

# FLIR MLR10K-LX™

## Ultra Lightweight 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 Watts 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 ample 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 50.3 mm

Weight



<115 grams

Power



<3 W Ranging

### APPLICATIONS:



Handheld



Gimbal

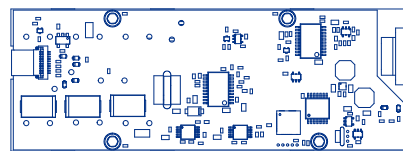
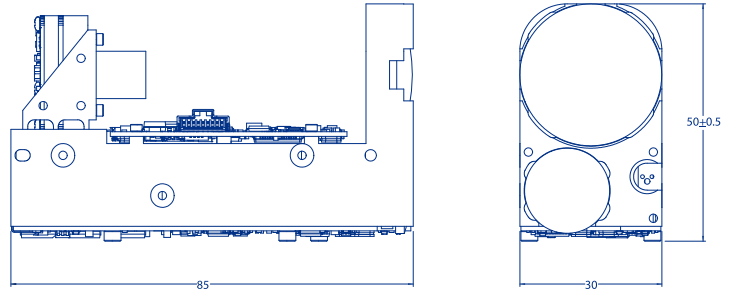


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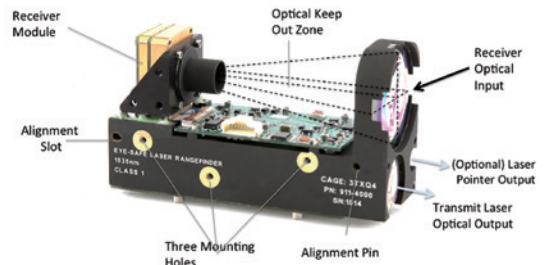
# Specifications

Range Performance	Value
Minimum Range	50 meters
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	≤ 1 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 50.3 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
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
with Optional NIR Reference Pointer	
Wavelength	850 nm
Power	0.6 to 25 mW (toggle between low and high via RS-232 commands)
Pulsed/CW	Continuous Wave
Eye Safety	Class 1 (Low), Class 3B (High)
NOHD	0 meters (Class 1) and <92 meters (Class 3B)

Available Configurations	Part Number
No Pointer	911-4000
NIR Pointer	911-4001



## Mechanical Overview



**CORPORATE HEADQUARTERS**  
 FLIR Systems, Inc.  
 27700 SW Parkway Ave.  
 Wilsonville, OR 97070  
 PH: +1 877.773.3547

**CHINA**  
 FLIR Systems Co., Ltd  
 Room 502, West Wing, Hanwei Building  
 No. 7 Guanghua Ave.  
 Chaoyang District, Beijing 100004, China  
 Phone: +86 10-59797755

**SANTA BARBARA**  
 FLIR Systems, Inc.  
 6769 Hollister Ave.  
 Goleta, CA 93117  
 PH: +1 805.690.6602

**EUROPE**  
 FLIR Systems, Inc.  
 Luxembourgstraat 2  
 2321 Meer  
 Belgium  
 PH: +32 (0) 3665 5100

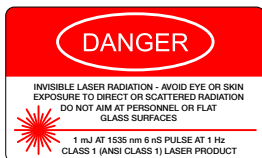
www.flir.com  
 NASDAQ: FLIR

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## ITAR

### Laser Rangefinder



### Reference Pointer

