

**SMART
AND TO THE
POINT.**



IRON BEAM™-M (Mobile)

MOBILE C-UAS & C-RAM HELWS

Proven Superiority: Mobile, Laser-Based Air Defense

IRON BEAM-M is the mobile configuration of RAFAEL's IRON BEAM HELWS, integrated on an 8x8, 6x6 truck for maximum maneuverability. As a laser-based system with a continuous power supply, it ensures persistent operational continuity, providing high-precision interception of low-altitude aerial threats at near-zero cost.

Based on a combat-proven IDF variant with an established operational track record, the system effectively neutralizes UAS and RAM threats at ranges up to 5 km. IRON BEAM-M complements kinetic air defense systems, delivering cost-effective protection for maneuvering forces and borders, as well as point and area defense.

Benefits

- Based on a combat-proven IDF operational variant
- Highly mobile and flexible, optimized for 8x8, 6x6 platforms
- Operates as a standalone system or integrated into air-defense networks
- Near-zero cost-per-interception for maximum cost efficiency
- Deep magazine for continuous, unlimited engagements
- Minimal Life Cycle Cost (LCC)
- Enhanced sustainability for high-intensity, prolonged combat





IRON BEAM-M: Laser-based Target Neutralization



Next-Gen Technology Delivers Significant Advantages

All-in-One Mobile Protection

The all-in-one IRON BEAM-M operates as a standalone system or integrates into a wider air-defense network. The system's high-mobility ensures rapid repositioning, enhancing survivability and continuous operational readiness. Its silent, laser-based interceptions make it ideal for protecting strategic sites in civilian areas.

RAFAEL's Technological Superiority

By leveraging proprietary Adaptive Optics and Coherent Beam Combining (CBC), IRON BEAM-M generates a highly focused energy flux on targets. This ensures precise, efficient neutralization while maintaining optimal performance at relatively low laser power. The beam director also functions as a high-performance EO telescope, enabling long-range detection, classification, IFF discrimination, and precise aiming point selection.

Economic Superiority & Operational Continuity

IRON BEAM-M offers a near-zero cost-per-interception, filtering and neutralizing the majority of threats to leave fewer targets for kinetic systems. Its deep magazine and reduced logistical footprint ensure continuous operational readiness, maximizing efficiency and providing a decisive advantage during high-volume saturation attacks.



Operational Experience

IRON BEAM-M leverages the capabilities of an IDF variant which has achieved dozens of unprecedented operational laser interceptions. This combat-proven system has consistently neutralized diverse drones, UAS, and other low-altitude threats, has accumulated unrivaled combat experience, and has demonstrated exceptional effectiveness in real-world battlefield conditions.

Main Capabilities

- Counters Groups 1-3 UAS & RAM up to 5 km
- Remote or cabin-controlled operation
- Full laser-based engagement: from detection to neutralization
- Pioneering, unique implementation of Adaptive Optics and CBC
- High-intensity target flux at lower power requirements
- Rapid deployment and repositioning for enhanced survivability
- Silent, laser-based interceptions optimized for civilian environments



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