Basic Information

• Place of Origin: SHENZHEN • Brand Name: FOVA CE;FCC Certification: YZT-CJ-1010A-3 Model Number:

Minimum Order Quantity: 10

 Packaging Details: 79mmx60mmx46.5mm Delivery Time: 7-15work days Payment Terms:

Supply Ability: 10000PCS/Month



Product Specification

• Highlight: 10km Laser Range Finder Module, Laser Range Finder Module 1535nm laser position sensors



More Images











Product Description

 $10 km \ Laser \ Range \ Finder \ Module \ , Small \ size \ and \ lightweight, 1535 nm \ Laser \ Range finder \ Module \ , Small \ size \ and \ lightweight, 1535 nm \ Laser \ Range \ finder \ Module \ , Small \ size \ and \ lightweight, 1535 nm \ Laser \ Range \ finder \ Module \ , Small \ size \ and \ lightweight, 1535 nm \ Laser \ Range \ finder \ Module \ , Small \ size \ and \ lightweight, 1535 nm \ Laser \ Range \ finder \ Module \ , Small \ size \ and \ lightweight, 1535 nm \ Laser \ Range \ finder \ Module \ , Small \ size \ and \ lightweight, 1535 nm \ Laser \ Range \ finder \ Module \ , Small \ size \ finder \ , Small \ size \ , Small \ , Small \ size \ , Small \ size \ , Small \ size \ , Small \ size$

YZT-CJ -1010A Laser Range Finder Module

Technical Specification

YZT-CJ-1010A laser ranging module is the eye safety laser ranging module in the photoelectric system, which can detect the target distance and transmit the measured distance to the host computer through serial communication.

Structure composition and main function index
The YZT-CJ-1010A laser ranging module consists of a laser, a transmitting optical system, a receiving optical system and a control circuit. The main performance is as follows:

2.1 Operating range
Visibility under visible conditions is not less than 15km, diffuse reflectance ≥0.3, humidity ≤80%, the vehicle (2.3m×2.3m target) ranging distance ≥10km.

2.2 Features

The main functions of the laser ranging module are:

- a) single ranging and continuous ranging;
- b) Range strobe, front and rear target indication;
- c) Self-inspection function.

2.3 Performance

Wavelength: 1535nm±5nm; Laser divergence Angle: ≤0.3mrad;

Continuous ranging frequency: 1~10Hz adjustable;

Ranging accuracy: ≤±2m (RMS);

Accuracy: ≥98%;

Minimum measuring range: ≤50m; Ranging resolution: ≤30m (multi-target);

Power supply voltage: DC9V ~ 16V (can be customized);

Weight: ≤140g;

Power: average power consumption ≤1.5W (1Hz operation), peak power consumption ≤5W; Size: ≤83mm×68mm×46mm;

Working temperature: -40 \sim +60 ; Storage temperature: -50 \sim +70 ;

2.4 Interface

Communication interface: RS422, 115200bps

Electrical interface: The interface model is Molex connector 51021-0800. The interface definition is described in the following table.

8P socket wiring definition			
No.	Definition	Wire color	Remarks
1	RS422 RX+	Brown	RS422 receive +
2	RS422 RX-	Blue	RS422 receive -
3	RS422 TX-	Yellow	RS422 send -
4	RS422 TX+	Purple	RS422 send +
5	GND	White	Communication interface
6	+12V	Red	Power supply
7	GND	Black	Power supply earthing
8	Empty	Green	Empty

Installation dimension

3. Precautions for use

The laser emitted by the rangefinder is 1535nm for human eye safety laser, although it is a human eye safety wavelength, but it is recommended not to look directly at the laser;

When adjusting the parallelism of the optical axis, the receiving lens must be blocked, otherwise the detector will be permanently damaged

The measuring module is non-airtight, and must ensure that the relative humidity of the use environment is less than 80%, and ensure that the use of the environment is clean and sanitary, so as not to damage the laser;

The range measurement of the rangefinder is related to the atmospheric visibility and the nature of the target, and the range measurement will be reduced in the case of fog, rain and wind sand. Green leaf clusters, white walls, exposed limestone and other targets have better reflectivity, which can increase the measurement range. In addition, when the Angle of the target to the laser beam increases, the measurement range will be reduced.

It is strictly forbidden to emit laser to strong reflection targets such as glass and white walls within 50 meters, so as to avoid too strong echo, resulting in damage to the APD detector;

Do not plug and unplug the cable in the energized state;

Ensure that the power supply polarity connection is correct, otherwise it will cause permanent damage to the equipment;







● +86 13410031670 allenxiao1003@gmail.com fovapower.com

Shenzhen



23F, Building B, Fujian Building, No. 2048 Caitian Road, Fushan Community, Futian Street, Futian District,