



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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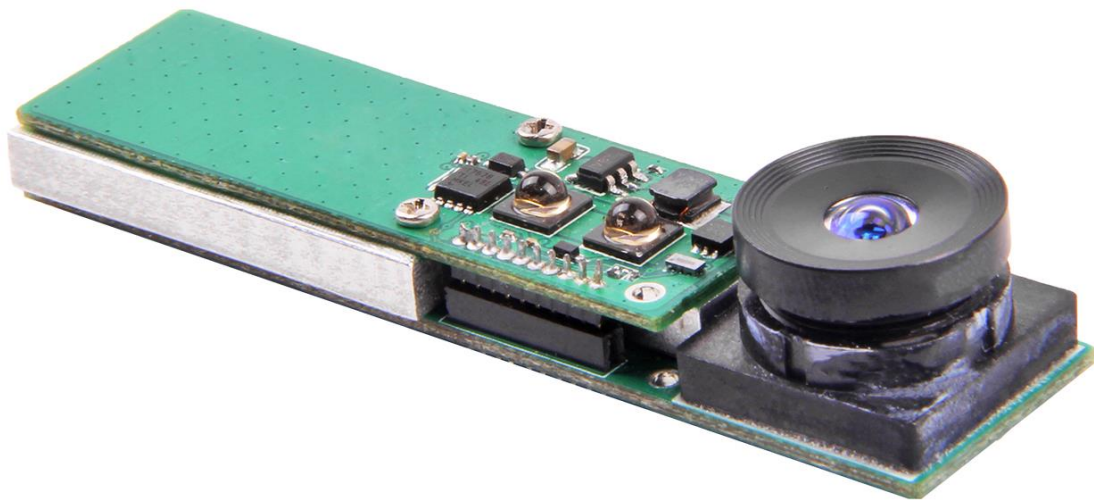
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## DepthEye 3D visual TOF Depth Camera

SKU 102090004

The Depth Eye is the cost-effective TOF base depth camera. It use TI opt8320 sensor and pass all depth data including pointcloud via USB cable.

### Feature:

- Amazing tiny size
- USB 2.0 interface
- Provide Pointcloud and RAW depth data
- FOV (D\*H\*V) : 90 \* 75 \* 59
- 2 850nm band infrared LED
- F/NO. is 1.09
- TI OPT8320 sensor
- Resolution is 80\*60

### Sensor Features :

- Measures Phase with QVGA (80x60) resolution
- 1/6"Optical Format
- Up to 1000fps frame rate
- Global Reset & Shutter
- Programmable Features
  - Frame Size, frame rate
  - Exposure, ROI
- De-aliasing, temp compensation
- IR pass filter (820nm to 865nm)
- 12-bit Phase/Amplitude, 4-bit Ambient
- Parallel Operating Temperature : 0°C to + 70°C

### Caution

- 1) Make sure you have used the correct profile which name is H1ForSeed**
- 2) Please don't change the Integration Duty Cycle (intg\_time) more than 20% .Otherwise, it is possible to destroy the hardware**
- 3) The Heat sink could be hot when this module is working, please be careful to avoid scalding your hands**
- 4) Support win7 64bit and win10 64bit (Non-Support 32. Some win7 computers may have compatibility display problems and can not display point cloud images.**

### Application Scenarios :

- Gesture recognition
- General robot navigation and localization
- Environment scanning and 3D re-modeling
- Service robot or industrial robot working for long hours
- Home service /clean robot navigation and localization
- General simultaneous localization and mapping (SLAM)
- Smart toy's localization and obstacle avoidance

### Technical Details

Dimensions	60mm x 17mm x 12mm
Weight	G.W 20g
Battery	Exclude
Sensor	TI OPT8320



Operating Temperature	0°C to +70°C
Range	0.2~2m
Accuracy	<1.5% of measured distance
FOV (H*V*D)	75.3°x59.7°x90°
Interface	USB 2.0 Micro B
OS	Linux/Android

*Part List*

DepthEye 3D visual TOF Depth Camera	1
Micro USB Cable	1

***Documents***

- SDK link
- Windows Viewer

