



ADVANCED COUNTERMEASURES DISPENSER SYSTEM

Advanced Countermeasures Dispenser System for all types of military aircraft

The Terma Advanced Countermeasures Dispenser System (ACMDS) has been designed to coordinate, integrate and operate expendable countermeasures payloads on fixed-wing fighter, light attack, transport, and large-body aircraft as well as helicopters.

The ACMDS dispenser suite is typically controlled via the AN/ALQ-213 EW Management Unit (EWMU) or Defensive Aids Controller (DAC), which provides automatic decision support for the pilot in a threat environment, built-in training capability, and full EW suite control, if desired.

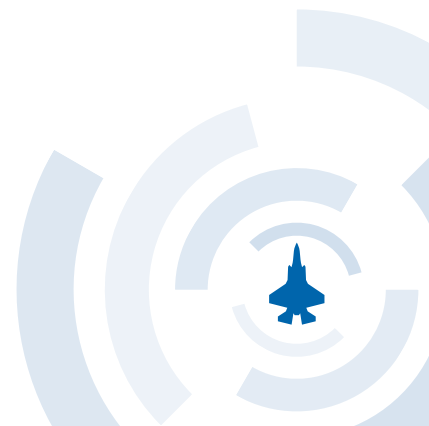
The ACMDS components consist of a series of autonomous line-replaceable units that include:

- Digital Sequencer Switch
- Safety Switch
- Dispenser Assemblies
- Dispenser Magazines
- Retainer Plates

In addition to the standard Air Force dispenser assemblies, the ACMDS components have been integrated in applied aerostructures as both scab-on, pylon-mounted, and podded solutions. Examples include:

- F-16 Pylon Integrated Dispenser System (PIDS)
- Modular Aircraft Survivability Equipment (MASE)
- Modular Countermeasures Pod (MCP)

All integrates both ACMDS and a missile warning system.



ACMDS system – combat proven

The non-ITAR ACMDS system has been combat proven through operational service for more than 25 years.

The ACMDS includes mixed payload capability within a magazine as well as a Flare-Up modification of the F-16 PIDS pylon allowing dispensing of pyrophoric flares from pylons on stations 3 and/or 7.

ACMDS - key capabilities

The following highlights the key capabilities of the ACMDS:










- Compliant with STANAG 4781 smart stores communication interface (SSCI) for optimal operational use of multi-shot cartridges, expendable active decoys, and future smart expendables
- Full In-Country Reprogramming via associated Mission Support Tool
- Additional platform adaptable hardware-controlled safety features
- Configurable back-up mode, allowing smart dispensing without ACMDS controller
- Improved mixed payload capability
- Synchronous and asynchronous dispense patterns, including simultaneous dispensing of payloads
- Manage payload dispensing based on payload age, flight hours, etc.
- Support for either 2 or 3 magazines per sequencer switch (space, cost & weight reduction)
- Ensures backward compatibility with legacy dispenser systems

Support equipment

The ACMDS suite includes a full suite of both ground support equipment by means of Dispenser Test Adapters, Payload Simulator & Stray Voltage Tester, and Dispense Program Analyzer as well as a Windows PC based EW Mission Support Tool (EWMST) application for field/in-country organic mission data generation and post-flight analysis.

ACMDS reference list

ACMDS system has been installed on 2,500+ aircraft worldwide, counting more than 25 different platforms.

Aircraft Type	Platform	Examples
Fighters	F-16 A/B Block 15 MLU F-16 C/D Pre-Block 40* F-16 E/F Block 60 Tornado GR4 Harrier GR9 AQ/A-10* Archangel	  
Transport/Large Body Aircraft	C-130H Hercules C-130J Hercules C-160 Transall Fokker 60 Nimrod MR2 P-8A Falcon 2000S	  
Helicopters	Ch-47D/F Chinook AH-64D Apache AS532U Cougar AS550 Fennec Eh101 NH90	  

Note: Platforms marked with an asterisk (*) include the ACMDS controller only, i.e. different dispenser system installed