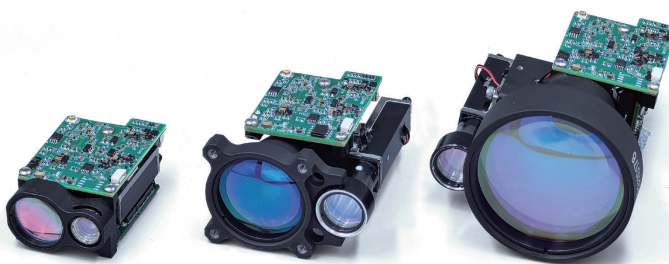




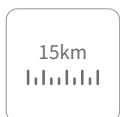
LR Series

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



UAV



High Performance Pods



Engineering Survey



Security PTZ

Specifications

Model		LR3000	LR6000	LR8000	LR12000	LR15000
Basic Features						
Laser Wavelength		1535±5 nm				
Eye-safe Class		Class 1				
Laser Divergence Angle		~0.6mrad	~0.3mrad			
Maximum Range	Building	4200m	7100m	10000m	16000m	20000m
	Vehicle	3500m	6000m	8000m	12000m	15000m
	Human (0.5×1.7m)	2000m	3800m	4500m	5900m	6700m
	UAV (0.2×0.3m)	1000m	2000m	2600m	3200m	3700m
Minimum Range		20m			50m	100m
Measuring Accuracy		±1m			±2m	
Measuring Frequency		1~10Hz (adjustable)				1~5Hz
Emitting Aperture		Φ7.5mm	Φ12mm			Φ14mm
Receiver Aperture		Φ16mm	Φ25mm		Φ40mm	Φ52mm
Detection Probability		≥98%				
False Alarm Rate		≤1%				
Multi-Target Detection		Up to 3				Up to 5
Range Resolution		20m	30m			
Electrical Characteristics						
Communication Interface		UART (TTL_3.3V)				RS422
Baud Rate		9600/57600/115200 (default)				
Power Supply Mode		DC4.5-16V				DC 9~15V
Power Consumption		≤2W				≤4W
Peak Power Consumption		7w@12V				14W @ 12 V
Standby Power Consumption		≤1mW (set Power_on to a lower value)				≤60mW
Physical Characteristics						
Weight		32±1g	58±1g		127±2g	≤ 310g
Dimensions		48×31×25mm	65×48×32mm		82×59×47mm	104×64×73mm
Shock		1200g, 1ms	75g, 6ms			
Vibration		5~50~5Hz, 1 octave/min, 2.5g	0.01~0.04g2/Hz,20~2000Hz			
Environment Adaptability						
Operating Temperature		-40~+70°C				
Storage Temperature		-55~+75°C				

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The information is for illustrative purposes only. The pictures and technical specifications are subject to change without notice. Sample No.: O2024-Photon C330B-2P001