

ULTI  
SENSE.

# LRF 3020

Datasheet



**This versatile, compact diode laser OEM range finder module combines excellent range performance with outstanding handling comfort.**

A stable, mechanical structure allows the module to withstand harsh environmental conditions such as temperature, shock and vibration. In addition, the module can be upgraded with an integrated high precision digital magnetic compass. This makes this module ideal for remote weapon stations or fire control systems.

## PRODUCT HIGHLIGHTS

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Weighs only 120 g

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Invisible even for NV goggles

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Available with integrated digital magnetic compass

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Unrestricted eye safe operation

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Weapon shock proof up to 1,500g

## APPLICATIONS

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Remote weapon stations

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Handheld devices

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Observation and surveillance systems

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Coastguard and border protection

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**TECHNICAL DATA**

### PERFORMANCE

Range performance on beamfilling target Reflectivity 60%, Observer visibility 10 km, typical	2,000 m
Range performance (NATO target) Target size 2.3×2.3 m, Reflectivity 30%, Observer visibility 10 km, typical	1,400 m
Accuracy 50 - 1,500 m (1 $\sigma$ )	± 3 m
Accuracy >1,500 m (1 $\sigma$ )	± 5 m
Single measurement repetition rate	0.25 Hz
High repetition rate	1 Hz
Multiple target detection	up to 3 targets
Wavelength	1,550 nm
Divergence typical	2.0×0.3 mrad
Eye safety per IEC 60825-1	Class 1

### ENVIRONMENTAL CHARACTERISTICS

Operating temperature range	-35° C to +55° C
Storage temperature range	-40° C to +85° C
Shock (half sine) at 1 ms in z-direction (line of sight)	1,500 g
Shock (half sine) at 1 ms in x- and y-direction	500 g

### PHYSICAL CHARACTERISTICS

Weight	120 g
Dimensions (length/width/height)	100×50×35 mm

### INTERFACES

Hardware interface	6 pin ERNI MiniBridge
Communication interface	RS232
Power supply	4 V - 12 V
Mechanical interface	3 threaded holes, 2 positioning holes

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