

DATA SHEET

Vranger 30K



Vranger 30K is a robust laser rangefinder with a performance up to 30 km and an accuracy of ± 1 m over the entire range & offer uninterrupted 24/7 continuous measuring without any break.

Product specification

Maximum range	30 000 m
Range performance on beamfilling target reflectivity: 60 %, observer visibility 50 km	23 600 m
Range performance on 2.3 m × 2.3 m target size reflectivity: 30 %, observer visibility 25 km	11 000 m
Range performance on 1 m × 1 m target size reflectivity: 10 %, observer visibility 10 km	5 600 m
Measurement accuracy (1 σ) over entire range	± 1 m (worst case at extreme temperatures: ± 1.5 m)
Repetition rates (customization possible)	
full range performance	1 Hz
approx. 90 % of full range performance	3 Hz
approx. 85 % of full range performance	5 Hz
approx. 80 % of full range performance	10 Hz
Multiple target detection	up to 5 targets
Wavelength	1 550 nm
Divergence	0.45 mrad
Optional pointer wavelength	830 nm

ENVIRONMENTAL CHARACTERISTICS, MEETING MIL-STD-810

Operating temperature range	-35° C to +70° C
Storage temperature range	-40° C to +85° C
Shock at 0.5 ms in z-direction (line of sight)	800 g
Shock at 0.5 ms in x- and y-direction	500 g
EMC	MIL-STD-461G

PHYSICAL CHARACTERISTICS

Weight	2.5 ± 0.5 Kgs
Dimensions (length/width/height)	As per Drawing
Painting	RAL 7040

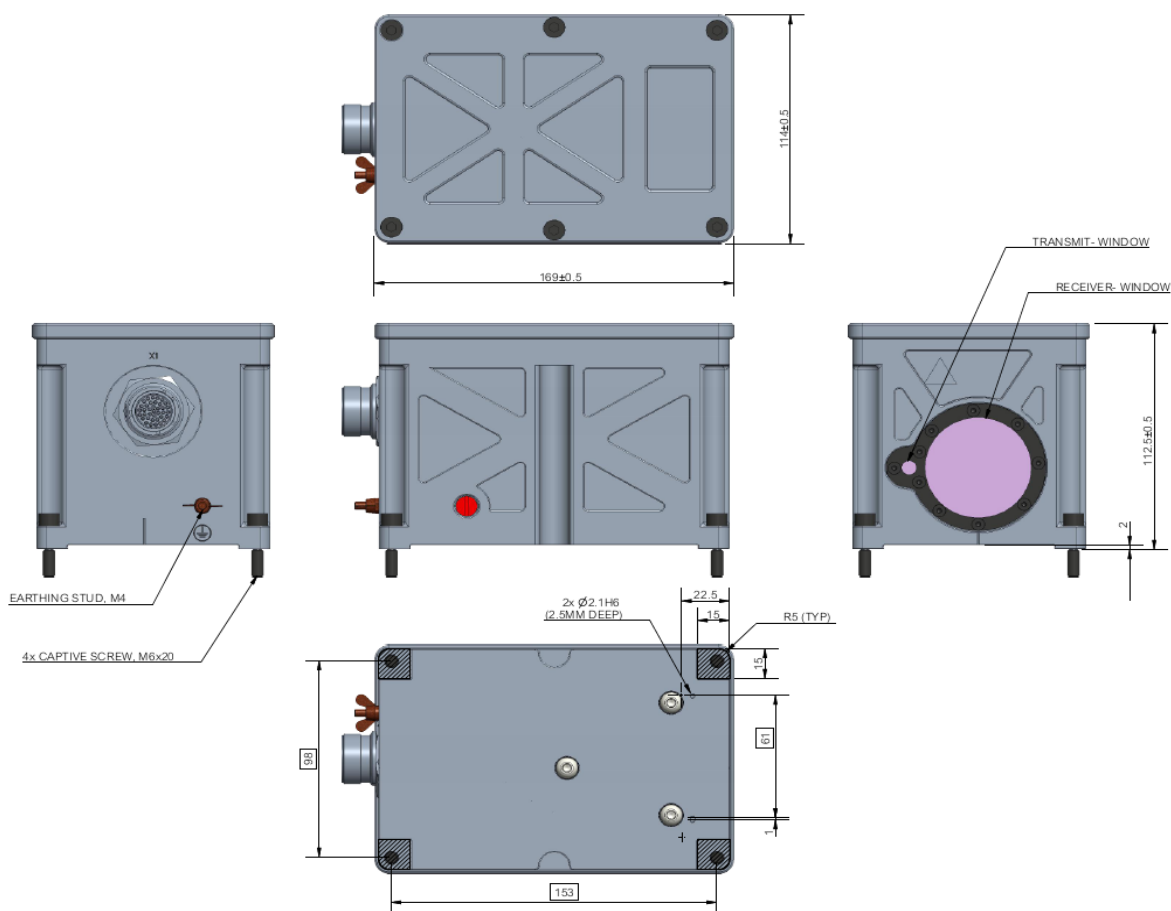
INTERFACES

Communication interface	RS 232, RS 422
Power supply	8 V – 42 V

APPLICATIONS

Sensor suites on naval vessels, airborne or ground vehicles

Fire control systems and remote weapon stations



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