

METIS AEROSYSTEMS AG



RAY-X

SELF PROTECTION RADAR ELECTRO OPTIC SYSTEM DIRCM

Enhanced platform protection with virtually zero False Alarm Rate and optimized jamming techniques

RAY-X provides enhanced protection against the immediate threat of manpads for a wide-range of airborne platforms, ranging from small helicopters to large transport aircraft.

RAY-X integrates multiple functions including threat detection and confirmation, tracking and jamming of advanced IR guided missiles into a single Line Replaceable Unit (LRU).

As soon as a warning is received from the onboard Missile Warning System (MWS), RAY-X immediately pivots in the direction of the incoming threat and activates the mmW and IR trackers function for confirmation and tracking, which are performed simultaneously on both trackers. Following the confirmation and tracking, RAY-X deploys the multi band countermeasure laser causing the missile to miss the aircraft.

RAY-X is the most advanced DIRCM solution in the market that ensures enhanced protection of your aircraft against any type of MANPADS

RAY-X Unique Capabilities

- Virtually Zero False Alarm: Ensures only real threats are declared by the system through effective filtering for all known nature and man made types of false alarms
- Optimized Jamming Technique: Collects specific threat information (velocity, distance) and calculates its time-to- impact, enabling an optimized jamming technique
- Threat Tracking Assessment: Constant threat tracking to assess whether the missile has been successfully deviated and measures the level of effectiveness of the protection
- Seamless Integration: Integrates with any legacy MWS using patented incoming threats acquisition via radar and IR trackers technology
- Single LRU: The most compact and lightweight solution in the market
- Unparalleled interception success rates
- Simple Installation: Simple and easy installation on all types of platforms
- Provided with operational and verified jamming techniques

Technical Specifications

| Features | Benefits | Value |
|--|---|--|
| Compact size, weight and power Single LRU without fuselage penetration | Ideal for any platform, easy installation & maintenance | 37 cm (H) & 25 cm (D) <18 kg <600 W in active state <200 W in passive state |
| mmW radar and IR trackers data integration | Virtually 0 False Alarm Rate (FAR) Fast confirmation time. | Less than 1 false alarm per 5,000 activations |
| Multiband fully solid state based lasers technology (QCL and laser diodes technologies) | Multi Watt effective jamming capability | Band I, Band III and Band IV |
| Full coverage and exceptional response speed | Reducing blind zones | Az: 360° El: (+20°) to -100° |
| Fully certified and complies with the most demanding Civil Aviation and Military standards | High reliability and safety | MIL-STD-810G/461F/704B DO-160E/178B/254 IEEE C95.2003 IEC 60825-1 |