



#### **Operational requirement**

Aircraft are called to operate in a wide range of operation theatres where they are required to counter a great variety of threats, more often using infrared guidance.

The proliferation of very short range missiles may also threaten aircraft at any time during peace keeping missions or as a result of terrorist activities.

#### **The solution**

Aircraft are no longer sent into battle without self-protection. Chaff & Flare dispensers are the first essential step offering active protection for the best cost-to-efficiency factor.

Adaptable to all types of aircraft in different configurations, ELIPS is already in service on Cougar, Panther, Sokol, Caracal, Embraer 145, C160, C130, Mirage 5

- Suitable for all types of aircraft
- High decoy capacity
- Fully programmable
- In service

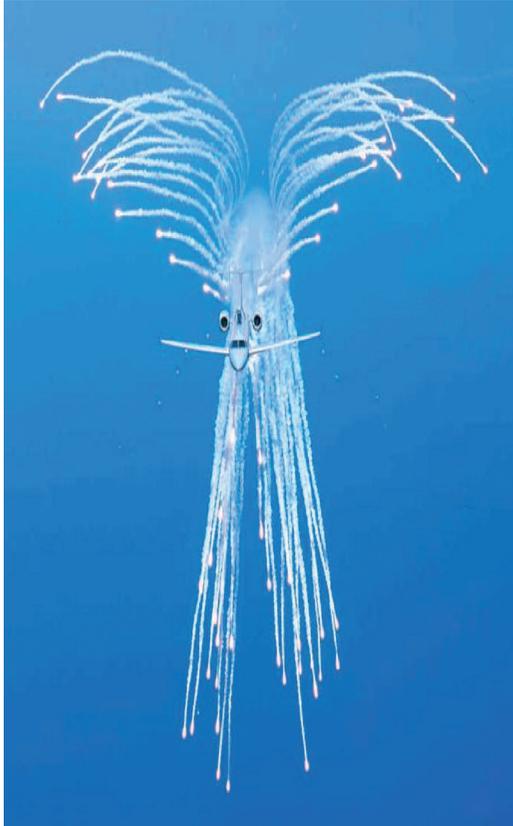
## **ELIPS**

DECOYING SELF-PROTECTION  
SYSTEM FOR AIRCRAFT



## AIR

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ELIPS is a decoy dispenser delivering countermeasures against radar and missile threats by optimized ejection of chaff and/or flares. It comprises the following units:

**Name**  
 • ELIPS

### Cartridge Dispenser Modules (CDMs)

The CDMs house the ammunition magazines and perform the interface with the MDU and the magazines. ELIPS can operate up to 12 CDMs.

### Management and Distribution Unit (MDU)

The MDU provides the management of the chaff and flare dispenser and the interface with the aircraft and alarm detectors of the EW system when available. It stores the mission parameters and elaborates the ejection programmes. It also provides for the loading identification and the management of the firing impulses.

### Cockpit Control Unit (CCU)

The CCU includes the controls and displays of the system. A rotary switch selects between Automatic, Semi-Automatic and Manual ejection modes. A selector allows ejection on either left, right or both sides.

### Magazines

The magazines are capable of carrying cartridges in a desired mix of chaff and flares in a variable configuration. The type and number of decoys as well as their position are automatically known by reading coded plugs at each magazine.

### Ammunition

- ELIPS can identify and use different formats of decoys:
- NATO 1"x1"x8" and 2"x1"x8" (up to 32 decoys per magazine)
  - Ø 40 mm cart.\* (18 per magazine)
  - Ø 60 mm cart.\* (8 per magazine)

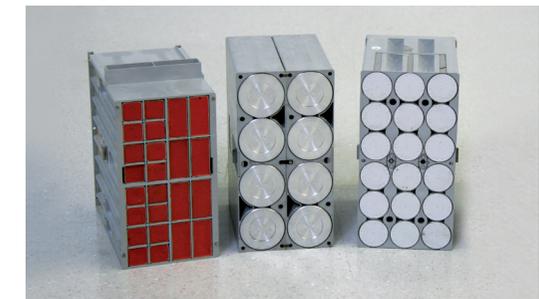
### Above decoys can be:

- Infrared flare
- Advanced flare (spectral)
- RF (chaff)
- Other types

### Mission planning

ELIPS comes with a mission planning system to generate the library parameters and upload it into the ELIPS before mission. It can take the form of an autonomous station or software to be embedded in an EW system mission planning system.

\* in co-operation with LACROIX



MDU

Safety Unit