

MIYSIS DIRCM

DIRECTED INFRARED COUNTERMEASURE SYSTEM



WHAT PROTECTS YOUR MOST VALUABLE ASSETS?

One of the greatest threats to airborne platforms, their crews and the mission is that posed by Infrared Man Portable Air Defence Systems (IR MANPADS). These readily available missiles are inexpensive, highly portable and continue to be used lethally in both military conflicts and by terrorist organisations.

THE THREAT IS REAL

As technology has developed, MANPADS have become increasingly resistant to, quantity limited, flare decoys. Against today's threat the most effective defence from MANPADS is to defeat them with a high power, multi-band, laser Directed Infrared Countermeasure (DIRCM) system.

Modern advanced MANPADS can engage low heat signature aircraft from any aspect, meaning that it is vital DIRCM systems provide synchronised, multi-shot, all-aspect protection.

THE SOLUTION IS READY

As a global leader in the development, manufacture and support of airborne laser and electro-optic systems, Leonardo has developed the Mysis DIRCM System providing high power, all-aspect protection against modern, advanced IR MANPADS. Mysis DIRCM is fully operational and our customers include several NATO nations as well as a number of Government VIP applications.

The baseline Mysis DIRCM configuration is a twin-head system to ensure the necessary level of spherical protection to defeat the modern, advanced threat. A three-head system configuration ensures ultimate coverage and protection for larger platforms with high-value missions.



ULTIMATE CUSTOMER FLEXIBILITY

Offering market-leading size, weight and power characteristics with no compromise of its trial-proven jamming capability, the system design utilises open architecture concepts allowing it to be installed on aircraft as a standalone DIRCM solution or integrated as part of a broader Defensive Aids System ensuring ultimate customer flexibility.

No other DIRCM supplier delivers this level of combined, next-generation, capability in a readily exportable package.



PRINCIPAL FEATURES

Market-leading small size and weight with low power demand

- Readily exportable, Multi-band DIRCM
- Fully synchronised, multi-head, all-aspect coverage with exceptional response speed
- Fully compatible with any DIRCM capable Missile Approach Warner
- Laser directly coupled and alignment free
- Highly reliable and low-maintenance
- Slimline design having minimal effect on aircraft performance
- Discrete and discerning installations

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CAPABILITY BENEFITS

- Single solution for helicopters and fixed wing aircraft
- Dependable, persistent and proven protection
- Proven ability to defeat modern advanced threats including very short range and multiple missile engagements
- Flexible aircraft installation options to exceed customer operational and integration requirements
- Exceptionally high laser Energy-on-Target
- Greatly reduced through life cost and support requirements

LEADING SYSTEM PARTICULARS

Twin-head solution:

- Total weight = 38kg
- Total volumetric space = 41 m³
- Effector dimensions (W x L x H): 183mm x 270mm x 341mm (only 91mm into the airstream)
- Electronics Unit dimensions (W x L x H): 234mm x 124mm x 194mm

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