

## Laser rangefinder for harsh environments



Vidar is probably the most advanced laser rangefinder in its class on the market. It is designed to be an integral part of advanced weapon or surveillance systems in naval and ground applications.

The laser rangefinder has excellent performance with an instrumented range of up to 32 km with a pulse repetition of up to 12.5 Hz and with full single shot performance.

Vidar is designed and verified to sustain longterm use in harsh environments where reliability is crucial. It has an all solid-state laser transmitter with no moving parts, no fans and no cooling liquid bringing the required maintenance to a minimum.

Vidar has an environmentally sealed and stable housing with external surface treatment for demanding conditions.

The laser rangefinder is designed with state-of-the-art diode pumped Erbium: glass technology. The device is compact and easy to integrate. Vidar is a direct replacement of the legacy Tor and Frej laser rangefinders. Vidar is classified as an eye-safe Class 1M laser product in accordance with EN 60825-1, IEC:2014.





- Excellent range performance.
- High durability and availability.
- High repetition rate.
- Full single shot performance.
- Compact design.
- Class 1M eye safety.
- Low maintenance.
- ITAR free.

## Technical data and specifications

Laser emission wavelength	1535 m
Instrumented range	Configurable up to 32 km
Repetition rate	up to 12.5 Hz
Extinction ratio	50 dB *1
Laser divergence	0.8 mrad (adjustable)
Laser safety class	1M
Power supply	+20–32 VDC
Communication	RS422
Range accuracy	4 m
Range resolution	1 m
Weight	< 5.6 kg
Size (l x w x h)	318 x 145 x 141 mm

\*1 Extended target at 500m, atmospheric transmission 100% a Lambertian target with 100% reflectivity.

## Quality

The Vidar laser rangefinder is qualified against:

- MIL-STD-461
- MIL-STD-810
- MIL-STD-1275

The laser rangefinder is verified for harsh environmental applications. An all solid-state diode-pumped Erbium: glass transmitter ensures a long lifetime and low maintenance cost.

MTBF >10 000 hours or >4 million laser shots.

Lumibird has been a leading manufacturer of military lasers since the early 1960s, with naval, land and airborne applications worldwide. Over the years Lumibird has delivered more than 5000 long range laser rangefinders for military applications to more than 30 countries.



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