



MLR10K-LX

Ultra Lightweight Eyesafe Laser Rangefinder

The MLR10K-LX is FLIR's newest line of kilometer-class (10 km-15 km) OEM laser rangefinders. Designed to minimize Size, Weight and Power (SWaP), the LX is 85 x 30 x 50 mm, weighs less than 115 grams, and consumes less than 3 W of power while ranging. Following FLIR's Commercially-Developed, Military-Qualified (CDMQ®) model, the LX rangefinder series is designed to be suitable for commercial and military applications alike. The LX is ideal for dynamic environments, such as ranging off moving platforms and/or ranging moving targets. Integration into larger assemblies – such as handheld systems, gimbals, masts, or UAVs – is simplified with its small size and multiple mounting features.

FEATURES

- Single shot ranging
- 1 Hz continuous ranging
- Designed for SWaP

USER BENEFITS

- Precise range measurements from moving targets
- Precise, real-time measurements
- Delivers increased range performance over competitive units

SWaP MINDED

Size



85 x 30 x 50 mm

Weight



≤ 115 grams

Power



≤ 3 W Ranging

APPLICATIONS:



Handheld



Gimbal

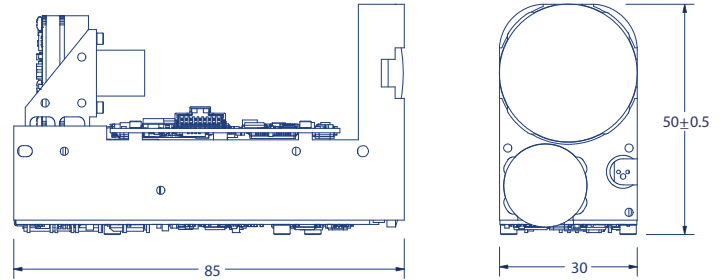


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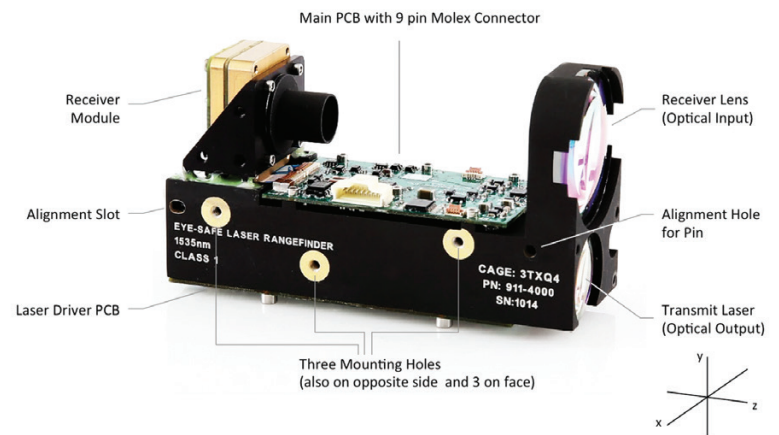
Specifications

Range Performance	Value
Minimum Range	50 m
Maximum Range	16,385 m
Range Reporting Logic	First/Last/All
Target Discrimination	25 m
Range Accuracy	± 1 m
Range Increment	0.1 m
False Alarm Rate	≤ 1%
Optical	
Wavelength	1535 nm
Energy	1 mJ (nominal)
Pulse Rate Frequency	1 Hz
Beam Divergence	≤ 0.7 mrad
Eye Safety	Class 1
LRF Tx Boresight to Housing	≤ 1 mrad radius
LRF Tx Boresight over Temperature	≤ 0.5 mrad radius
Mechanical	
Size (L x W x H)	85 mm x 30 mm x 50 mm
Weight	≤ 115 grams
Electrical	
Power	3.5 – 15 V (5 V recommended)
Connection	9-Pin Molex (Power x 2, Ground x 2, GPIO x 2, t0, RS-232 Tx and Rx)
Communication	RS-232
Input Signals (3.3 V Logic)	Range on rising edge
Output Signals (3.3 V Logic)	t0, pump laser strobe, ready to range
Environmental	
Operating Temperature	-20°C to +50°C (wider operating temperature range available)
Storage Temperature	-40°C to +71°C
Shock	40 g, 11 ms, per MIL-STD-810G, Method 516.6, Procedure I
Vibration	Minimum integrity vibration, per MIL-STD-810G, Method 516.6, Procedure I

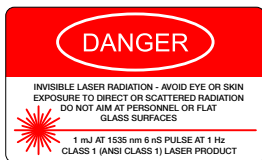
Available Configurations	Part Number
MLR10K-LX	911-4000



Mechanical Overview



Laser Rangefinder



ITAR

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