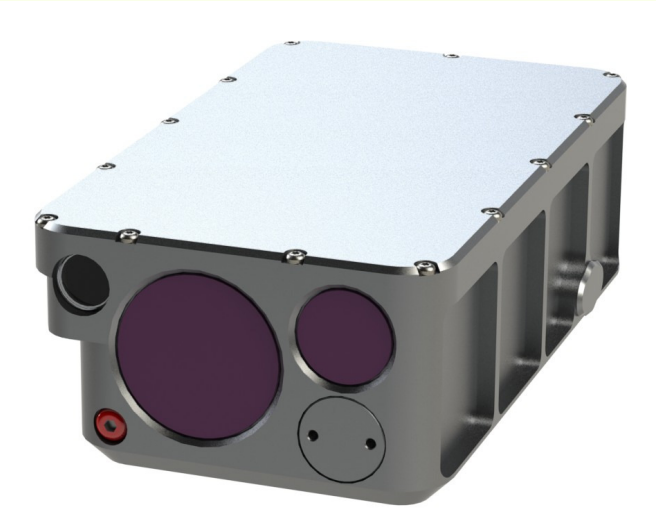
Product Summary

RangePRO Model P-102 Laser Rangefinder Module



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

*P*roject - *102*: compact, high performance, diode pumped laser driven, long range laser rangefinder programme.

Dimensions	
length	162 mm;
width	92.5 mm;
height	53 mm;
mass	0.975 kg.

Suitability

OEM module for integration into sensing, surveillance, tracking & weapons stations, and thermal imaging cameras & gimbals;
state of the art diode pumped laser;
repetitive ranging with long range performance;
for land, sea or airborne applications;
designed to withstand vibration, shock, and extended temperature operation.

Rangefinding

read-out limits	min.	50;
(factory selectable)	max.	30,000.
performance *	man (0.45x1.8m) **	5,500;
	vehicle (2.3x2.3m) **	9,000;
	building (large) **	20,000.

* Standard Clear atmosphere; Extinction Coefficient 0.038 @ 1,570nm (Beta Spec.); sea level visibility = 23.5km.

** Target albedo = 0.3 @ 1,570nm.

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	1Hz typical, to 6Hz burst.

Detector

APD 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

10 to 33Vdc input.

Comms

RS-422 19,200 Baud.

Mounting

3-point mount with guide pins.

Sealing

Hermetic.

Laser Safety

Class 1M. ***

*** AS/NZS IEC60825.1 2011.

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