



FAST. FORWARD.

DIODE-PUMPED EYE-SAFE LASER RANGE FINDER

DP-ELRF V

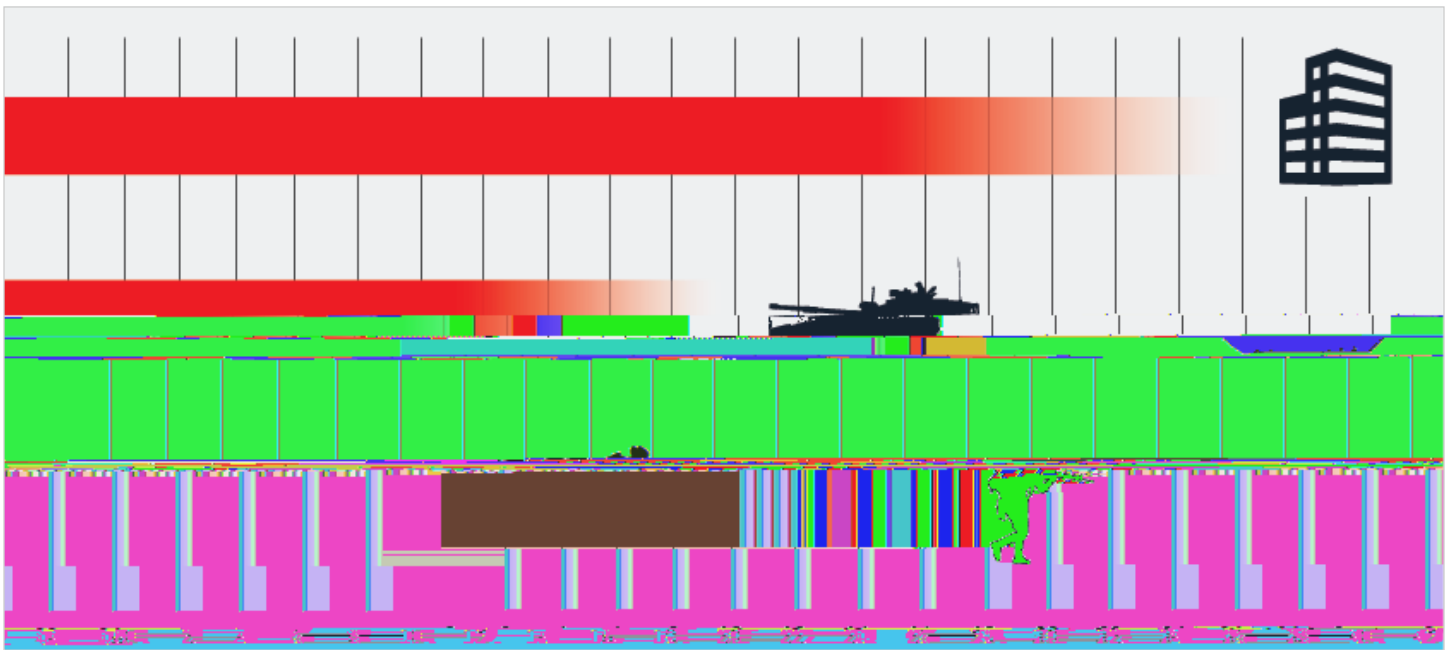
| | |
|---|-----------------|
| System | |
| Ma Range | See Figure 1 |
| Min Range | 50 m |
| Transmitter Boresight Accurac (relative to nominal emission axis) | ± 200 µrad |
| MTBF | 1,500 hrs |
| Laser | |
| Wavelength | 1535 nm |
| Class | Class 1 IALD |
| Pulse Rate | 4 Hz Co |
| Beam Divergence | Note: 1 |
| Energ Output | Note: 1 |
| Pulse Width | Note: 1 |
| Boresight Projector | |
| Wavelength | Visible |
| Divergence | 1.0 mrad |
| Receiver | |
| Range Accuracy | 2 m |
| Range Accuracy | 50 to 300 m |
| Range Logic | First / Sec |
| Multi-Target Discrimination | 25 m |
| Detector Type | Note: 1 |
| Receiver Sensitivity | Note: 1 |
| Mechanical | |
| Weight | 5.22 kg |
| Height | 253 mm (10 in) |
| Environmental Enclosure | Open frame |
| Electrical | |
| Communications Protocol | RS-422 (F |
| Input Voltage | 12 VDC to |
| Power Consumption | 20 W |
| Environmental | |
| Operating Temperature | -31 °C (-24 °F) |
| Environmental Standards | MIL-STD-883C |

The Diode Pumped Eye-Safe Laser Range Finder (DP-ELRF) V employs the latest diode-pumped erbium:glass laser transmitter. The DP-ELRF V provides high-pulse rates, and longer ranging pulses. The low beam divergence and larger receiver aperture provide for more accurate ranging on smaller targets. Compared to other systems, the DP-ELRF V is an excellent long-range ranging system even for small targets, such as missiles or Class 3 eye safety.

NOTE 1: These parameters, together and in combination with the atmospheric and target characteristics shown, provide the user with the achievable range performance shown in Figure 1 as shown on page 2.

A global leader in defense technologies and services, L3Harris is an ISO 9001 certified full-service designer and manufacturer of military grade Eye-Safe Laser Range Finder, Laser Designator, and Multi-Function Laser Systems.

Figure 1: Ranging Performance Using Various Targets (FAR = 0.1 %)



PRODUCT OVERVIEW

The DP-ELRF-V provides up to 50 km ranging capability, 3.2 mJ nominal energy, pulse repetition options of 1, 4, or 10 Hz, and TE-cooled Avalanche Photodiode Detector (APD). This laser range finder is ANSI Z136.1-2007 Class 1 or Class 3R Eye-Safe. Providing kinematic-mounting interface for reliable boresight retention, it also has a single-connector interface for power and communication.

Diode-Pumped Eye-Safe Laser Range Finder

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