



IRON FIST

ACTIVE PROTECTION SYSTEM

Detect, track, neutralize



KEY CHARACTERISTICS:

- Minimal integration requirements, small and lightweight
- Two layers of protection with soft kill electro-optical jammer and hard kill interceptor
- Modular design is compatible with various platforms
- Protects against anti-tank rockets and guided missiles, kinetic energy and high explosive anti-tank rounds
- Laser-based jammer effective against second generation anti-tank guided missiles
- 360 degree coverage, high elevation angle
- Two independent sensing techniques: radio frequency (RF) and passive infra-red (IR)
- Suitable for open terrain and complex environments

Iron Fist is an advanced active protection system (APS) that provides enhanced survivability of platforms ranging from light vehicles to heavy armored fighting vehicles (AFVs).

Designed to protect soldiers and vehicles from anti-armor threats, the Iron Fist rapidly and reliably detects, tracks and neutralizes anti-tank rockets (i.e. RPG), anti-tank guided missiles (ATGMs), kinetic energy and high explosive anti-tank (HEAT) rounds with two layers of active protection.

The Iron Fist is a full spectrum active protection system with soft and hard kill counter-measures

For optimal reliability, the system utilizes two independent sensing techniques: radio frequency (RF) and passive infra-red (IR). Upon a threat warning, a long-range soft kill electro-optical jammer engages the threat's tracking and sensing behavior. If needed, a close-range hard kill interceptor physically destroys or deflects the threat a safe distance from the defended platform. The blast interceptor effectively destroys or deflects an incoming threat with minimal fragmentation, minimizing collateral damage or injury to nearby personnel.

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General Dynamics Ordnance and Tactical Systems and Israel Military Industries (IMI) are teamed to provide vehicle integration and production of the Iron Fist. The Iron Fist has successfully performed a full series of field interception tests against all threat types, including on-the-move and cluttered urban environment in both light and heavy vehicle configurations.

ADDITIONAL INFORMATION

Full spectrum Active Protection System with soft and hard kill counter-measures

- Can be used on light vehicles to heavy AFVs
- Protects against the full spectrum of threats: anti-tank rockets, ATGMs, HEAT and kinetic energy tank rounds
- Dramatically reduces kinetic energy rod penetration in heavy vehicles to absorbable level by breaking or deflecting the angle of attack of the oncoming threat
- Protection against short range anti-tank rockets in open and urban environments
- Wide angle protection with minimal weight and integration requirements

Safety Measures

- Blast Interceptor assures minimal collateral damage
- Hardware and software mechanisms prevent false fire
- Insensitive Munition (IM) blast warhead
- Dual-safe fuze and fail safe initiation

Situational Awareness

- Ability to report launch point of threats
- Small arms burst identification
- 360 degree day and night panoramic vision

System Design

Open architecture enables integration with additional sensors, countermeasures and counter fire systems.

