

Product Summary

RangePRO Model GSLR-2K-R 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 (factory selectable)	min.	50;
	max.	12,000.
performance *	man (0.45x1.8m) **	3,000;
	vehicle (2.3x2.3m) **	4,500;
	building (large) **	10,000.

* 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 = 0.2 @ 1,570nm.

Sealing

Hermetic.

Laser Safety

Class 1M. ***

*** AS/NZS IEC60825.1 2011.

General

Sighting

Laser

Rangefinder -

2km range class -

Repeat pulse

Dimensions

length	186.5 mm;
width	87 mm;
height	46.5 mm;
mass	0.745 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	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

9 to 33Vdc input.

Comms

RS-422 19,200 Baud.

Mounting

3-point mount, with hole and slot for guide pins.

Options

reference laser	externally mounted red laser diode.
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