

10km laser rangefinder Eye Safe Digital Laser Distance Meter Industrial Laser Distance Sensor with Pulse Duration <10 ns

Our Product Introduction

for more products please visit us on fovapower.com

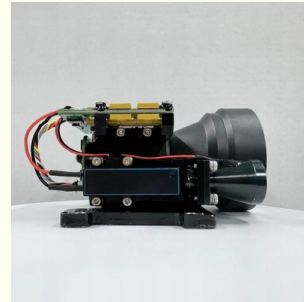
Basic Information

- Place of Origin: SHENZHEN
- Brand Name: FOVA
- Certification: CE;FCC
- Model Number: YZT-CJ-0810A
- Minimum Order Quantity: 10PCS
- Packaging Details: 27mmx22mmx17mm
- Delivery Time: 7-15 working day
- Payment Terms: T/T
- Supply Ability: 100000Pcs/Month

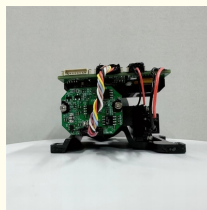
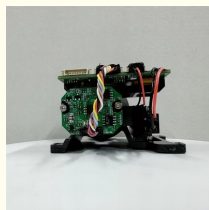


Product Specification

- Dimensions: 790 Mm X 600 Mm X 465 Mm
- Pulse Duration: Less Than 10 Ns
- Advantage: Eye-safe
- Measurement Range: 20~5000m
- Frequency: 1 Hz
- Function: Measuring Distance
- Voltage Supply: DC6 ~ 36
- Accuracy: ± 1 Meter
- Highlight: 10km Laser Rangefinder,
Industrial Laser Rangefinder,
Digital Laser Distance Meter



More Images



Product Description

YZT-CJ-0810A
Laser Range Finder Module

Our Product Introduction



Technical Specification

General

YZT-CJ-0810A 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-0810A 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 12km, diffuse reflectance ≥ 0.3 , humidity $\leq 80\%$, the vehicle (2.3m \times 2.3m target) ranging distance ≥ 8 km.

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 \pm 5nm;

Laser divergence Angle: ≤ 0.3 mrad;

Continuous ranging frequency: 1~10Hz adjustable;

Ranging accuracy: $\leq \pm 2$ m (RMS);

Accuracy: $\geq 98\%$;

Minimum measuring range: ≤ 30 m;

Ranging resolution: ≤ 30 m (multi-target);

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

Weight: ≤ 120 g;

Power: average power consumption ≤ 1.5 W (1Hz operation), peak power consumption ≤ 5 W;

Size: ≤ 80 mm \times 47mm \times 59mm;

Working temperature: -40°C ~ $+60^{\circ}\text{C}$;

Storage temperature: -50°C ~ $+70^{\circ}\text{C}$;

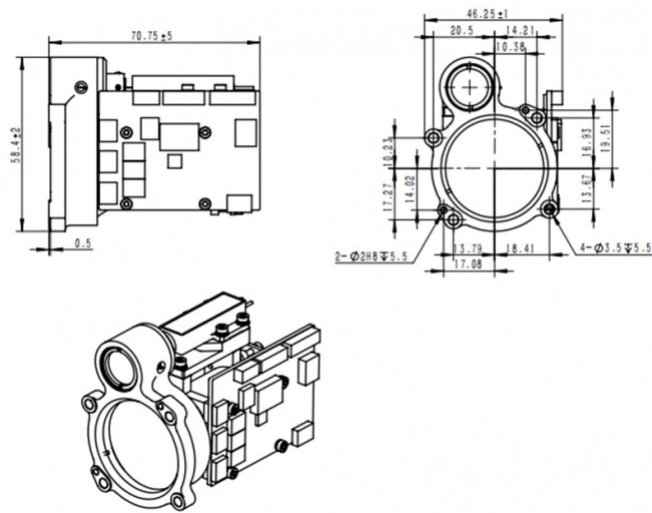
2.4 Interface

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	Reserved	Empty	Reserved

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 due to excessive echo;

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 20 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;

Product Description:

With a wavelength of 1550 Nm, this laser ranging product delivers high precision measurements with ease. Its average power consumption is also $\leq 2w$, making it an energy-efficient tool.

