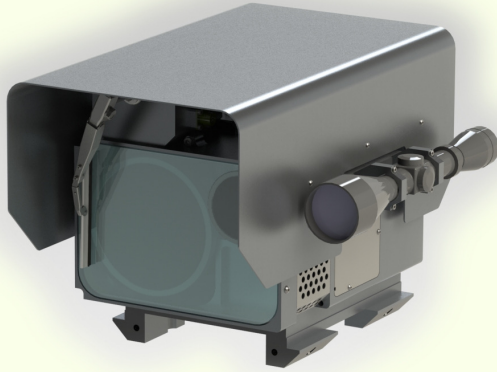


Product Summary

RangePRO Model L-NAV30K Laser Rangefinder Module



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

Laser rangefinder -
NAVAL (maritime)
30km range class

Dimensions	
length	420 mm;
width	317 mm;
height	285 mm;
mass	21.9 kg.

Suitability

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

Rangefinding

read-out limits	min.	200;
(factory selectable)	max.	30,000.
perform- ance *	small craft (2.3x2.3m) **	> 12,000;
	large craft (20x20m) ***	> 25,000.

* 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 = 0.85 @ 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	up to 30Hz [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

detector APD.



A Division of Laserdyne Pty Ltd
A.C.N. 053 743 132

17 Production Ave
Molendinar
Queensland 4214
Australia

Tel: (07) 5594 9772 Int'l Tel: 61 7 5594 9772
Fax: (07) 5594 9981 Int'l Fax: 61 7 5594 9981

email: laserdyne@laserdyne.com.au
website: www.laserdyne.com.au

The information contained herein is proprietary to Laserdyne Pty Ltd. No part of this work may be reproduced or copied in any way without prior written permission of Laserdyne Pty Ltd.

Note: specifications herein are subject to change without notice.

Copyright. All Rights Reserved. Laserdyne Pty Ltd