



ARIEL TOWED RADAR DECOY

The combat proven Ariel Towed Radar Decoy offers the latest in offboard countermeasures to defeat even the latest RF guided weapons including those employing error cancelling monopulse tracking techniques.

Ariel is towed behind the aircraft and lures enemy missiles away by providing a much larger radar cross section than the aircraft and also incorporates the latest jamming techniques.

When deployed, Ariel communicates with the onboard Techniques Generator via a kevlar fibre optic cable to transmit specific deception techniques from the threat library to defeat incoming missiles and hostile radars.

Ariel is a compact and lightweight system which is recoverable either during or after flight, dependent upon platform and configuration, for repeated operational employment. The decoy can be installed and operated from all types of fixed wing aircraft including high performance supersonic combat aircraft. The decoy is operational at speeds up to Mach 2 at conditions of -3/+9g and can be provided in winched,

unwinched, podded or internal configurations, to suit the requirements of the particular platform installation.

Significant research has gone into making sure that Ariel offers a smooth flight profile even behind the turbulent vortex created behind delta wing aircraft during the entire flight envelope.

SELEX Galileo, previously GEC Marconi, is a leading EW provider and is regarded as pioneers of towed decoy technology continually developing this technology to ensure protection of the airframe.





caption



TECHNICAL SPECIFICATIONS

Frequency Coverage	H – J Bands
Spatial Coverage	Notched Spherical
Cooling	Air Cooled

Variations of the towed decoy have been in service since 1990 and are used on the Eurofighter Typhoon, Tornado and Nimrod aircraft. The first generation of towed decoys were flown successfully in Bosnia and the first Iraq War’ enabling crews to operate with a higher degree of safety in hostile skies’ providing protection against numerous surface to air systems.

The system consists of a launcher and launch controller installed on the aircraft, and one or more expendable towed decoys.

Threat Response

Ariel uses angle deception techniques to defeat monopulse radars, semi-active missiles and home-on-jam weapon systems. The towed decoy offers countermeasures which are more effective than conical scan deception, cross-polar and cross-eye jamming and provides protection for longer than chaff or ejected countermeasures.

Programmability

The equipment employs countermeasures techniques which are fully programmable by the user to enable the decoy to be used for a stand alone operation, or as part of a fully integrated Self Protection System.