

LRF MOD 25HFLC

ULTRA LONG RANGE LASER RANGEFINDER MODULE



This high-frequency laser rangefinder module enables highly accurate range acquisition of low reflection targets at ranges of up to 30 kilometres. The module can be effectively used in marine navigation, long-range reconnaissance, naval and coast guard patrol, and other professional applications requiring highly accurate, long distance measurements.

Liquid cooling is no longer required for the LRF MOD 25HFLC, which enables higher-frequency data acquisition up to 20Hz with no cooling time required. This gives the system the smallest footprint and weight profile.

Rangefinder	LRF MOD 25HFLC
Eye safety	Class 3R
Wavelength (nm)	1,570
Pulse radiation energy (mJ)	≥18
Beam divergence (mrad)	0.7±0.1
Laser type	Nd: YAG diode pumped, OPO
Distance measurement range, minimum (y)	280
Distance measurement range, maximum (y)	30,000
Distance measurement accuracy (m)	±1
Range resolution (m)	15
Pulse Repetition Rate (Hz)	1 to 20
Operating cycles	
1 Hz ... 5 Hz	Continuous
5 Hz ... 10 Hz	5 min operation, 2 min idle, 10 cycles, 30 min between cycles
11 Hz ... 20 Hz	60 sec operation, 120 sec idle, 10 cycles, 30 min between cycles
Shots (lifetime)	5x10 ⁶
Simultaneously detected targets	3
First/last target logic	Yes
Gating capability	Yes
Warm-up time, max (sec)	30
Mechanics, Electronics & Environmental	
Dimensions without viewfinder (mm)	326x195x112
Weight (kg)	≥5.5
Diameter of receiving optic (mm)	95
Diameter of the transmission channel lens (mm)	40
Mounting position	Any
Cooling	TEC, no liquid cooling
Interface	RS-422
Power source	22 - 32 VDC
Operating temperature range (°C)	-40 to +55
Storage temperature range (°C)	-40 to +55
Enclosure	IP65, has integrated desiccators

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DELIVERY SET

Supplied with the following standard accessories:

- RS-422 cable
- Hard transport case
- LRF communication protocol documentation
- CD with software
- Operation manual



Hard Case



Test Control Cable