RAFAEL
ADVANCED DEFENSE SYSTEMS LTD.



SMART AND TO THE POINT.

SPICE™

Smart, Precise-Impact and Cost-Effective Guidance Kits

Precision Strikes in a GPS-Denied Environment

The highly sophisticated and combat-proven SPICE Guidance Kits address the needs of today's increasingly complex battlefields. They convert 1000 lb and 2000 lb class general purpose and penetration warheads into precision, stand-off strike weapons that deliver multiple simultaneous attacks with pinpoint accuracy in a GPS-denied environment.

Benefits

- Mission success in GPS-jammed arenas
- Autonomous stand-off capability
- High lethality and low collateral damage
- Day, night, and adverse weather operation
- Low aircrew workload





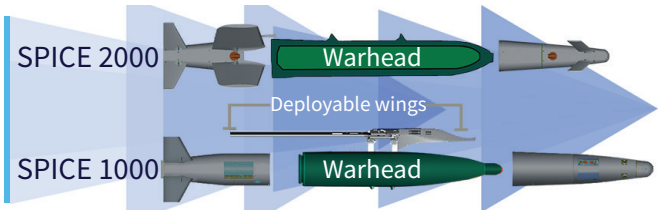
GPS-Independent

Utilizing an EO Seeker with today's most advanced scene-matching algorithm, SPICE enables fully autonomous attack missions with pinpoint accuracy and minimal collateral damage, independent of GPS availability.

Mission planning in the air or on the ground uses the target's imagery, hit angle and azimuth, and fuse delays to generate a mission. Hundreds of missions are stored on a weapon mission cartridge, which is loaded onto the weapon prior to take-off. The pilot allocates a mission for each weapon before release outside the threatened area. The system performs a midcourse trajectory based on its navigation system. When approaching the target, the weapon starts its target acquisition, based on the scene-matching algorithm. After successful completion of the scene-matching, SPICE autonomously homes in on the target at precisely the pre-defined impact angle and azimuth.

Fielded, Combat-Proven & Ready Now

Extensively battle-proven by the Israeli Air Force, SPICE is in service with leading air forces around the world. A common interface and sophisticated software simplify aircraft integration. The weapon is easily operated from single and dual-seater fighter aircraft.



Main Capabilities

- Fully autonomous – "Fire & Forget"
- Tactical stand-off range
- Advanced Automatic Target Acquisition homing (ATA) using sophisticated scene-matching algorithm
- Pinpoint hit accuracy
- Tactical flexibility in trajectory (direction and angle of attack)
- Multiple missions per sortie
- Insensitive to GPS jamming
- Mission planning on ground or onboard

Technical Specifications

Stand-Off Range	SPICE 2000 - 60 km SPICE 1000 - 125 km
Warheads	1000 lb or 2000 lb Blast fragmentation or penetration
CEP	3 meters
Operation	Day, night, and adverse weather

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