

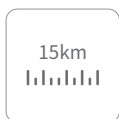
LR Series

Eye-Safe Laser RangeFinder Module

LR series eye-safe rangefinder module is self-developed by Raythink based on 1,535nm erbium glass laser. It is a Class1 product for human eye safety. The module is composed of a laser module, transmitting antenna, receiving antenna, circuit board, structure, etc. Characterized by light weight, compact dimensions, and stable performance, the product can be applied in photoelectric devices such as handheld devices, vehicle-mounted devices, and pods.



Product Highlights



Ultra-Long Distance



Class 1 Eye-Safe



Ultra-Light Weight



Ultra-Compact
Dimensions



Mono-pulse
Rangefinding



Super Stable

Applications



Commercial Drone



Outdoor Observation



Engineering Survey



Security PTZ

Specifications

Product Series		LR Series			
Product Model		LR12000		LR15000	
Basic Features					
Laser Wavelength		1535nm±5nm			
Eye Safety Level		Class 1/1M			
Laser Divergence Angle		~0.3mrad			
Ranging Performance (Buildings)		50~16000m		100~20000m	
Ranging Performance(2.3 × 2.3 m Vehicles)		50~12000m		100~15000m	
Ranging Frequency		1~10Hz (adjustable)			
Ranging Accuracy		±2m			
Accurate Measuring Rate		≥98%			
False Alarm Rate		≤1%			
Multi-target Detection		Up to 3			
Electrical Indicators					
Communication Interface		UART (TTL_3.3V)		RS422	
Operating Power Consumption		≤3.5W@10Hz		≤5W@5Hz	
Physical Properties					
Weight		127g±2g		≤ 290g	
Dimensions		82mm×58mm×47mm		92mm×60mm×74mm	
Shock		75g 6ms			
Vibration		0.01~0.04g2/Hz,20~2000Hz			
Environmental Adaptability					
Operating Case Temperature		-20°C~ +70°C		-40°C~ +65°C	
Storage Case Temperature		-20°C~ +75°C		-55°C~ +75°C	

Company Profile

Raytron Microelectronics Co., Ltd. is a wholly-owned subsidiary of Raytron Technology Co., Ltd., providing global customers with infrared detectors, core modules, and industry solutions.

Our products are widely used in various fields, including infrared temperature measurement, night vision observation, machine vision, intelligent driving, Commercial Drone, smart industry, security monitoring, Internet of Things, medical epidemic prevention and gas detection.

With the mission of "to create incremental value for customers with technological advancements", we are committed to leaving a name in the history of constantly expanding human perception capabilities.



Official Website



LinkedIn Official Account

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