Optical ranging module

These compact, rugged modules deliver the same advanced laser, optical, and electronic performance found in our field-ready devices, including NATO-certified measurement ranges and detailed ...

This article designs an optical system suitable for high-precision ranging, which not only integrates transceiver and receiver, but also uses a continuous zoom structure, which has the ...

You can use it with any 3-5V power supply or logic microcontroller. ...

This eye safety-certified laser module excels in delivering accurate distance readings, crucial for diverse applications requiring the utmost precision and reliability. This product is mainly used in laser ...

Our laser rangefinder modules are minimal in weight and size while maintaining top performance. This is why Ultisense sensors are used in military and civilian applications where high performance and ...

IADIY provides small, lightweight, high-precision, and eye-safe laser rangefinder module (LRF module) for distance measurement, speed detection, and laser ranging applications.

In this study, we successfully developed an engineering prototype of a coaxial laser ranging module that utilizes the time-of-flight method for distance measurement.

Unlike most distance sensors that rely on reflected light intensity or reflected angles to determine the range, the VL6180 uses a precise clock to measure the time it takes light to bounce back from a ...

You can use it with any 3-5V power supply or logic microcontroller. Features: 1. Integrated intelligent optical module, which can be used for proximity sensing, ranging and other ...

The VL6180X is a compact, high-accuracy distance sensor module that uses Time-of-Flight (ToF) technology for measuring the absolute distance to objects.

The VL6180/VL6180X Optical Ranging Sensor Module, developed by STMicroelectronics, is a compact and high-performance sensor designed to provide accurate ...

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