ÖZİŞİK CMDS is a Chaff/Flare countermeasures dispensing system which provides advanced protection for airborne platforms against RF and IR guided threats. It provides protection by dispensing chaff or flare countermeasure munitions to divert guided missiles from their intended targets.

ÖZİŞİK CMDS is a combat-proven system which has been used since 2006 on more than 350 platforms by the Turkish Armed Forces, as well as being used by international customers.
ÖZIŞIK

COUNTERMEASURES DISPENSING SYSTEM (CMDS)

General features:
- Automatic (AUTO), Semi-Automatic (SEMI-AUTO), Manual (MAN) and Bypass (BYPASS) operating modes
- Capability to expand up to 8 magazines
- Fully programmable, flexible Mission Data File architecture:
  - 2400 different Chaff/Flare dispensing programs against RF and IR guided missiles
  - Periodic (Type-1), Aperiodic (Type-2) and Special (Type-3) dispensing program definition capability
- Ability to be programmed during flight by the Suite Central Processing Unit
- Application of optimum countermeasure technique according to the platform altitude and threat direction of arrival
- Flexibility in the munitions used:
  - Compatibility with standard 1”x1” and 2”x1” NATO cartridges and equivalents
  - Ability to load same or mixed types of payloads into magazines
- Independent dispensing capability of two halves of Dual Chaff and RR-180 types of payloads
- Automatic inventory detection, continuous inventory monitoring and notification when payload quantity is critical
- Simultaneous dispensing (up to 4 payloads)
- Sequential dispensing
- Automatic misfire detection
- Automatic early misfire detection
- Automatic misfire correction with the same or equivalent type of payload
- Error and misfire recording feature
- Flight event recording feature
- Direct integration capability to various sensors (Missile Warning, Radar Warning, Laser Warning) and to suite control systems. ÖZIŞIK CMDS has the capability to be used as a pilot-controlled standalone system, as well as being integrated into ASELSAN EW Suite which consists of:
  - Suite Central Processing Unit (SCPU)
  - Radar Warning Receiver (RWR)
  - Missile Warning System (MWS)
  - Laser Warning Receiver (LWR)
  - RF Jamming System (RFJ)
- Dispensers made of durable and lightweight composite materials:
  - 3x10 format magazines for Helicopter version
  - 6x5 format magazines with housings for Fixed Wing version

System Control Unit (SCU)
System Control Unit provides the necessary visual interface for the pilot, as well as being the main control unit which manages dispense programs and allows integration with other on-board systems. Its main functions are:
- Man-machine interface
- Storage/zeroize of Mission Data File (MDF)
- Displaying inventory and status information
- Initiation and monitoring of dispensing
- Operating mode selection
- Communicating with Dispense Control Unit and other on-board EW systems
- Manual activation of dispensing and Jettison
- Error, misfire and event recording
- Built-in Test (BIT)

Dispense Control Unit (DCU)
It is the main unit providing the control of dispense function. Each Dispense Control Unit can be connected up to 4 dispensers. It initiates dispensing based on commands received from the System Control Unit and executes dispensing in accordance with the sequence defined by the selected dispense program. Its main functions are:
- Execution of dispensing by providing firing current to the selected cartridge(s)
- Misfire detection and correction
- Detection of magazine identification codes
- Inventory monitoring and detection of cartridges in magazines
- Built-in Test (BIT)

Dispenser Base
It allows magazines to be easily integrated onto the platform. Dispenser Base includes 60 contacts which provide the electrical connection between the Dispense Control Unit firing lines and the electrical impulse cartridges (squibs) of the chaff/flare decoys. It detects magazine identification codes which provides the configuration information defining the types of decoys loaded into the magazine. Dispense Control Unit accomplishes inventory detection by reading the magazine identification codes and relaying this information to the System Control Unit.

Magazine
Each magazine can be loaded with 30 decoys of 1”x 1”x 8” type or 15 decoys of 2”x 1”x 8” type. The helicopter versions of the magazines are produced in 3x10 format, while the fixed wing versions are produced in 6x5 format with housings. Magazines are made of durable and lightweight composite materials.