

## Technical Specifications

	Spike MR	Spike LR	Spike ER
Effective range	2.5 km	4 km	8 km
Weight - Missile in canister	13.5 kg	13.5 kg	34 kg
Weight of launcher	13 kg (TS, CLU, Tripod, Battery)	13 kg (TS, CLU, Tripod, Battery)	Helicopter - 55 kg Vehicle - 30 kg
Mode of operation	Fire & Forget	Fire & Forget Fire, Observe & Update Fire & Steer	Fire & Forget Fire, Observe & Update Fire & Steer

### Spike Tactical C4ISR System

The Spike C4ISR (Tycoon) is an interactive, easy-to-use system for the commander in the field. The Spike C4ISR provides a common and simple language between various forces. It increases force capability and enables the quick and efficient closure of the sensor-to-shooter cycle between reconnaissance and assault forces. This tactical system improves fire management and minimizes "friendly fire". It can be integrated with any communication network.



### Capabilities

- Mission planning and navigation
- Effective communication between forces
- Fire management and control
- Target acquisition and allocation
- Can be used for netcentric warfare (C4I)



## SPIKE Family™

### Multi-Purpose Precision Weapon Systems

Gain surgical precision and maximum survivability on all battlefields



## Spike MR

### Precision Missile System for the Infantry

The Spike MR is a lightweight 3<sup>rd</sup> generation, man-portable missile system. The system is specially designed for urban warfare, traditional warfare, ground support and special missions with maximum effectiveness.

The Spike MR operates in Fire & Forget mode for autonomous medium range target engagement of up to 2.5 km.

High hit probability against stationary and moving targets is achieved by means of an advanced electro-optic CCD/IIR seeker, sophisticated tracker and a highly precise guidance system. The Spike MR system consists of a round (missile in canister) and a firing post: Command Launch Unit (CLU), Thermal Sight (TS) and tripod.



#### Benefits

- High survivability
- Pinpoint accuracy
- Man-portable
- Operational flexibility
- Low life cycle cost



## Spike LR

### Precision Missile System for the Infantry, Special Forces and Light Combat Vehicles



The Spike LR is a 4<sup>th</sup> generation lightweight, Fire & Forget Plus, multi-purpose missile system with a range of up to 4 km. On top of the basic Fire & Forget mode of operation, a fiber optic data communication link provides the gunner with the unique ability to attack hidden targets, update or switch to a more valuable target after launch, achieve pinpoint precision, avoid friendly fire,

perform surveillance, damage assessment and attain real-time intelligence. Spike MR and Spike LR share the same Command Launch Unit (CLU), Thermal Sight (TS) and identical missile technology. Both of them share many of the same benefits as well, including high survivability, pinpoint accuracy and low life-cycle costs. Both of them are man-portable and can be fired from enclosure.

#### Benefits

- Pinpoint accuracy at long ranges
- Abort mission capability
- Enables real-time surveillance
- Ability to hit concealed targets
- High hit / kill probability
- Lofted trajectory - Top attack



## Spike ER

### Multi-Purpose Missile System for Combat Vehicles, Helicopters and Naval Vessels

The Spike ER is a multi-purpose, multi-platform, missile system for ranges of up to 8 km. This missile is Fire & Forget and has a Fire, Observe & Update capability. It shares all the benefits of the Spike LR system including the ability to update or switch targets after launch, avoid friendly fire, perform surveillance and damage assessment and attack hidden targets. However, it was designed

to be mounted on combat vehicles, helicopters and naval vessels. The Spike ER System also has a Fire & Steer mode in which the operator can launch the missile without pre-locking onto the target and steer it manually towards the target (LOAL).

The Spike ER can also be supplied with various warheads, especially suited to urban and anti-terror warfare and low intensity conflicts.



#### Benefits

- Helicopter mask-down - High survivability
- Non-Line-Of-Sight target capability
- LOAL capability
- Minimum collateral damage and battlefield damage assessment
- Very high hit / kill capability for all ranges
- Pinpoint urban warfare capability



## Spike Family Commonality



The members of Rafael's 4<sup>th</sup> generation multi-purpose missile family share many of the same features that combine to meet the challenge presented by enemy forces. They have sophisticated electro-optic CCD / IIR sensors for operation during the day, at night and in adverse weather conditions. Their lofted trajectories enable the warhead to hit the target at its most vulnerable part with pinpoint

precision.

All of the Spike Family members have a low Life Cycle Cost, especially due to high commonality between members, and high reliability, ease of use and Built-in-Test. Full Integrated Logistic Support package (ILS) is available for the Spike Family.

#### Typical Spike Targets

- Tanks
- Light armored vehicles
- Bunkers
- Urban structures