

TROPHY™ APS

The World's only Operational & Combat Proven APS for Combat Vehicles

Years of Operational Survivability Enabling Exceptional Maneuverability

Forces fighting in today's battlespaces face increasingly sophisticated anti-tank weapons - including next-generation anti-tank guided missiles (ATGMs) that can penetrate the armor of any combat platform. To counter these threats, combat vehicles need an Active Protection System (APS) that ensures the survival of crew and vehicle.

RAFAEL, a global leader in Active Protection Systems, has developed TROPHY™ - the only combat-proven APS that has already saved lives. Delivering an unprecedented level of survivability - and enabling exceptional maneuverability - TROPHY is reshaping battlefields around the world.

Benefits

- The only APS that has already saved lives
- Over 500,000 operational hours
- With more than 20 years of APS experience
- Adaptable to all combat vehicles types
- Proven high-kill probability
- Minimal risk to dismounts, crews, or civilians; negligible collateral damage
- Low levels of false alarms, shocks, noise & radiation
- Can be integrated with SAMSON 30mm RWS
- Under serial production

COMBAT
PROVEN



TROPHY integration on MI A2 (courtesy: US Army)

Meeting Modern Warfare's Critical Challenges

Utilizing today's most advanced technologies, the TROPHY creates a neutralization bubble around the vehicle. The system rapidly detects, classifies and engages all known chemical energy (CE) threats - including recoilless rifles, ATGMs, HEAT tank rounds, and RPGs. Enhanced by the identification of even the most difficult-to-detect low-signature shooters, as well as its proven high-kill probability, TROPHY delivers an extraordinary level of survivability - which enables full vehicle maneuverability.

For scenarios requiring increased lethality, TROPHY can be integrated with the SAMSON 30mm RWS, equipped with SPIKE LR1&2 ATGMs. The combined system locates the fire source and enables the crew to return fire effectively - either via a SAMSON RWS, or by interfacing with other platforms via the BMS. TROPHY is adaptable to wheeled and tracked IFVs, and can be deployed on any MBTs, 8x8s and other medium-weight platforms.

Growing Global Recognition

TROPHY is fully tested, qualified, safety certified, and in serial production - with thousands systems contracted. In combat use on Merkava 3&4 MBTs and Namer APCs, it is deployed along Israel's borders. The system is under a production contract for the USG Abrams MBT Family (2018). It was successfully integrated with the LAV III IFV, and has completed multiple tests on the Stryker and Bradley.

Main Capabilities

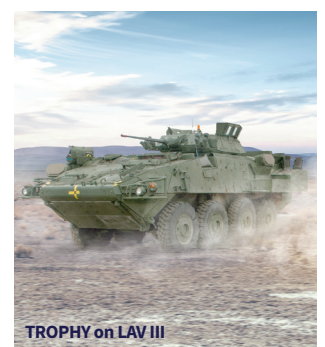
- Protects against all known CE threats, including CE tank rounds
- Provides 360° protection in azimuth as well as extensive elevation coverage
- Operates in a wide range of combat scenarios: short-range, on-the-move, multiple/simultaneous shots from multiple directions
- Built-in Hostile Fire Detection (HFD)
- Pre-defined safety zone for friendly troops
- Operates with other RF systems (radars, EW, radio, data, etc.) in close proximity
- For all AFVs including MBTs, 8X8s, and other medium-weight platforms.



TROPHY integration on Samson 30



TROPHY on Merkava MK IV



TROPHY on LAV III

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