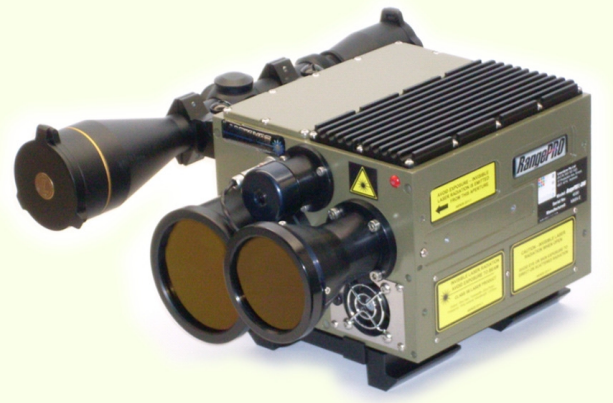
Product Summary

RangePRO Model L-GM5 Laser Rangefinder Module



RangePRO LASER RANGEFINDERS

"Advanced digital rangefinding technology: precise, compact, robust."

Laser rangefinder -
General
Module to
5Hz rep. rate

Dimensions ****	
length	312.6 mm;
width	237.1 mm;
height	143 mm;
mass	5.6 kg.

**** including scope.

Suitability

OEM module for integration into thermal sensing, surveillance, tracking & weapons stations;
for ground mobile and fixed installation applications;
designed to withstand vibration, shock, and extended temperature operation, EM shielded.

Rangefinding

read-out limits (factory selectable)	min.	100;
	max.	30,000.
perform-ance *	small craft (2.3x2.3m) **	> 9,000;
	large craft (20x20m) **	> 20,000.

* 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 = 0.3 @ 1,570nm.

Sealing

Hermetic.

Laser Safety

Class 1M. ***

*** AS/NZS IEC60825.1 2011.

Transmitter

laser type	diode pumped Nd:YAG/OPO;
wavelength	1,570 nm;
output	nominally 8mJ [to Class 1M limit];
ranging rate	5Hz typical, up to 10Hz [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

20 to 32Vdc input.

Comms

RS-422 19,200 Baud.

Mounting

V-block type.

Reference Laser

laser type	laser diode;
wavelength	635 nm;
output	< 0.5mW.

Options

mounting	vertical configuration, 3-point mount;
detector	APD.

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