

Spyder-SR™ / MR™

Short and Medium Range Mobile Air Defense Systems



There is no escape from the Spyder's web

Benefits

- Engages and destroys a wide spectrum of hostile targets
- Flexible deployment and operation
- Quick response and simultaneous engagement of multiple target
- Large area of protection with high SSKP
- Unique combination of two missile types (IIR and RF)
- Full interoperability between the Spyder-SR and Spyder-MR
- Dual use missiles (air-to-air and surface-to air)

Short and Medium Range Mobile Air Defense Systems

The Spyder short and medium range mobile air defense systems defend large areas against a wide spectrum of threats, such as attack aircraft, helicopters, bombers, cruise missiles, UAVs and stand-off weapons. Both systems provide excellent protection of valuable assets, as well as first-class defense for forces located in the combat area.

State-of-the-Art Missiles

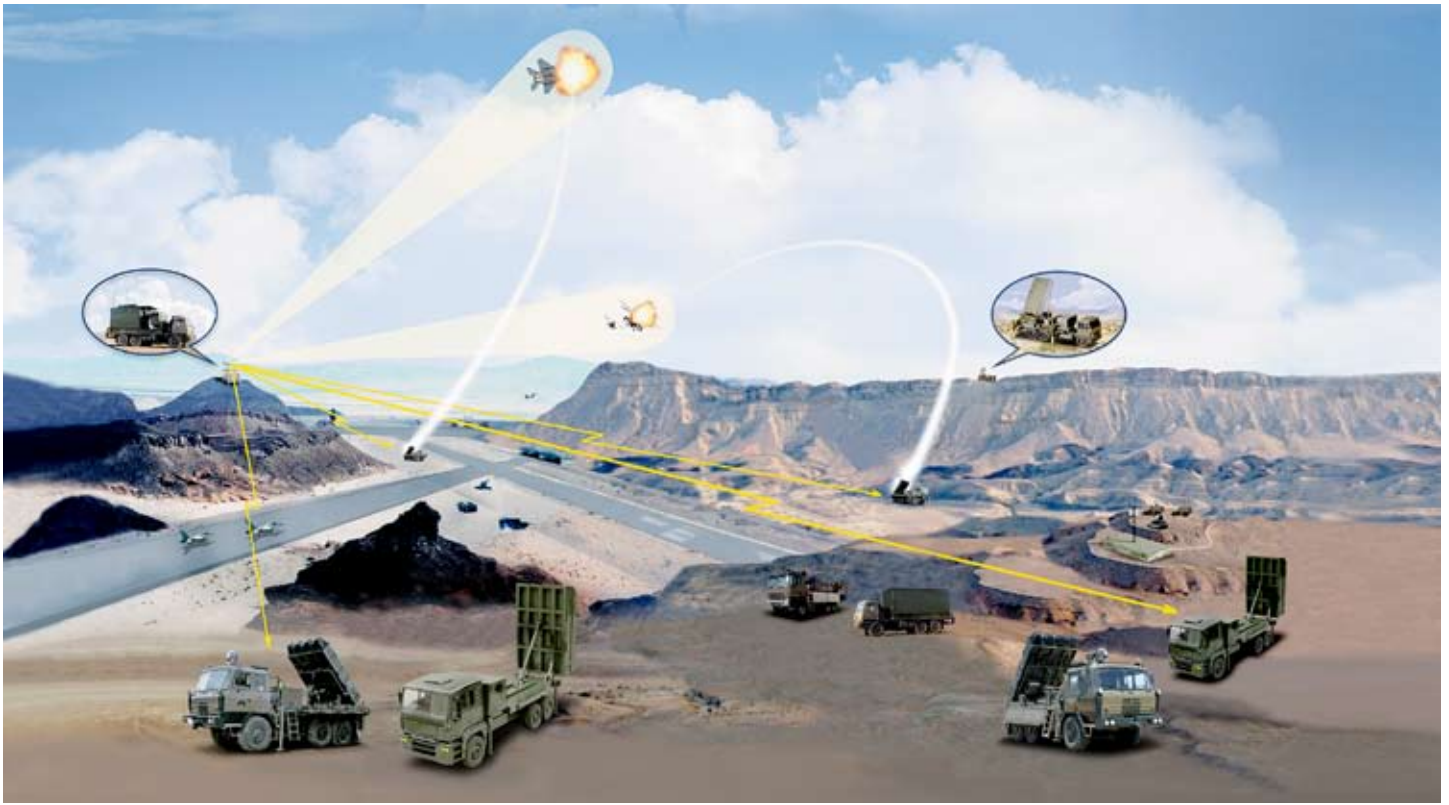
The Spyder systems incorporate the most advanced, proven performance air-to-air-missiles: the Python-5 dual waveband imaging infra red (IIR) missile and the Derby active radar beyond visual range (BVR) missile. In the Spyder-MR the missiles are equipped with a booster assembly. The same missiles can also be used for air-to-air missions.

Operational Performance

The Spyder-SR's slant launching provides quick-reaction, Lock On Before Launch (LOBL) and Lock On After Launch (LOAL) capabilities, low level protection, whereas the Spyder MR offers medium range target interception through vertical launch. Both systems enable 360° launch within seconds of the target being declared hostile and provide all-weather, multi-launch, net-centric capabilities.

The Spyder ADS features 360° engagement capability, advanced ECCM capabilities, electro-optic observation payload, wireless data link communication and full missile commonality with the air-to-air missiles.

The Spyder's design is based on a network-centric approach, offering significant operational flexibility.



Spyder-SR



Spyder-MR

Spyder-SR/MR System Configuration

The Spyder-SR/MR system is an innovative combination of advanced C4I, high performance radar and Rafael's state-of-the-art missiles. Most of the systems elements are the same in both versions and a standard Spyder battery includes:

- Truck-mounted command and control unit (CCU) - (radar sensor unit is mounted on the CCU in Spyder-SR)
- Truck mounted Radar Sensor Unit (RSU) (Spyder-MR)
- Toplite EO sensor
- Missile firing units (MFU) with communication equipment
- Missile supply vehicle (MSV)
- Field service vehicle (FSV)

Technical Specifications

	Spyder-SR	Spyder-MR
Intercept range	Over 15 km	50 km
Altitude	20 m – over 9 km	Over 16 km
Launch	Slant	Vertical
Modes of operation	LOBL LOAL	LOAL

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