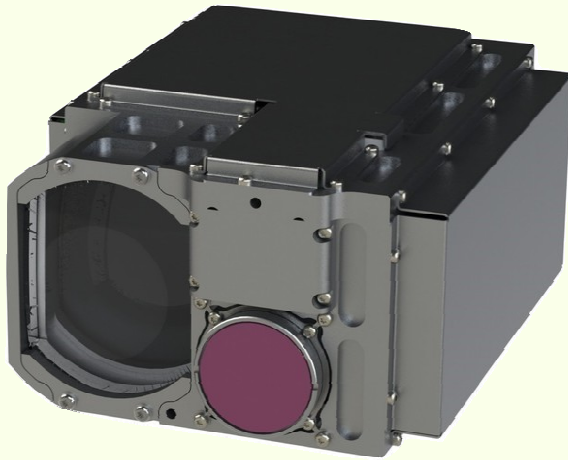


Product Summary

RangePRO Model HPCL-20K0 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 (factory selectable) | min. | 100; |
| | max. | 30,000. |
| performance * | man (0.45x1.8m) ** | > 7,500; |
| | vehicle (2.3x2.3m) ** | 12,000; |
| | building (large) ** | 26,000. |

* 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 -

20km range class

Open frame

Dimensions

| | |
|--------|------------|
| length | 131 mm; |
| width | 107.75 mm; |
| height | 66.9 mm; |
| mass | 0.86 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 to 1Hz 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

12 to 32Vdc input.

Comms

RS-422 19,200 Baud.

Mounting

3-point mount.



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