IRON FIST

Active Protection System

PROTECTION SYSTEMS | ACTIVE PROTECTION SYSTEMS

General Dynamics Ordnance and Tactical Systems in cooperation with Elbit Systems takes active protection to the next level with the new Iron Fist (IF) Active Protection System (APS). IF is a generic add on configuration applicable for numerous armored platforms from light 4x4 vehicles up to medium and heavy Armored Fighting Vehicles (AFV).

The system's hard-kill concept is based on intercepting the threat by launching a small warhead and initiating it at a safe distance from the protected platform, at a precisely calculated moment, and defeating or destructing the threat through a shock-wave effect.

IF provides 360-degree protection coverage for close range scenarios in both open terrain and urban environments. Through its two sensing techniques – a search-and-track radar and a staring infrared sensor – the system offers a unique Situational Awareness capability with robust and reliable threat detection, accurate trajectory prediction as well as short reaction time in all terrain environments. The revolutionary design of the IF minimizes the dimensions of the APS while maintaining combat efficacy and force protection.

The system's scale facilitates rapid integration onto the full range of combat vehicles, and its dimensions open new possibilities to upgrade legacy platforms where size, weight and power constraints are a challenge.

MOST CAPABLE ACTIVE PROTECTION SYSTEM TO DEFEAT THE WIDEST ARRAY OF THREATS

- Easy Integration
- Minimal SWAP on Vehicle
- Open Architecture and Modular Design
- Reliable Detection

GENERAL DYNAMICS
Ordnance and Tactical Systems

Elbit Systems

IRON FIST

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OPERATIONAL CHARACTERISTICS

- Protection against ATRs and ATGMs
- Short reaction time for short range ATR engagement
- 360° coverage, high elevation angle
- Two independent sensing techniques (RF and IR)
- Operational in both open terrain and urban environments
- Situational Awareness based on system's IR and radar sensor suite
- Hostile fire detection (HFD) and small arms ammunition burst detection

INTEGRATION FEATURES

- Lightweight (220lbs per side, 551lbs for overall platform)
- All-in-one pre-calibrated unit
- Bolt on, no penetration to vehicle structure
- Low power draw from the vehicle
- Small dimensions and low silhouette

SAFETY

- Small blast interceptor, minimal collateral damage
- Insensitive munition (IM) explosive
- Hardware and software mechanisms for preventing false fire
- Fuzing redundancy and fail-safe initiation

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