SELEX GALILEO

A Finmeccanica Company

TYPE 160 INFRA-RED COUNTER MEASURES (IRCM) LASER

SELEX Galileo has developed a new, highly compact IRCM laser with high power, multi-band output that is fully compatible with DIRCM systems used to protect fixed and rotary wing aircraft. Designed for full performance over the military environmental envelope, the Type 160 IRCM laser provides high reliability for protection from attack by the full spectrum of heat-seeking missiles

The modular design of the Type 160 IRCM laser supports future spiral upgrades to higher power levels, extended spectral output and varied techniques to counter emerging seeker threats and makes it an ideal partner for the compact SELEX ECLIPSE pointer tracker.

The miniaturisation and modular approach that has been taken in the design of Type 160 IRCM Laser provides compatibility with a wide variety of platforms. Its small physical size and flexibility allow for future re-packaging specific to customer needs.

LATEST LASER TECHNOLOGY

The Type 160 IRCM laser design and architecture is modular in concept, comprising of a high-power diode-pumped fibre laser source and wavelength conversion optical module assembly (OMA), packaged into a single compact assembly, incorporating control, drive electronics and power supply.
Diode-pumping provides exceptional reliability, lifetime and performance and, combined with the high efficiency, state-of-the-art fibre laser pump source approach, delivers higher performance in a reduced size over traditionally fielded equipment.

KEY FEATURES

- High power output
- High duty cycle and sustained engagement times
- Multiple target capability
- Compact, high efficiency laser
- Diode technology for increased efficiency and long life performance
- Good beam quality
- RS422 interface
- Low life-cycle costs.

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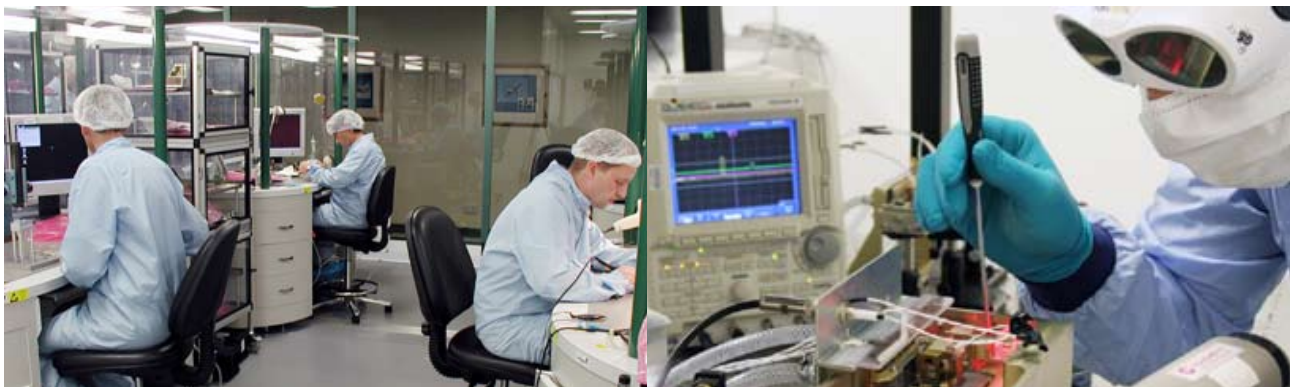

The Type 160 laser capatilises on the substantial investment we have made in expertise and Laser Centre of Excellence (CoE) facilities

TECHNICAL SPECIFICATIONS

Temperature	
Full performance	-54 to +55 °C
Storage	-40 to +85 °C
MTBF	>9600hrs
(MIL-HDBK-217 prediction)	
Dimensions	245 x 175 x 68mm (approx)
Mass	< 4.5 Kg
Power Supply	28V aircraft power
Electrical Interface	RS422

LASER CENTRE OF EXCELLENCE

Officially opened in May 2004, the design of the laser centre of excellence has been based on extensive research into manufacturing best practice within the defence and commercial sectors.

EXPERIENCE

Our Company has a reputation for providing customers with the best in high performance and cost-effective technology for laser requirements. More than 4,500 laser have been produced and supported for over 25 countries - with integration complete on some 40 platforms across air, land and sea. We are currently under contract to develop the next generation of laser technology within the F-35 Joint Strike Fighter electro-optic targeting system.

Type 160 IRCM Laser

Type 160 IRCM installed on ECLIPSE

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