

# SYMETRICS

AN/ALE-47 CMDS  
*Countermeasures Dispenser System*



*Your "Guardian Angel"*

Installation



Test Equipment



Support Equipment



Training



*We don't just BUILD it, we SUSTAIN it!*

# Symetrics' AN/ALE-47 CMDS

Symetrics Industries understands the need for preserving commonality. As the U.S. Government's Prime Contractor for the AN/ALE-47(V) since 2001, our focus is on sustaining current hardware, as well as non-intrusive integration. Currently, the AN/ALE-47 is fielded in over 30 countries and is integrated on many different fixed-wing and rotary-wing aircraft.

## Countermeasures Dispenser System

...life saving nEWS



Safety Switch

REMOVE BEFORE FLIGHT!



Programmer



Dispenser Assembly



Control Display Unit (CDU)



Sequencer

### Modes of Operation

#### Fully Automatic

- (1) CMDS receives & analyzes threat data
- (2) CMDS selects the appropriate response:
  - (a) Type/# of expendables
  - (b) Dispersal sequence and pattern
  - (c) Timing of dispense
- (3) CMDS consents to release

#### Semi-Automatic

- (1) CMDS receives & analyzes threat data
- (2) CMDS selects the appropriate response:
  - (a) Type/# of expendables
  - (b) Dispersal sequence and pattern
  - (c) Timing of dispense
- (3) AIRCREW consents to release

#### Manual Operation

- (1) AIRCREW determines need for countermeasures
- (2) AIRCREW selects the preprogrammed response:
  - (a) Type/# of expendables
  - (b) Dispersal sequence and pattern
  - (c) Timing of dispense
- (3) AIRCREW consents to release

### Expendables

- Capable of carrying a mix of expendable countermeasures, including special material, kinematic and expendable jammers
- Handles conventional chaff and flare decoys that are compatible with the previous generation ALE-40 and ALE-39 dispensers
  - Supports dispensing of new generation expendable decoys

### Interfaces for Automated Operations

- Missile Warning Systems (MWS) • Radar Warning Receivers (RWR) • Laser Warning Receivers (LWR) • Jammers

### Specific Benefits

- Common LRUs • USG Coalition compliant software loads • Information integration into cockpit MFD • Higher MTBF
  - Lower cost to support • Logistically supportable today (no new support equipment)
    - Ongoing modifications supporting new weapons systems • Smart dispense
  - Bypass Mode: System operates if Programmer fails allowing aircrew to dispense using CDU

### Support Equipment



AN/ALM-295  
Countermeasures Dispenser Test Set (CDT)



AN/USQ-131-B  
Memory Loader Verifier System (MLVS)



**SYMETRICS INDUSTRIES**

Big Business Ability,

...Small Business Agility

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