

# Iron Fist Active Protection System

High-performance active protection system  
for both the symmetric and the asymmetric warfare



**Elbit Systems™**

Land



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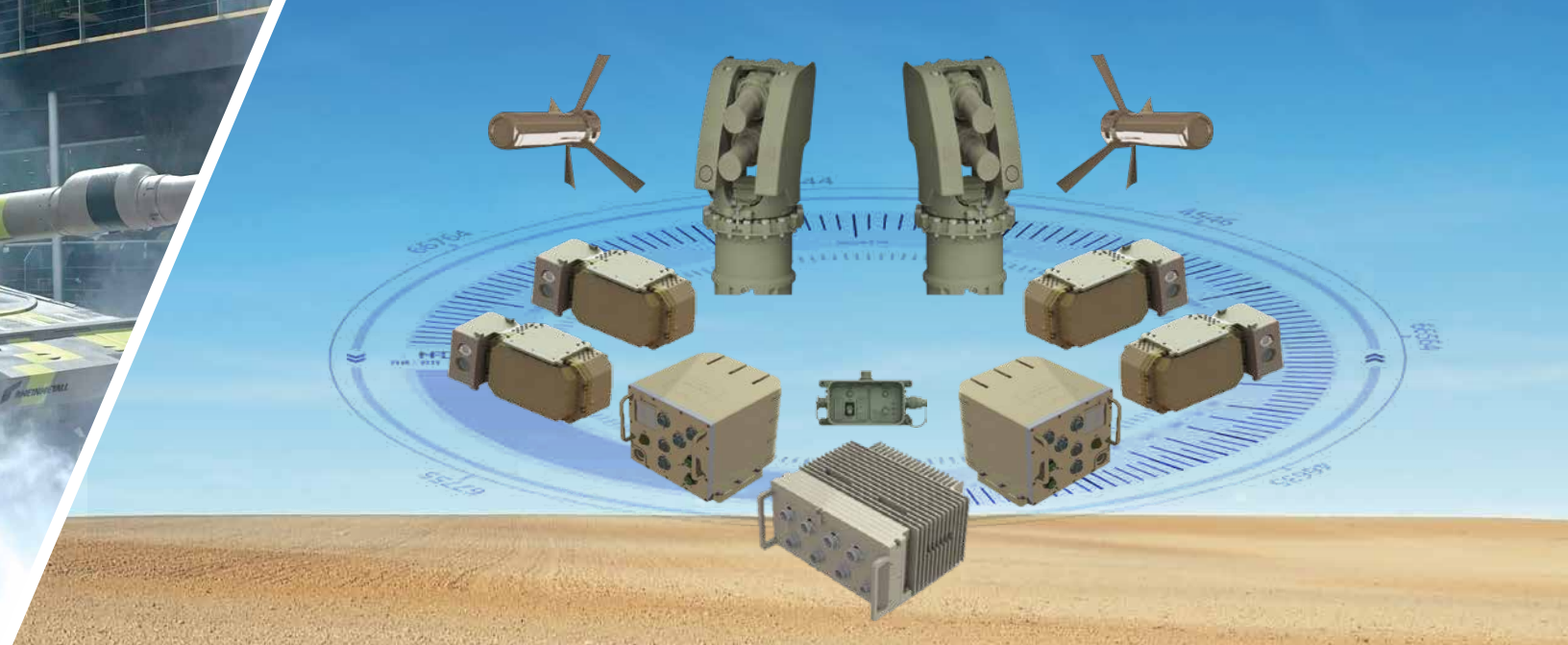
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Iron Fist Active Protection System (APS) delivers high-performance protection against anti-tank threats while increasing the survivability of the protected platform or vehicle. The system enables the interception of anti-tank threats by using precise-detection technologies and capabilities to detect, identify, classify and respond to hostile fire threats, in various engagement scenarios, without endangering the operators or harming the defending platforms thus enabling the platform to fulfil its mission. Iron Fist APS utilizes a blast interceptor to defeat shaped-charge threats without initiating their warheads, and also dramatically reduces the residual penetration of Kinetic-Energy (KE) tank round rods.

## A game changer in armored vehicle protection

Iron Fist breaks the survivability paradigm of a direct relationship between threat levels to vehicle and ballistic armor weight. The system provides highly effective protection and enhances the survivability of AFVs and MBTs without adding massive weight or hampering the crew's operational capabilities.





## Precision detection and tracking capabilities

The Iron Fist sensor suite provides unique detection, classification, and hostile fire source location against all types of anti-armor threats. The sensor suite uses two sensing technologies, radar and optics, for quick, robust, and accurate detection and provides reliable data with a negligible number of false alarms. It automatically detects and identifies a broad range of threats, including short range RPGs, recoilless rifled ammunition and anti-tank guided missiles (ATGMs). For heavier platforms, the system also intercept tank rounds such as HEAT and KE APFSDS. The sensor suite can handle simultaneous, multi-threat scenarios and provides the crew with accurate counterattack capabilities against the launching source.

## Threat neutralization

The computerized control unit receives sensor data and calculates the optimal interception point and time for a successful threat neutralization. The Iron Fist APS utilizes a blast interceptor for an effective and safe interception process. The small blast warhead is initiated at a safe distance from the defending platform and counters the threat by producing shock-wave effect at a precisely calculated location and time. This results in the destruction of the shaped-charge warhead threats without the initiation of the warhead and the creation of a jet

formation, with minimal residual effects and the creation of an angle of attack to the incoming KE/APFSDS tank round for dramatic reduction of its penetration effectiveness.

## Best-in-class SWaP

The Iron Fist APS is specifically designed to accommodate the constraints of lighter platforms and can be integrated on a wide variety of combat vehicles. The light and compact units offer easy integration, maintenance and calibration. It can be installed as an add-on to a pre-prepared platform without adding to the vehicle's major weight burden and has a minimal impact on the vehicle's external silhouette.

## On-board systems integration

The Iron Fist APS fully integrates with existing systems such as battle management systems (BMS), fire control systems (FCS) and Elbit Systems' 'see through armor' IronVision™ technology. Iron Fist APS does not impede or limit the range of operations of these critical systems and effectively augments their functionality. The sensor suite enhances the platform's situational awareness capabilities while providing 360° day/night surveillance sight and hostile fire detection (HFD), from its sensors, up to gunshot fire and small arms burst detection.

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## Key Benefits

- Effective against all types of anti-armor threats such as ATR/ATGM/tank rounds (including HEAT and KE)/drones & UAS
- Miss-to-kill concept - **Minimal residual penetration to the defending platform**
- **Minimal SWaP** - Lightweight, small form with minimal burden on vehicle
- Modular, compact design compatible with various platforms
- **Defeats multiple/salvo threats**
- **Minimal collateral damage**
- **Minimal threat range**
- **Open architecture**
- **Cost-effective 360° coverage for sight surveillance and situational awareness**
- **Enables open hatch operations**
- **Easy integration** - quick mounting and dismounting
- **Optional soft-kill laser-based jammer** against 2<sup>nd</sup> Gen. ATGM



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