

OEM LRF Modules

A New Approach to Precision Distance Measurement

LRF100 & 200 Series

Instro's new series of compact eyesafe OEM laser range finder (LRF) modules are designed to allow system integrators to add laser range finder capabilities to surveillance systems efficiently, at low cost and with the minimum of effort.

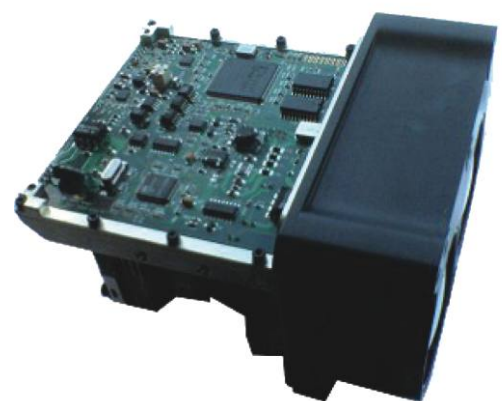
The LRF100 & 200 Series modules are based on new patented technology which improves maximum achievable range and/or precision whilst minimising optical power output.

Modules are controlled via a serial link and are available in a number of configurations currently based around two chassis forms. 'Open frame' versions feature electronic boards and associated optics built around a precision machined optical bench while the addition of an anodised aluminium enclosure completes the 'environmentally sealed' versions.

The LRF100 series is available as an 'open frame' module. Due to its very small size the LRF100 Series module is ideal for integration into hand-held type sensors. The LRF200 Series is available in both 'open frame' and 'environmentally sealed' forms. LRF200 Series modules are intended for integration into larger multi-sensor platforms. Environmentally sealed versions have the option of an optical sight making them suitable for stand alone use.



LRF200



LRF100

- Eye safe 1550nm (nominal)
- Rugged and compact
- Easily integrated
- Accurate
- Low power consumption
- LVTTTL/RS232/422 interface
- First and last capability



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Options**

- Windows PC Starter kit
- Accessory PCB module
- Sealed enclosure
- Chassis version for OEMs
- Vehicle PSU and filtering
- Burst mode
- Multiple target discrimination and reporting
- RS422 control interface
- High Precision Mode (0.1m)
- Optical telescope kit



Outline Specification

	LRF100 Series	LRF200 Series	
Eye Safety	Class 1M Eye Safe		
Wavelength	1550nm (nominal)		
Configuration	Open frame		Sealed frame
Overall Size	96mm x 50mm x 32mm nominal	135mm x 113mm x 84mm nominal	150mm x 113mm x 84mm nominal (excluding connector)
Weight (approx)	110g	0.89Kg	1.24Kg
Mechanical interface	Tapped mounting points on the front and side of the unit	Tapped mounting points on the front and or base of the unit	
Typical range*	2.5Km (4Km LRF100ER)	5 - 8Km	
Maximum measurement range	5Km	10Km	
Minimum measurement range	8m	20m	
Multiple object capability	First/Last reflections are returned		
Data Connections	LVTTTL	External computer RS232	
Environmental	Open Frame		IP67 Sealing
Operating temperature	-30° to +55° Ambient Air Operating temperature	-30° to +50° Ambient Air Operating temperature F411	
Power Supply	3.3 Vdc, ripple <50mVpp		10 to 30Vdc, ripple <100mVpp

*Depending on atmospheric conditions

**Option availability dependant on specific model



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