LRF0150

1535nm LASER RANGEFINDER MODULE-1200

OVERVIEW

This miniature rangefinder module is designed specifically for human distance measurement, embodying cutting-edge measurement technology in a compact form. Operating efficiently at a wavelength of 1535nm, this small yet powerful module achieves a range of \geq 1200 meters for human measurement and \geq 6000 meters for larger targets, with an accuracy of ±1 meter. With its unique design, lightweight construction of under 35 grams, and substantial performance, its design has your convenience in mind.

The rangefinder module's speed and reliability, with a ranging frequency between 1-10Hz, achieve a measurement accuracy rate of over 98%. The false alarm rate is less than 1%, allowing you to trust the module's data without post-assessment



guesswork. The device's divergence angle is less than 1mrad, with a receiver aperture of 20mm, ensuring optimal performance in diverse environments.

D TECHNICAL SPECIFICATIONS

Project	Technical Parameters
Laser Wavelength	1535±1nm
Ranging range	People: ≥30m-1200m
	Vehicles (2.3m x 2.3m): ≥3000m
	Buildings: ≥6000m
Ranging Accuracy	±1m
Ranging Frequency	1~10Hz
Quasi Measurement Rate	≥98%
False Alarm Rate	≤1%
Divergence Angle	≤1mrad
Receiving Caliber	20mm
Communication Interface	422
Power Supply Voltage	5V
Dimensions	Φ24mm x 56.5mm
Weight	≤35g
Operating Temperature Range	-40°C-+60°C
Storage Temperature Range	-55°C-+70°C