

# Laser Lidar\_CS10

## Product Manual



### Product description

CS10 is a cost-effective range finder module. It uses TOF technology to obtain objects distance information. Data is transmitted through serial port. The 815nm or 905nm laser wavelength is used as the active light source. The detection range is from 0.05m to 14m, and the absolute accuracy is within 3cm.

### Features

- Typical measurement range: 0.05~ 14m@ 60% reflectivity
- Absolute accuracy  $\leq 3\text{cm}$
- Frame rate: 1.8K/3.6K/7.2K

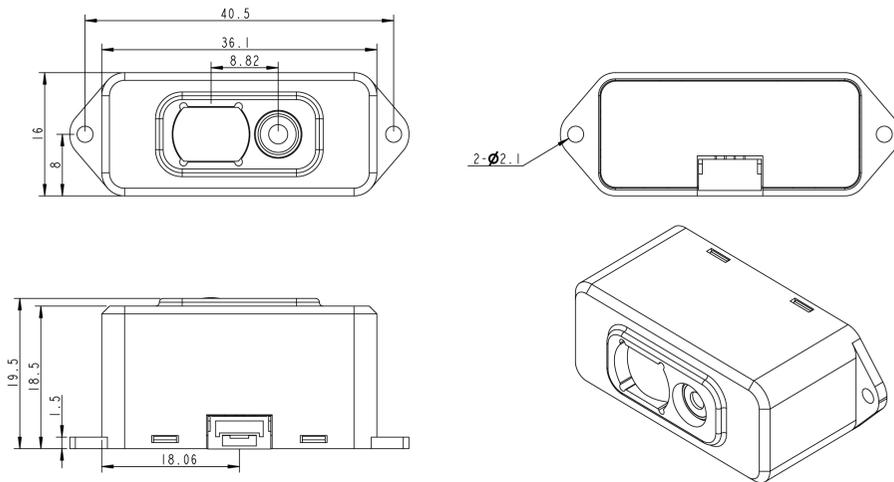
### Applications

- Sweeper SLAM
- Industrial measurement
- Projector assisted focusing
- Liquid level detection
- Parking space detection
- Security monitoring

## Product Description



## Mechanical structure



## Points for Attention

- Do not heat this product with other heat sources;
- Do not scratch the lens to prevent the measurement accuracy decreasing;
- Do not drop, hit or disassemble this product to prevent damage to internal components and loss of accuracy.

## Technical Parameter

<b>Laser wavelength</b>	815nm
<b>Measuring range</b>	0.05~14m@60% Reflectivity
<b>Absolute accuracy</b>	≤3cm
<b>Frame rate</b>	1.8K/3.6K/7.2K
<b>FOV ( receiver )</b>	2°
<b>Size</b>	36mm x 16mm x 19.5mm
<b>Data transmission</b>	UART
<b>Power supply</b>	5V, 0.1A
<b>Power consumption</b>	Average power consumption ≤0.5W
<b>Supported systems</b>	Windows10 / Linux / Android
<b>Operating temperature</b>	-10 ~ 50°C
<b>Safety</b>	Class 1
<b>Weight</b>	9 g

## System structure

