Selex ES
A Finmeccanica Company

Radar & Advanced Targeting

BAT
BURST ILLUMINATION ADVANCED TARGETING LASER

The Burst Illumination Advanced Targeting Laser (BAT) provides illumination and designation capability for airborne and ground platforms. It provides exceptional performance and high Mean Time Between Failure (MTBF) in an extremely compact package.

DESIGN PRINCIPLES

A clear understanding of demanding customer requirements has driven the design and development of this Burst Illumination and Designation Laser. It has been designed with a variable beam divergence to ensure maximum energy on target, thus providing maximum stand-off range for target identification.

The laser consists of two modules:

- Laser transmitter
- Power supply.

These can be configured and packaged to suit specific requirements.

LATEST LASER TECHNOLOGY

Using the latest laser diode pumping technology we deliver enhanced performance over older flash-lamp based systems. Diode pumping creates a laser product with every shot fired at maximum energy with consistently high beam quality, reliability and substantially reduced heat-load.

KEY FEATURES

- Compact and Lightweight laser transmitter/receiver
- Dual-band (switchable) utilising common optics
- High MTBF
- Diode technology for increased reliability and low cost of ownership
- High beam quality
- Reduced heat-load
- Variable beam divergence telescope to deliver more energy on target.

TECHNICAL SPECIFICATIONS

General	
Repetition Rate	20 Hz (on both wavelengths)
Average Power	< 230 W
Power Supply	28 V (DC)

Dimensions	
Laser transmitter	341 x 195 x 109 mm
Power supply	66 x 94 x 198 mm

Mass	
Laser transmitter	< 6.0 kg
Power supply	< 1.5 kg

Output Energy	
Tactical	@ 1.06 µm > 220 mJ
Training	@ 1.57 µm > 80 mJ

Beam Divergence	
Tactical	@ 1.06 µm < 0.2 mRad
Training	@ 1.57 µm 0.75 to 3 mRad (variable)

Temperature	
Full performance	-20 to +55 °C
Storage	-54 to +85 °C

Power Supply Unit

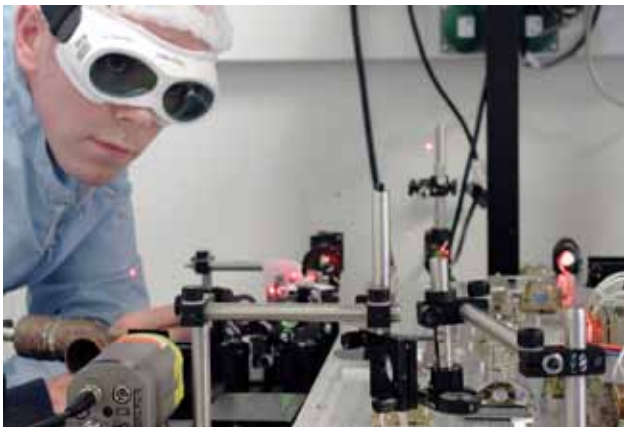
LASER CENTRE OF EXCELLENCE

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 lasers 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 F35 Joint Strike Fighter electro- optic targeting system.



INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

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