

Jam-Air™

A Directional IR Countermeasure (DIRCM) System



A bright solution for dark situations

Benefits

- Highly effective against Man Portable Air Defense Systems (MANPADS) and anti-tank missiles
- Flexible architecture
- Extremely lightweight
- Can be used with different Missile Approach Warning Systems (MAWS)
- Easily installed

High Radiant Intensity

Jam-Air is a Directional IR Counter-Measure system (DIRCM) for helicopters and light aircraft. The system consists of an accurate dual axis gimbal, a powerful arc lamp, and a flexible control unit.

The high power electronic unit is detachable from the jamming turret and enables modular installation on different helicopters.

Jam-Air is the most affordable protection system against MANPADS and anti-tank missiles.

Operational Concept

The Jam-Air system is triggered and pointed towards the incoming missile by the Missile Approach Warning System.

When in position, the Jam-Air system transmits a modulated IR beam (jamming code) towards the incoming threat.

The jamming pattern, received by the threat's seeker, is then interpreted to a dominant target-like signal of a helicopter in a false location and thus, the missile is diverted away from the platform.



Visible light is seen for tests purposes only, real jamming is not seen

Technical Specifications

Azimuth coverage	360°
Elevation coverage	+90° to -40° (in turret axis)
Jamming Range	Proven over 5 km
Total weight	27 kg
Power requirements	28 VDC, 115V 400 Hz
MTBF	1200 operational hrs

Jam-Air is an operational system on first line helicopters, in production and available now.



Features

- Fast and accurate gimbal system ensuring pinpoint engagement
- Fully automatic - preventing additional workload in the cockpit
- Open structure - system enables loading additional jamming codes against new threats
- Covert – no visible emission during engagement
- Can be installed in any orientation – top, side, or bottom of the helicopter

RAFAEL 
ADVANCED DEFENSE SYSTEMS LTD.

Naval & EW Directorate
Missile and NCW Division
Tel: (972)4-990-8503 Fax: (972)4-990-6257
E-mail: missile_mkt@rafael.co.il
HQ Tel: (972)4-879-4714 Fax: (972)4-879-4657
E-mail:intl-mkt@rafael.co.il www.rafael.co.il