

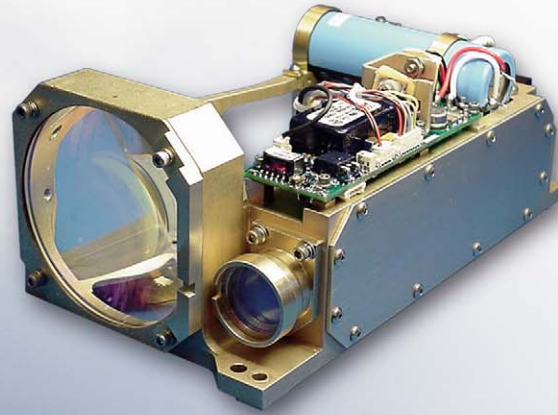
Advanced Laser Systems Technology

ELRF-3

EYESAFE LASER RANGEFINDER

PRODUCT DESCRIPTION

The ELRF-3 is a Class 1 eyesafe, long-range laser rangefinder with an APD receiver suitable for a wide range of applications. With lower beam divergence for smaller targets or increased range resolution for higher accuracy, the ELRF-3 can be configured for a specific application.



FEATURES

- 30 km ranging capability
- Avalanche Photodiode Detector
- 0.5 mrad beam divergence standard
- Optional 1 Hz rep rate
- ANSI Z136.1-2000 and EN 60825 Class 1 Eyesafe
- Kinematic mounting interface for reliable boresight retention
- Single connector interface for power and communication



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SPECIFICATIONS

Laser Type	Erbium:glass
Wavelength	1.54 microns
Pulse Rate	12 ppm (1 Hz optional)
Max/Min Range*	30 km / 50 m
Range Resolution	± 5 m (± 2 m optional)
Receiver Aperture	70 mm
Beam Divergence	0.5 mrad
Detector Type	APD
Communication Interface Options	RS-232, RS-422, RS-485
Module Dimensions	197 mm x 108 mm x 77 mm
Housing Dimensions	263 mm x 136 mm x 104 mm
Weight	1.23 kg (w/o housing)

* Maximum range achievable under ideal atmospheric and target conditions. Actual range is dependent upon atmospheric conditions and upon target size and reflectivity.

OPTIONS FOR ELRF-3M

Housing Option (H): Heavy-duty painted aluminum housing includes kinematic mounting features, sealed, visible light blocking window, sealed connector, and nitrogen purge valve.

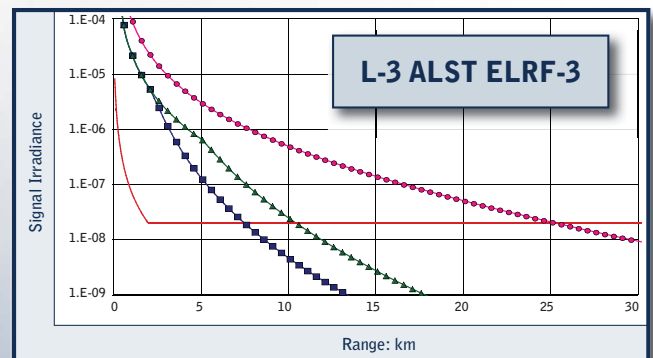
High Pulse Rate Option (HPR): Continuous operation nominally up to three minutes at one hertz pulse rate. No increase in size or weight.

Non-Volatile Shots Counter Option (SC-1): The number of times the flashlamp has fired is recorded and stored in a non-volatile memory. This number is accessed via the serial interface.

High Range Resolution Option (RC-2): ± 2 m range resolution.

Series Software Option (SW-1): Provides operation via any Windows equipped computer. All controls, installed options, and range data are accessed via the user-friendly control window with mouse selected command buttons and check boxes. One time license fee includes use with unlimited number of units.

Sighting Telescope (ST-1): Variable power riflescope with adjustable focus is mounted to housing and boresighted to laser rangefinder optical axis.



LEGEND

- 1-square meter, 10% R, 23-km. visibility
- ▲ TANK, 10% R, 23-km. visibility
- Large Target, 40% R, 30-km. visibility
- Minimum APD detection limit

ABOUT L-3 ALST

L-3 Advanced Laser Systems Technology (L-3 ALST), a wholly owned subsidiary of L-3 Communications Corporation, designs, develops, and manufactures laser designator and rangefinder systems.

L-3 ALST's products are listed under category XII(b) of the United States Munitions List. International Traffic In Arms Regulations (ITAR) requires a valid export license prior to technical or hardware shipments or transmissions of information.



CERTIFICATE NO. 04383
L-3 ALST is ISO 9001:2000 certified.

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communications

Advanced Laser Systems Technology

L-3. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.