

X-GUARD™

Fiber-Optic Supersonic Towed Decoy



The EW Solution for the End-Game Phase of Air Defense Systems

Benefits

- Offboard, retractable, fast-deploy, low-drag, lightweight
- Lures air defense systems away from aircraft
- Increases missile's miss distance dramatically
- Increases mission success rate and aircraft survivability
- Supports 4th generation aircraft flight envelope
- Multiple use of single decoy lowers procurement quantities, life cycle costs
- Easily adapted to any operational aircraft
- Mountable to air-to-air or air-to-ground weapon stations
- Standard process for integrating X-GUARD with aircraft's embedded EW system

In today's increasingly complex battlespace environments, effective protection against air defense systems is critical for fighter aircraft survival. Though threat detection capabilities are improving, there is a growing need for active EW missile defense.

X-GUARD™ is a cutting-edge towed decoy solution for defeating advanced tracking radar, including monopole and Lobe-On-Receive-Only (LOBO) radar types. Towed behind the fighter aircraft, X-GUARD is deployable and retractable mid-flight. The decoy can be integrated with the EW suite of any platform as a high-value active suite component.

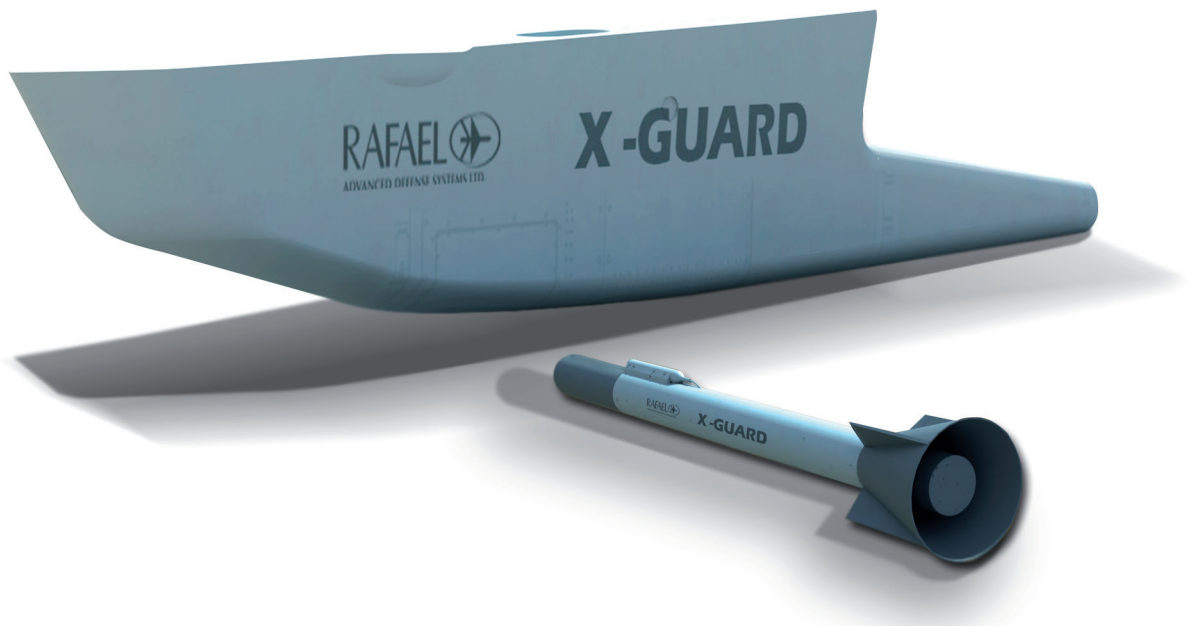
X-GUARD can be deployed either when the aircraft approaches a threatened area or upon detection of an imminent threat.

Deployed far from the aircraft, the decoy can be reused multiple times, making it exceptionally cost-effective, as well as preventing enemy inspection of the technology.

In the retraction phase, the decoy is returned to its position under the aircraft's wing and re-connected with the pylon.

Low-drag and lightweight, X-GUARD can be used in all operational missions to counter air-to-air and surface-to-air missiles.

The system is certified to 4th generation fighter flight envelope, from low level to flight ceiling, and from subsonic to supersonic velocity.



Technical Specifications

Dimensions	L: 650mm D: 80mm Stabilizer Diameter: 169mm
Weight	Decoy: 7kg Pylon and Wiring: 60kg Total System: 67Kg
Flight Envelope	Alt: 50,000 feet Mach: 1.6 Acceleration: 9g Deployment: 0.7–0.9 Mach
EW System Communications	Fiber optic wire + high power supply
System Recovery	Retractable, returned to pylon

Features

- High ERP, solid state active antenna array
- Fully integrated with aircraft's embedded EW system
- Certified to 4th generation fighter flight envelope
- Maintains both electrical and fiber-optic continuity throughout flight
- Advanced Reel-out/Reel-in mechanism



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