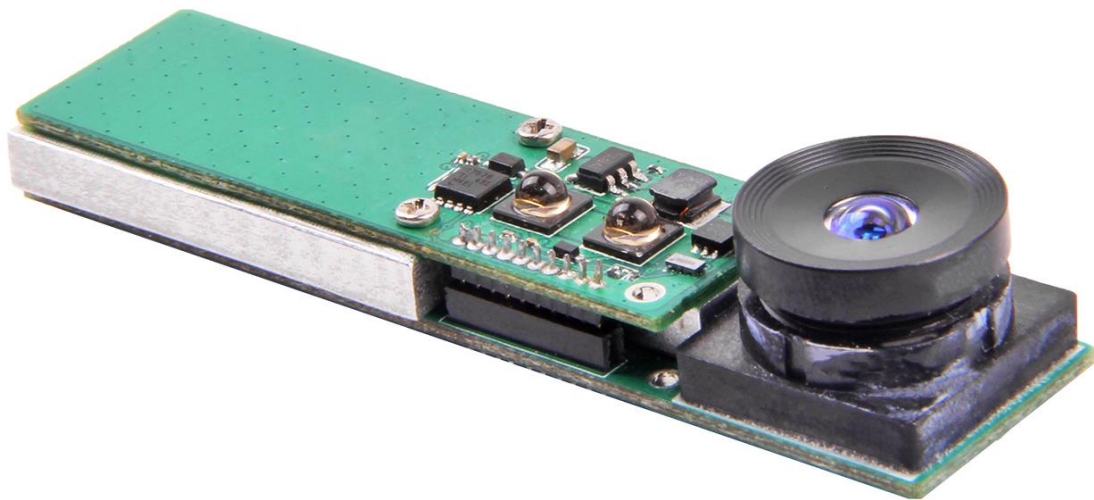




seeed studio



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

