METIS AEROSYSTEMS AG

METIS HALO

THE NEXT GENERATION OF MISSILE PROTECTION

Recent global conflicts have shown a sharp increase in the use and sophistication of MANPADS. Once considered a threat primarily to larger platforms, newer generation MANPADS are proving highly effective against helicopters, light aircraft, and even UAVs. The growing reach and capability of new MANPADS generations have reinforced the urgent need for small, reliable, and effective defensive solutions. While traditional DIRCM systems provide an operational response, they are typically large, heavy, and relatively expensive. This leaves smaller platforms, which are often exposed and operating at lower altitudes, vulnerable to interception.

Building on its proven track record in airborne defense solutions, Metis Aerosystems leveraged its operationally tested Ray-X DIRCM system and decades of accumulated expertise to develop a revolutionary new concept: **the Metis HALO**.

This Metis HALO was designed to address the limitations of existing solutions by offering compactness, affordability, and maximum effectiveness. Drawing directly from its legacy of delivering trusted, combat-proven systems, Metis Aerosystems has positioned the Metis HALO to bride the critical protection gap for platforms that were previously unable to carry DIRCM technology.

The Metis HALO is a miniature, single LRU that integrates multiple solid-state with a high-resolution, dual-band thermal tracker for threat acquisition, confirmation, and tracking. This ensures highly effective countermeasure performance against MANPADS across all aircraft types. Designed with an open architecture, the Metis HALO seamlessly integrates with any MWS and complementary countermeasure systems. Its compact form factor allows full conformal installation on small aircraft and UAVs with minimal impact on aerodynamics or performance. Moreover, the system can be configured in multi-turret setups to provide full-spectrum protection against simultaneous multi-missile attacks, ensuring mission survivability even in the most challenging operational arenas.

Technical Specifications

Features	Benefits	Value
Miniature, lightweight, single LRU device	Ideal for any platform, easy installation & maintenance	18 cm (L) X 18 cm (W) X 23 cm (D) <7 kg <350 W in active state <100W in passive state
MWS support without any need for connection with A/C systems	Supports connection to all MWS in the market.	RS-422, Ethernet Embedded high end IMU
Fully certified and complies with the most demanding Civil Aviation and Military standards	High reliability and safety	MIL-STD-810H/461G/704B DO-160E/178C/254 RTCA/DO-160G (Up to 71°C ambient temperature support) IEC 60825-1
Full coverage and exceptional response speed	Reducing blind zones	Az: 360° (continuous) El: (+20°) to -90°
High resolution dual band IR tracker with frame rates up to 450 Hz	Fast response times while maximizing Probability of Detection (Pd) and minimizing the False Alarm Rate (FAR)	<1/1,000 activations False Alarm Rate (FAR)
Multiple fully solid-state and high-power laser emitters	Maximum laser energy on the target using UV, Band I and Band IV laser emitters	From UAV's/small helicopters and up to Boeing 777 platforms operational support

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