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AN/AAR-56 Missile Launch Detector (MLD) The World Leader in MLD Technology



AN/AAR-56 Missile Launch Detector (MLD)

Lockheed Martin's AN/AAR-56 Missile Launch Detector (MLD) is a mature, affordable, defensive system capable of providing long-range detection and declaration of both airborne and surface-launched threats.

An MLD shipset for each aircraft is comprised of six sensors, three common interface processing cards, and six low observable window frame assemblies. Currently in production for the U.S. Air Force, the MLD is suited to high speed, fixed-wing aircraft.

An established and tested algorithm provides maximum performance that matches the aircraft platform mission with threat environment.

Lockheed Martin continues to advance the modular design of MLD with the development of both high resolution and multi-spectral sensors and an expanded algorithm that incorporates situational awareness and defensive Infrared Search and Track (IRST).



Top view of digital signal processor

PD079-163



MLD integrated onto F-22

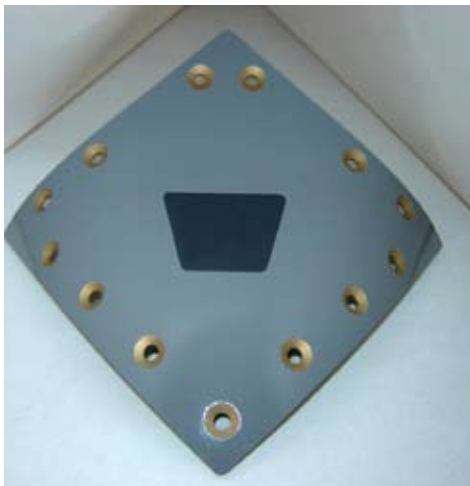
PD079-164

Features

- IR staring focal plane sensors for long range threat detection and declaration
- Low observable windows for improved survivability
- State-of-the-art image processing
- Real-time threat warning
- Mature missile detection algorithms
- On-camera rate sensors for improved threat tracking
- Two-level maintenance for reduced life cycle cost
- Modular design for technology refresh

Status

- In full rate production
- Over 800 sensors delivered
- Operational performance defined against all clutter environments
- Engineering released and fully documented to production standards
- Hardware qualified to military standards
- Full system simulation developed and verified
- Extensive clutter library collected
- Extensive live-fire missile data collected



Window frame assembly

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