

UL-LRF-3 Eyesafe Laser Rangefinder



DESCRIPTION

The UL-LRF-3 laser rangefinder is characterized by its eyesafe design, compact size, lightweight construction, low power consumption, long lifespan, and wide temperature range. As a result of these features, it has found wide usage in applications such as reconnaissance, surveying, and mapping.

This laser rangefinder module lacks an external shell but includes a broad selection of interfaces, making it simple to integrate into any system. Additionally, PC software and communication protocols are available to assist users in utilizing the device with handheld devices and multifunction systems.

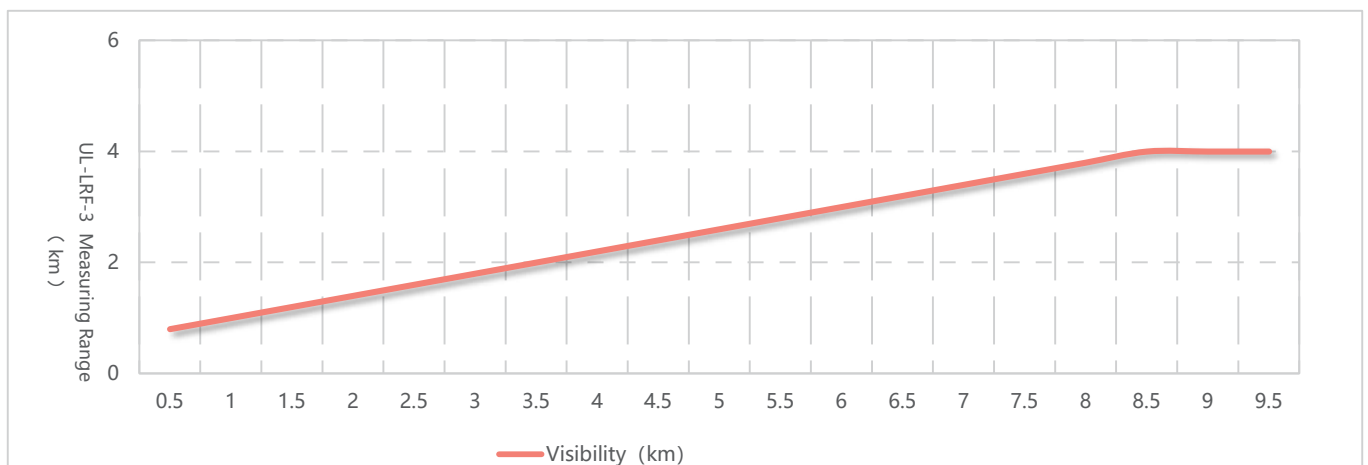
FEATURES

- Single shot ranging and continuous ranging
- 3-target detection, front and back target indication
- Contain self-checking function
- Wake-on-lan function
- Number of emitted pulses during MNBF $\geq 1 \times 10^6$ times

APPLICATIONS

- Handheld devices
- Unmanned aerial vehicle
- Electro-optical pod
- Border surveillance

PERFORMANCE



UL-LRF-3 Eyesafe Laser Rangefinder

SPECIFICATIONS

Parameters	Unit	UL-LRF-3	Comments
Safety Class	-	Class 1	Eye safe
Wavelength	nm	1535±5	—
Max Measuring Range	m	≥3000	Target of 2.3mx2.3m visibility of 8km
Min Measuring Range	m	≤20	—
Range Accuracy	m	±2	Affected by weather conditions and target reflectivity
Measuring Rate	Hz	0.5-10	—
Multiple Targets	-	5	—
Precision	%	≥98%	—
False Alarm Rate	%	≤1%	Probability of occurrence of noise
Dimensions	mm	50x36.5x26	LxWxH
Weight	g	≤55	—
Data Interface	-	molex-532610771	Other interfaces can be customized
Power Supply	V	5	—
Peak Power Consumption	W	2	Max power consumption when start up
Standby Power Consumption	W	1.2	Function to be shut down by external signal can be customized
Vibration	-	5Hz, 2.5g	—
Shock	-	Axial 100g, 1ms	Can be increased based on user's application scenarios
Operation Temperature	°C	-40~+65	—
Storage Temperature	°C	-55~+70	—

STRUCTURAL DRAWING (In mm)

