

Directed Infra Red Counter Measures (DIRCM)

SELEX Galileo has formed a strategic alliance agreement with Northrop Grumman Corporation for delivery of transmitters (laser based pointer trackers) for the AN/AAQ-24(V) NEMESIS DIRCM system. We have delivered in excess of 1000 transmitter assemblies as part of the alliance and continue to support this product at our award winning facilities in Edinburgh and internationally.

Advantages

NEMESIS offers a fully flexible and adaptable solution to the IR guided MANPADS threat. It is the only system of its kind in full rate production and has been installed on over 48 different aircraft types around the world.

Now established as the leading producer of combat proven DIRCM transmitters, we are in a unique position moving forward with continued production and support of the AN/AAQ-24(V) transmitters as well as developing a smaller, low cost, light weight DIRCM solution for rotary wing protection.

ECLIPSE (ECONOMIC COMPACT LIGHTWEIGHT POINTER TRACKER SYSTEM)

In support of the strategic alliance with Northrop Grumman Corporation SELEX Galileo has developed an Advanced IRCM Laser Pointer/Tracker system called ECLIPSE to meet US and UK requirements for a lightweight low-cost IRCM Pointer. Recent ECLIPSE flight trials demonstrated an end-to-end capability on an airborne platform; from initial threat detection, through hand-off to the ECLIPSE head and to laser energy on target.

Advantages

- Successfully live fire tested in conjunction with the Northrop Grumman AN/AAQ-24(V) DIRCM system
- Much lower unit production and support costs
- High Reliability
- Modular design allows for flexible configurations
- Low Mass & Low Power
- Minimal Airstream Intrusion
- Compatible with SELEX Galileo Thulium Fibre Laser and Northrop Grumman Corporation Viper™ Laser
- Capability upgrade path

General Description

The threat to military aircraft from Infrared (IR) guided surface to-air missiles, known as MANPADS (Man Portable Air Defence Systems) is significant. There has been a proliferation of uncontrolled MANPADS throughout the world and these have been used to devastating effect against a range of fixed and rotary wing platforms. As MANPADS technology evolves so must the techniques used to counter them. This has resulted in the introduction of Directed Infrared Countermeasure (DIRCM) systems, as well as improvements in traditional methods such as flare decoys.

The term DIRCM has become synonymous with the combat proven AN/AAQ-24(V) NEMESIS system, in operational service and full rate production since the late 1990s.

Proven Product

NEMESIS is a combat proven, laser-based countermeasure system that protects crews of fixed and rotary wing aircraft from the threat of IR guided missiles. It was developed by Northrop Grumman in conjunction with SELEX Galileo.

NEMESIS works automatically by detecting a missile launch and determines if it is a threat. Once the threat is confirmed, one or more electro optic transmitters track the missile and point a modulated beam of laser energy to defeat it.

SELEX Galileo has delivered in excess of 1000 DIRCM transmitters to Northrop Grumman Corporation since Full Rate Production began in 1999. Since then, we have injected significant investment into lean manufacturing techniques, supply chain management and state of the art facilities, all of which have significantly increased production capability and reduced support turn-around times. We are now in a unique position moving forward with the continued development, testing and proving of ECLIPSE in conjunction with our strategic partner Northrop Grumman Corporation.

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