

Laser rangefinder for harsh environments



Vidar is probably the most advanced laser range-finder 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 IEC 60825-1:2014.





- 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		Quality
Laser wave length	1535 nm	The Vidar laser rangefinder is qualified against: <ul style="list-style-type: none"> • MIL-STD-461 • MIL-STD-810 • MIL-STD-1275 MTBF >10 000 hours or >4 million laser shots.
Instrumented range	Configurable up to 32 km	
Repetition rate	Up to 12.5 Hz	
Extinction ratio	50 dB *1	
Laser divergence	0.8 mrad (factory adjustable)	
Laser safety class	1M per IEC 60825-1:2014	
Power supply	20-33 VDC	
Communication	RS422	
Range accuracy	< 4 m absolute	
Range resolution	1 m	
Weight	< 5.6 kg	
Size (l x w x h)	318 x 145 x 141 mm	

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

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.