



Compact Rotary Wing/UAV LDRF

BAE SYSTEMS

Design Features

Laser

- ✓ Diode-pumped ND:YAG Total Internal Reflection (TIR) slab laser
- ✓ Folded, crossed porro resonator optical layout
- ✓ Q-switched oscillator generates 1.06 micron energy for target designation
- ✓ The Optical Parametric Oscillator generates 1.57 micron laser energy for target range finding

Receiver

- ✓ In GaAs photo diode
- ✓ 10 nautical mile range

Optics

- ✓ Proven beam handling optics thoroughly tested to meet military environment standards

Packaging

- ✓ All system components contained in a single high density unit
- ✓ Conductively cooled
- ✓ Continuous operation (-40° to +70°C)
- ✓ Cooling air (-40° to +53°C)
- ✓ All heat sources thermally isolated from the optical support structure

Reliability

- ✓ Diodes temperature controlled by thermoelectric coolers (TECs) at a coefficient of performance of 1 or better
- ✓ Mean Time Between Failure (MTBF) more than 6000 hours
- ✓ No end-user adjustments required
- ✓ Storage life of more than 5 years

*BAE SYSTEMS' Compact Rotary Wing/UAV
Laser Designator and Rangefinder (LDRF)
Achieves Full Performance on the First Pulse
Over All Environmental Conditions*

Flight Tested ...



... Ready for Service

BAE SYSTEMS' Rotary Wing/UAV Laser Designator and Rangefinder (LDRF) is designed specifically for the challenging requirements of rotary wing airborne combat missions. The LDRF features advanced diode-pumped technology that provides superior performance, stability, and lower life cycle cost than traditional flash lamp systems. Our LDRF's advanced modular electronics and compact, lightweight form minimize the size, weight, and power requirements to provide easy integration with new aircraft and a versatile solution for retrofit and upgrade of in-service aircraft.

Multiple Platform Capable

Diode-Pumped Laser Designator/Rangefinder

Precision Guided Rocket Operational Scenario





“We Protect Those
Who Protect Us”

For further information, contact:

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