

Lite Shield™

Electronic Attack Pod for Close Protection and Escort Jamming



Gain full electronic attack (EA) protection from a small pod with high ERP

Benefits

- Continuously available EW protection
- Full operational flexibility with no need for pre-planning
- Ultimate solution for sensor-to-shooter scenarios (mobile targets)
- One-pod protection against search radars for entire formation
- Cost-effective solution eliminating need for dedicated EW aircraft
- Low integration cost for aircraft already integrated with Rafael most successful targeting pod, the Litening

Challenge of Evolving Threats

Warfare in the 21st century has moved from conventional warfare to the global war on terror typified by asymmetric combat. Combat scenarios have shifted from large-scale operations to localized operations and from planned scheduled operations to real-time network centric warfare (NCW). Hostile targets are mobile, exposed to retaliatory countermeasures for only a very short time period and are often defended by advanced surface-to-air missiles. During engagement, there is neither time for a well-defined setup of electronic attack components nor time to specify the required sector for the attackers to fly in. The thorough protection of these time-sensitive critical targets (TCT/TST) dictates the need for full operational flexibility.

Lite Shield's Solution

Rafael's Lite Shield implements "close protection" to ensure an immediate, flexible, and constantly available electronic attack capability and response.

Lite Shield is a relatively small pod, based on Rafael's successful targeting pod Litening, equipped with the most advanced EW components. Lite Shield's leading edge technology shields the strike formation from being detected and engaged prior to completing the mission so that the crews can apply their undivided attention and be provided with the necessary amount of time to find and engage the target. Lite Shield is the ultimate solution for the sensor-to-shooter mobile target scenario.



Illustration

Technical Specifications

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| Size and weight | 200 x 40 cm; up to 200 kg |
| Interfaces | 1553, 1760 |
| EW modules | Fully digital, solid state MBAT transmitters |
| Azimuth coverage | 360° |
| Frequency coverage | 2–18 GHz |
| ERP | Higher than conventional self-protection systems |



Cost-Effective Solution for EA Needs

Based on full digital technology, Lite-Shield is equipped with the most advanced EW components. Because it is mounted on an aircraft's targeting pod station, the jamming aircraft can carry out the primary mission and the electronic attack simultaneously, conserving coordination and resources.

Lite Shield enhances air force attack capability without impinging on space for the weapons payload. Implementing the close protection concept, it eliminates the need for a designated escort jamming A/C.

Additional Benefits

- Installed on targeting pod station (does not occupy weapon/fuel tank station)
- Quickly integrated to any platform that is already certified for Litening
- Suitable for other types of platforms in addition to strike aircraft



Land & Naval Division

Tel: (972)73-335-2002 Fax: (972)73-335-4093

E-mail: lnd-mkt@rafael.co.il

HQ Tel: (972)73-335-4714 Fax: (972)73-335-4657

E-mail: intl-mkt@rafael.co.il www.rafael.co.il