

RAFAEL Advanced Defense Systems Ltd.

SAMSON 30 mm MKII RWS



Advanced Remote Weapon Station (RWS), a member of Samson RWS Family, designed for high performance and survivability with **SPIKE LR** – Long Range Multi- Purpose Tactical Missile system.

BNET SDR FAMILY



BNET is an advanced Broadnet IP Mobile Ad-hoc Network Software Defined Radio (SDR) for tactical operations and **TacMAX** - family of base, relay and mobile stations delivers high quality broadband video, data and voice services to ground forces. With unique high spectrum efficiency, as well as cognitive capabilities, the BNET offers exceptional connectivity, enhancing the exchange of information on the battlefield. Providing simultaneous voice, data and video communication, BNET is a major breakthrough in capacity, scalability, low latency and quality of service. (at **ASTRA**)

TROPHY HV- Situational Awareness and Active Protection Systems



The world's only combat-proven, operational Active Protection System for armored vehicles.

The Trophy is a situational awareness and active protection hard-kill system that operates in three major stages: Threat detection and threat tracking followed by hard-kill countermeasure (Multiple Explosive Formed Penetrators – MEFP), activation and threat neutralization. The neutralization process takes place only if the threat is about to hit the platform.

Merkava 4 tanks integrated with Trophy active protection systems are presently being deployed in combat areas along Israel's borders.

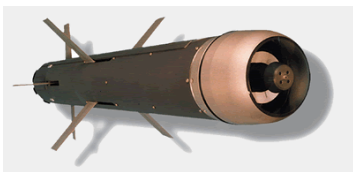
SPIKE FAMILY



Multi-Purpose, Tactical, Guided-Missile Systems (including Helicopter Simulator)

The Spike Family consists of missiles suited for several platforms, multiple ranges and a variety of targets. The missiles in this family have sophisticated electro-optic CCD or IR sensors for operation day and night and in adverse weather conditions and a tandem warhead.

SPIKE MR +SIMULATOR (at BDL)



The Spike-MR is a lightweight, man-portable, Fire and Forget, multi-purpose Medium Range (MR) missile system, a member of Spike Family, with a range of up to 2,500 meters.

SPYDER SR/MR



Family of Short and Medium Range Air Defense systems using the i-Derby and Python-5 missiles. designed to engage and destroy a wide spectrum of threats, such as attack aircraft bombers, cruise missiles, UAVs, UCAVs' stand-off weapons and precision guided munitions.

PYTHON-5 - Full sphere air-to-air IR missile and air defense missile.



Python-5 is a fifth generation air-to-air missile and the latest member of the Python family. The missile provides the pilot engaging an enemy aircraft with a revolutionary full sphere launch capability. Python-5 can be launched from a very short range to beyond visual range with greater probability of kill and excellent resistance to countermeasures.

I-DERBY - Beyond-Visual-Range, SDR seeker, air-to-air and air defense missile



Rafael's Derby is a fully developed Beyond Visual Range (BVR) air-to-air missile. The missile offers excellent performance and maneuverability in both medium and short range engagements. The missile is also offered in an air defense configuration.

I-Derby ER

New generation of Innovative active radar air-to-air extended range missile. The missile incorporates the innovative I-Derby software-defined RF seeker, combined with a unique increase of kinematic performance, with ranges of up to 100 km.

PROTECTOR



The Protector is an integrated naval combat system with anti-terror mission module payload including sensors and weapon systems, based on unmanned, autonomous, remotely controlled surface vehicles. Highly maneuverable and stealthy, the Protector can conduct a wide spectrum of critical missions, without exposing personnel and capital assets to unnecessary risk.

The search radar and the Toplite electro-optical (EO) pod enable detection, identification and targeting operations. The weapon systems are based on Rafael's Typhoon remote-controlled, stabilized weapon station, capable of operating various small caliber guns. The highly accurate, stabilized weapon station has excellent hit-and-kill probability

C-DOME



A naval point defense system, extending the Iron Dome Counter-Rocket, Artillery and Mortar defense system to the maritime domain, to protect surface vessels from a wide range of threats, including ballistic trajectory and direct attack weapons.

SEA SPOTTER -E/O Naval Staring, Detection and Tracking System

The sea spotter enables situational awareness and the automatic, passive detection of sea skimming missiles, air-to-surface smart bombs, fast strike aircraft, helicopters, marine vessels and rubber boats.

The sea spotter has a low false alarm rate due to staring detector structure (3-5 μ) and unique image processing algorithms such as: "track before detect" and "multiple target tracking".

TOPLITE EOS – Highly Stabilized Multi-Sensor Optronic Payload



Electro-Optical Surveillance, Observation & Targeting Day/Night System for a wide range of flexible and demanding missions, from law enforcement observation through surveying and fire control to missile targeting. The highly reliable Toplite is designed for maximum performance in minimum space and can be easily installed and maintained on aircraft and helicopters, naval vessels and vehicles.
