

15km Laser Rangefinder Module



JIO-H1520X adopts the 1535nm eye-safe erbium glass laser module independently developed by Jioptics, which has the characteristics of low power consumption, small size, high precision.

Maximum measuring range: 15000m (2.3x2.3m NATO Target); Max Ranging 20000m.

Ranging accuracy $\pm 2\text{m}$

Measurement accuracy $\geq 98\%$

Weight $\leq 870\text{g}$

Product Introduction

The JIO-H1520X laser rangefinder consists of a laser, a transmitter-receiver optical system, a driver power supply board, an amplifier board and a main control board. The structural parts are made of aluminum alloy with oxidized surface and fixed with 3 M2.5 threaded holes. The product is mainly used for target distance measurement, suitable for UAV, thermal imaging, security equipment and other optoelectronic system integration, can realize the first and last target ranging, self-check information response, fault localization failure mode feedback and other functions, has a small size, light weight, high precision, easy to integrate, strong environmental adaptability and other characteristics.

Parameters

Module	JIO-H1520X	
Operating wavelength	1.535nm	
Eye-Safe	Class 1 (IEC 60825-1)	
Receiving Aperture	Φ65mm	
Ranging range	100-20000m	
Ranging capability	≥20000m	Maximum range
	≥18000m	Big Target (Reflectivity 30 %, Observer visibility 25 km)
	≥15000m	2.3 × 2.3m NOTA Target (Reflectivity 30 %, Observer visibility 25 km)
Ranging capability (10% reflectivity, 10Km visibility)	≥7000m	1 ×1 m target
	≥6000m	1.7 ×0.5m Person target
	≥4500m	0.3×0.2m UAV target
Mini Range	≤50m	
Ranging accuracy	≤2m	
Ranging frequency	1~5Hz	
Accuracy rate	≥98%	
Divergence angle	≤0.5mrad	
Size	132.2×74.5×102.7mm(Without connector)	
Weight	≤870g	
Voltage	22V~34V	
Average Power	≤10W	
Working temperature	-40℃~+60℃	
Storage temperature	-50℃~+70℃	

Note: All performance indicators and interfaces can be customized according to requirements

Size

