

TF-Luna is a single-point ranging LiDAR, based on ToF principle. Mainly used for stable, accuracy and high-frame rate range detection.

The product is built with algorithms adapted to various application environments and adopts multiple adjustable configurations and parameters so as to offer excellent distance measurement performances in complex application fields and scenarios.



Main product features

- Small size
- Light weight
- Low power consumption
- Low cost

Main application scenarios

- Auxiliary focus
- Elevator projection
- Intrusion detection
- Level measurement

SPECIFICATIONS

Description		Parameter value
Product performance	Operating range	0.2m~8m(90%reflectivity indoor 0klux) ¹ 0.2m~2.5m(10%reflectivity indoor 0klux) ² 0.2m~8m(90%reflectivity outdoor 90klux) 0.2m~2.5m(10%reflectivity outdoor 90klux)
	Accuracy	±6cm@(0.2m-3m) ³ ±2%@(3m-8m)
	Distance resolution	1cm
	Frame rate	1-250Hz ⁴
	Ambient light immunity	70Klux
	Operation temperature	-10°C~60°C
	Enclose rating	/
Optical parameters	Light source	VCSEL
	Central wavelength	850nm
	Photobiological safety	Class1 (IEC60825)
	FOV	2° ⁵
Electrical parameters	Supply voltage	3.7V-5.2V
	Average current	≤70mA

¹ Range based on the indoor test with the standard white board (90% reflectivity) at 25°C as the detection object;

² Range based on the indoor test with the standard white board (90% reflectivity) at 25°C as the detection object;

³ Accuracy based on the indoor test with the standard white board (90% reflectivity) at 25°C as the detection object;

⁴ The Highest frame rate is 250Hz, the default frame rate is 100Hz. The customized update rate should be calculated by the formula: 500/n (n is more than 2),;

⁵ This is a theoretical reference value.

