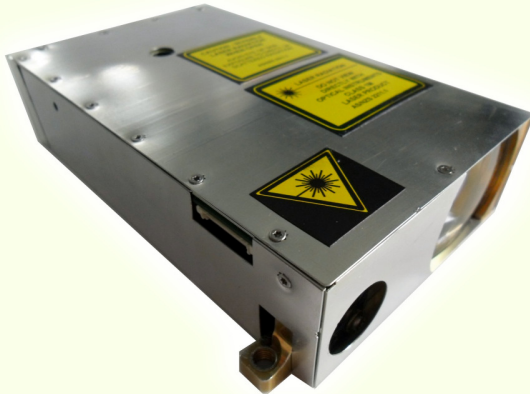


# Product Summary

## RangePRO Model HPCL-10K0 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 & gimbals; for land, sea or airborne applications; designed to withstand vibration, shock, and extended temperature operation.

### Rangefinding

read-out limits	min.	50;
(factory selectable)	max.	20,000.
performance *	man (0.45x1.8m) **	> 5,000;
	vehicle (2.3x2.3m) **	10,000;
	building (8x8m) **	20,000.

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

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

### Sealing

Open frame.

### Laser Safety

Class 1M. \*\*\*

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

High  
Performance  
Compact  
Laser rangefinder -  
10km range class  
Open frame

### Dimensions

length	130.5 mm;
width	79.8 mm;
height	31.8 mm;
mass	0.415 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	single shot (12/minute max.).

### 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

9 to 12Vdc input.

### Comms

RS-422 19,200 Baud.

### Mounting

3-point mount with guide pins.



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