photonics design allows operation in ultra-wide instantaneous bandwidth and generation of sophisticated multi-target scenarios without relying on the detection of radar signals. Furthermore, our solution enables the simultaneous engagement of multiple emitters in a single channel. The threats we cover vary from legacy radars to modern state-of-the-art imaging, multi-sensor, and LPI systems operating in various spectral bands while utilizing complex waveforms.

The system has been tested in a wide variety of operational scenarios and has proven its efficiency.

2.3. RWR/ESM/ELINT Capabilities

- Situational awareness and real-time creation of Electronic Order of Battle
- High Probability of Interception
- High Sensitivity and Dynamic Range
- Streaming Pulse Descriptor Word
- Selective threats raw data recording for advanced processing capabilities
- Management and control of the Electronic Attack section
- Chaff management control

2.4. Electronic Attack Capabilities

The following techniques can be implemented with or without the detection of the threats.

- CRVGPO
- Range Doppler Cover Pulse
- False Targets
- Phase Modulation
- Amplitude Modulation

2.5. Mechanical Dimension



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