LRF1550S Eye-Safe Laser Rangefinding Module

Product Features

- Ultra-long rangefinding, industry-leading detection distance
- Ultra-light weight, the lightest rangefinding module in the industry with a comparable performance
- High measuring frequency up to 10Hz

Applications

- Airborne PTZ, border and sea defense, high performance pods, vehicle-mounted optoelectronics

20km
Remote Measuring

Class 1 Eye-Safe

Light Weight

Compact Size

Stable Performance

Mono-Pulse Rangefinding

Airborne PTZ

Border and Sea Defense

High Performance Pods

Vehicle-Mounted Optoelectronics

Model	LRF1550S		
Eye-Safe	Class1/1M		
Laser Wavelength	1535±5nm		
Optical Receiving Aperture	Φ52mm		
Beam Divergence Angle	~0.3mrad		
Dimensions (L×w×h)	104×64×73mm		
Maximum Range	Large Targets	20000m[2)]	
	Vehicle	15000m[2)]	
	Person	6700m[2)]	
	Uav	3700m[2)]	
Minimum Range	100m		
Weight	≤ 330g		
Measuring Frequency	1~5Hz		
Distance Measuring Accuracy	±2m		
Range Resolution	30m		
Accuracy	≥ 98%		
False Alarm Rate	≤ 1%		
Multi-Target Detections	Up to 5 targets		
Data Interface	UART(TTL_3.3V)		
Power Supply	DC 9~15V		
Standby Power Consumption	≤ 200mW		
Peak Power Consumption	≤ 10W		
Operating Temperature	-40°C~+65°C		
Storage Temperature	-55°C~+75°C		
Vibration	0.01~0.04g2/Hz,20~2000Hz		
Shock	75g，6ms		

Notes: 1) Vehicle target size: 2.3m × 4.6m; human target size: 0.5m × 1.7m; UAV target size: 0.2m × 0.3m; reflectance: 30%, visibility ≥ 15km;

2) Vehicle target size: 2.3m × 4.6m; human target size: 0.5m × 1.7m; UAV target size: 0.2m × 0.3m; reflectance: 30%, visibility ≥ 23.5km.