

# Product Summary

## RangePRO Model L20LC Laser Rangefinder Module



*“Advanced digital ranging technology: precise, compact, robust.”*

### Suitability

OEM module for integration into sensing, surveillance, tracking & weapons stations, and thermal imaging cameras; for land, sea or airborne applications; designed to withstand vibration, shock, and extended temperature operation, EM shielded.

### Rangefinding

read-out limits	min.	200;
(factory selectable)	max.	20,000.
performance *	standard (1x1m) **	> 6,500;
	vehicle (2.3x2.3m) ***	> 10,000;
	building (8x8m) ***	> 18,000.

\* Standard Clear atmosphere; Extinction Coefficient 0.0448 @ 1,570nm (Modtran 3 V1.5; tropical atmosphere, maritime aerosols, Jan.); sea level visibility = 23.5km.

\*\* Target albedo = 0.1 @ 1,570nm.

\*\*\* Target albedo = 0.2 @ 1,570nm.

### Sealing

Hermetic.

### Laser Safety

Class 1M. \*\*\*\*

\*\*\*\* AS/NZS IEC60825.1 2011.

Laser rangefinder

20 km range class

Long platform

Flushed framework

### Dimensions

length	273 mm;
width	143 mm;
height	80.3 mm;
mass	3.4 kg.

### Transmitter

laser type	Nd:YAG/OPO;
wavelength	1,565 to 1,575 nm (1,570 nominal);
output	nominally 8mJ [to Class 1M limit];
ranging rate	up to 1Hz [with duty cycle].

### Detector

InGaAs with time variant gain.

### Range Determination

Signals from the detector are digitally sampled and examined to determine all potential real target returns. An adaptive range threshold compensates for changing noise levels, maximising system capability under varying conditions.

### Power

12 to 32Vdc input.

### Comms

RS-232 9,600 Baud.

### Mounting

3-point mount.

### Options

telescope	4X to 12X (pictured)
comms	RS-422 19,200 Baud.



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