The Laser Ranging product is perfect for use in a variety of settings, including surveying, robotics, and automation. Its high-precision distance sensing capabilities make it an ideal tool for measuring distances with accuracy and precision.

In addition to its performance capabilities, the Laser Ranging product comes with a 1-year warranty, ensuring that you can rely on it for years to come.

If you're looking for a high-precision distance sensor that delivers accurate measurements without any red flash, the Laser Ranging product is the perfect tool for you. Its small size and energy-efficient design make it perfect for use in a variety of settings, while its 1-year warranty ensures that you can rely on it for years to come.

Technical Parameters:

Application	Surveying, Mapping, Geodesy
Dimensions	790 Mm X 600 Mm X 465 Mm
Accuracy	± 1 Meter
Resolution	0.1 Meter
Interface	RS232/RS422
Laser divergence angle	$\leq 0.5mrad$
Power	Low Power Consumption
Operating Temperature	-40°C To 60°C
Voltage supply	DC6 ~ 36
Stealth Ranging	No Red Flash

This product is an Infrared Laser Pointer, Digital Laser Distance Meter, and High Precision Distance Sensor.

Applications:

The FOVA YZT-CJ-0810A is a high precision laser distance sensor that is suitable for a variety of applications. Its primary function is to accurately measure distances using an infrared laser pointer. The product is designed for industrial use and is manufactured in SHENZHEN, with a certification of CE. It has a minimum order quantity of 10PCS and comes in a packaging size of 27mmx22mmx17mm. The delivery time is usually between 7-15 working days, and payment terms are T/T. The product has a supply ability of 10000Pcs/Month.

The FOVA YZT-CJ-0810A is ideal for applications that require high precision measurements. It is commonly used in manufacturing, construction, robotics, and automation. The low power consumption of this product makes it an excellent choice for applications that require continuous operation. The operating temperature range of this product is -40°C to 60°C, which makes it suitable for use in extreme environments.

The FOVA YZT-CJ-0810A is a high precision laser distance sensor that has a pulse duration of less than 10 Ns. This feature makes it an excellent choice for applications that require accurate and precise measurements. The product has a frequency of 1 Hz, which means that it can measure distances quickly and efficiently. The product is designed to be durable and reliable, making it ideal for use in harsh industrial environments.

The FOVA YZT-CJ-0810A is ideal for a variety of applications, including measuring distances in manufacturing and construction, robotics, and automation. The product is designed to be easy to use and comes with a user manual. The product is also designed to be easy to install, with simple wiring and mounting instructions included. The product has a high precision laser distance sensor, which makes it ideal for applications that require accurate measurements.

In conclusion, the FOVA YZT-CJ-0810A is a high precision laser distance sensor that is ideal for industrial applications. The product is designed to be durable and reliable, making it an excellent choice for use in harsh environments. The product is easy to use and install, and comes with a user manual and simple wiring and mounting instructions. The product is suitable for a variety of applications, including measuring distances in manufacturing and construction, robotics, and automation.

Packing and Shipping:

Product Packaging:
One Laser Ranging device
One user manual

One charging cable
Protective carrying case
Shipping:
Ships within 1-2 business days
Free shipping within the United States
International shipping available with additional fees
Tracking number provided upon shipment

FAQ:

Q: What is the brand name of this laser ranging product?
A: The brand name of this laser ranging product is FOVA.
Q: What is the model number of this laser ranging product?
A: The model number of this laser ranging product is YZT-CJ-0810A.
Q: Where is this laser ranging product manufactured?
A: This laser ranging product is manufactured in SHENZHEN.
Q: Is this laser ranging product certified?
A: Yes, this laser ranging product is certified with CE.
Q: What is the minimum order quantity for this laser ranging product?
A: The minimum order quantity for this laser ranging product is 10PCS.
Q: What are the packaging details for this laser ranging product?
A: The packaging details for this laser ranging product are 27mmx22mmx17mm.
Q: What is the delivery time for this laser ranging product?
A: The delivery time for this laser ranging product is 7-15 working days.
Q: What are the payment terms for this laser ranging product?
A: The payment terms for this laser ranging product are T/T.
Q: What is the supply ability of this laser ranging product?
A: The supply ability of this laser ranging product is 10000Pcs/Month.



Shenzhen FOVA Technology Co.,Ltd



+86 19806733949



allenxiao1003@gmail.com



fovapower.com

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