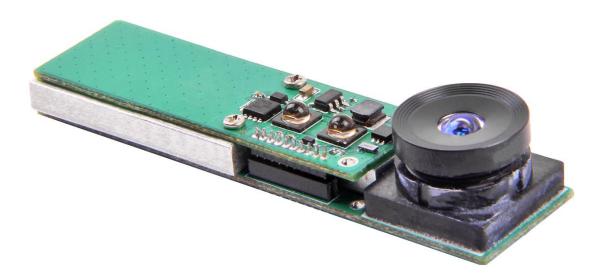
# Seeed



# 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 H1ForSeeed

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 carefull 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

# Dimensions60mm x 17mm x 12mmWeightG.W 20gBatteryExcludeSensorTI OPT8320

### Technical Details

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





https://www.seeedstudio.com/DepthEye-3D-visual-TOF-Depth-Camera-p-3025.html 4-12-18