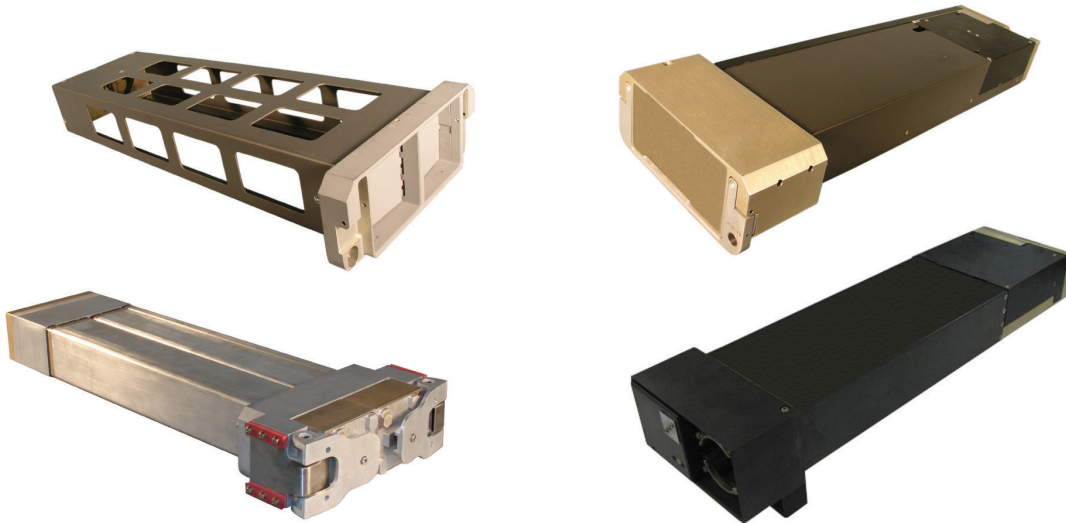


Aeromechanical Systems > Towed Targets

ALE-50 IR & RF Countermeasures



Utilizing the expanding base of ALE-50 installations, Meggitt Defense Systems (MDSI) offers various countermeasure magazines for different threats and budget constraints, all fitting the ALE-50 form factor and ICD for easy logistics and top of the line protection.

From the battle proven ALE-50 towed decoy expendable magazine to the only fiber optic towed decoy to be fully operational to date worldwide (F-16 Block 60), the ALE-50 infrastructure has proven to be simple, reliable and robust. The RORI Magazine offers significant cost reduction through decoy recovery and the SM-50 magazine offers covert preemptive IR protection and much longer duration.

Key features

- One ICD fits all A-10, F-16, F-15E, F/A-18E/F, F/A-18C/D, B1-B, F-16 Blk60
- Battle proven on many aircraft
- RF protection both repeater and active
- Long duration pre-emptive IR protection
- Low cost
- Same interfaces allow for flight line swap
- Modularity allows simple logistics and less training/tooling
- Allows wider utilization of other existing/resident EW on older aircraft
- Cost reduction makes EW on older aircraft readily possible
- Small size, power & weight allows use on UAVs

Meggitt Defense Systems

Our product competencies and services:
Ammunition Handling Systems | Thermal Management | Countermeasures | Towed Targets | Electronic Systems

MEGGITT
smart engineering for
extreme environments

Aeromechanical Systems > Towed Targets

ALE-50 IR & RF Countermeasures

Features

ALE-50 RF Expendable Magazine

In service on the F-16, F/A-18 E/F, B1-B and others, the ALE-50 aeromechanical system is acknowledged industry wide to be reliable, effective and safe. The one-way deployment feature has been in service for over a dozen years and is part of a system having confirmed aircraft saves.

RORI (Reel-Out/Reel-In Magazine) for RF Decoys

Fitting in the same slot as an ALE-50 magazine, the RORI magazine incorporates a retrieval feature allowing the decoy to be retrieved in-flight for repeated use. Retrieval has no performance impact and allows for smaller in-field inventory and lower program cost. Due to its identical form-fit-functionality, no hardware mods are required to the aircraft or EW sub-system. The RORI is fully fiber-optic ready and flight tested. The RORI magazine can save up to 20x per-use cost and lower the towed decoy cost-point to make them suitable for older aircraft with extended lifetimes.

SM-50 Extended Duration Pre-emptive IR Magazine

The SM-50 Magazine offers a long duration of covert IR protection. It is fully pre-emptive (but can also be triggered) and programmable with patterns. The magazine can be flight line installed in any location the ALE-50 magazine is currently used.

T-3 RORI

A variant of the RORI customized for the F/A-18 E/F. This variant has features to allow interface with the T3 Launcher already common equipment on the Super Hornet.

Specification subject to change - TCO Review #XXX

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