



MODULAR LASER RANGEFINDER/DESIGNATOR

The diode pumped Modular Laser Rangefinder/Designator (MLRD) provides a medium energy laser designation, illumination and ranging capability to air and land platforms. MLRD provides exceptional performance and reliability in a compact, low cost package and is suitable as an upgrade for older flash-lamp based or new build systems.

Modular design principles

A clear understanding of demanding customer requirements has driven the development of this laser which has been designed specifically to provide exceptional and consistent performance over a wide range of environmental and operational conditions. A modular approach has been taken to allow simple integration into various electro-optic systems requiring individual product configurations. This has resulted in three core module components:

- Laser transmitter
- Range receiver
- Power supply.

Modules can be configured and re-packaged to meet specific customer requirements.

LATEST LASER TECHNOLOGY

Using the latest laser technology particularly in the areas of Diode Pumping, ND:YAG Slab, Optical Parametric Oscillators and heat exchangers, we deliver enhanced performance. Every shot is fired at maximum energy, consistent high beam quality and a substantially reduced heat-load.

KEY FEATURES

- Compact and lightweight laser transmitter/receiver
- Single-band or dual-band (switchable) utilising common optics
- Diode technology for increased efficiency, and long life performance
- Exceptional beam quality
- Reduced heat-load
- Continuous operation
- Modular design for simple re-configuration and packaging
- 30% fewer parts against comparable products
- Low life-cycle costs.

TECHNICAL SPECIFICATIONS

DIMENSIONS (W X D X H)		
Laser transmitter		190mm x 85mm x 205mm
Laser receiver	Optics	20mm x 70mm x 200mm
	Electronics	20mm x 70mm x 140mm
Power supply		22mm x 86mm x 205mm
MASS		
Laser transmitter		< 4.5kg
Laser receiver		< 0.5kg
Power supply		< 1.5kg
BEAM DIAMETER		
		< 5mm
BEAM DIVERGENCE		
Tactical	@ 1.06µm	< 1.6 mRad (raw beam)
Training	@ 1.57µm	< 4.2 mRad (raw beam)
OUTPUT ENERGY		
		> 160mJ @ 1.06µm
		> 40mJ @ 1.57µm
REPETITION RATE		
		Single Shot to 20Hz (on both wavelengths)
TEMPERATURE		
Full performance		-40°C to +55°C
Storage		-54°C to +85°C
POWER SUPPLY		
		270V (DC) / 28V/115V (400Hz)
INPUT POWER		
		< 200W

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 electrooptic targeting system.



Power supply unit



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



Laser receiver