



MLR-4K

Laser Rangefinder

Features

User Benefits

Single Shot Ranging	Get precise range measurements on moving targets
3 Hz rep rate	Real time measurements
Weighs only 118 g	Ideal for hand held targeting systems
0 Meter Range Capability	Positions user more accurately
Draws 2 watts at 5Hz ranging rate in worst case thermal conditions.	Ideal for precise measurements on moving targets and from a moving platform
<16.6ms latency	Range fast moving targets
+/- 1 meter accuracy	Locate targets more accurately

FLIR's MLR-4K laser rangefinder is a SWaP-optimized military grade, ER:Glass solid state laser rangefinder. The MLR-4K is the smallest and lightest 4,000 meter class1 laser rangefinder available and can fire continuously at up to 3 ranges per second. The unit measures only 34 mm x 54 mm x 89 mm, weighs 118 grams (without cover) and consumes less than 2 watts (when ranging), making it the ideal solution for handheld systems, weapon platforms and stabilized airborne and maritime turrets.

The MLR-4K joins FLIR's popular MLR-K range finder series. We also offer the custom design services and volume manufacturing to meet your specific program requirements. Please visit www.flir.com/oem to see our complete product line.

Applications

- Fire Control Systems
- Stabilized E/O Platforms
- Long Range Surveillance
- Target Tracking
- Altimetry

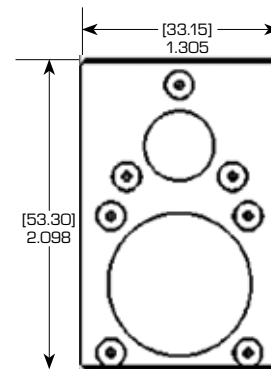
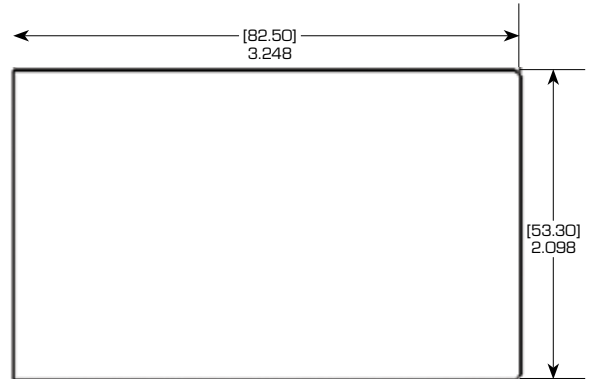
FLIR EOC is a leading designer and seller of highly-efficient semiconductor lasers, low-noise photodetectors and OEM electro-optical sub-systems for commercial and government applications.

Other FLIR EOC Products

- VCSEL (vertical cavity surface emitting lasers) for both pulsed and CW operation
- Miniature laser rangefinders and altimeters
- NIR (830-1064 nm) and SWIR (1550 nm) laser illuminators and pointers
- 2D and linear InGaAs focal plane arrays with up to 1920 x 1080 resolution
- Coded Laser Target Designators
- Engineering services and custom product development

Specifications

Dimensions



FLIR MLR-4K

Eye Safety	Class 1
Typical measuring range	4km, 10% reflectance, 23.5km visibility
Total measurement range	25 - 8,000 m
Guaranteed minimum measuring range	50m, lambertian targets
Measuring accuracy	/- 1 m, 3-sigma, 1 km
Measuring resolution	0.02 m
Multiple target detection	3 targets, 25 m separation
Measuring rate (programmable)	3Hz (<16.6ms latency) (options available)

TRANSMITTER

Laser type	Diode-pumped Er:Glass laser
Operating wavelength	1535 nm
Beam divergence	<0.7 mrad
Transmitter optics diameter	<12mm
Pulse energy	~0.2mJ
Pulse duration	~3ns
Shot number lifetime	8,000,000

RECEIVER

Detector type	APD
Receiver optics diameter	25 mm
Communication interfaces	RS-232

ELECTRICAL PARAMETERS

Power supply (external)	5 V
Maximum power consumption when running full rep rate	2 W
Start-up Time from powered down state	<1 sec (20C)

MECHANICAL

Weight (no Cover)	118g, no cover
Dimensions (L x W x H)	34mm x 54mm x 89mm
Ambient conditions	
Operation temperature	-40°C to + 75°C
Storage temperature	-55°C to + 85°C

*10% target reflectance, 23.5km visibility



FLIR Electro-Optical Components
2223 Eastman Ave, Suite B
Ventura, CA 93003
PH: +1 805.642.4645
FAX: +1 805.644.4752
eocinfo@flir.com

PORTLAND
Corporate Headquarters
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

www.flir.com/cvs

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2013 FLIR Systems, Inc. All rights reserved. (Rev) 042313