

RGBD Depth Camera_CS30 Product Manual



Product description

The CS30 is equipped with a 640 * 480 ToF depth module and a 1920 * 1080 color image module. It uses ToF technology to obtain 3D information of objects and space. It has excellent performance such as large FOV, depth and RGB image synchronization. It provides users with convenient and efficient 3D perception.

The product is powered by type C interface and simultaneously outputs depth and color image information, supporting depth and color image mapping.

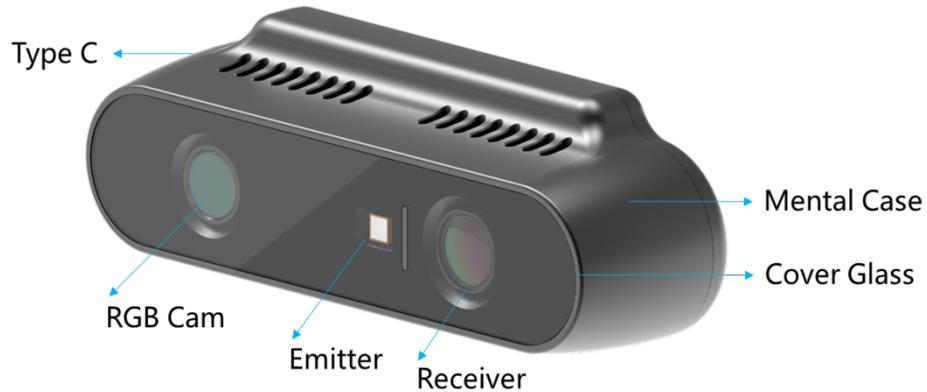
Features

- High precision
- Typical measurement range: 0.1-5m@90% reflectance
- High dynamic measurement range
- Supports depth, color image synchronization
- Adjustable range and frame rate

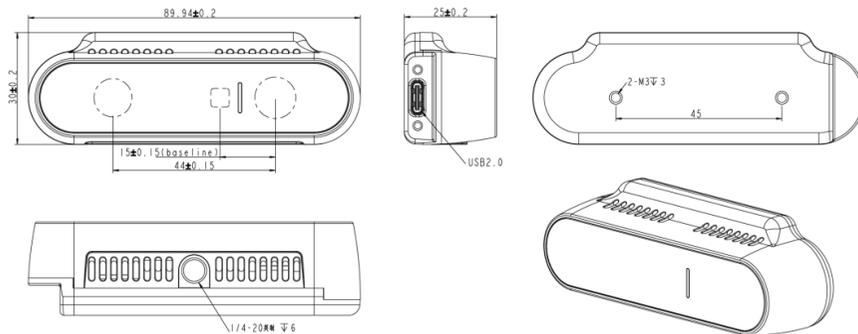
Applications

- Robotic obstacle avoidance
- Industrial Vision
- Volume measurement
- Liveness detection
- Somatosensory interaction
- 3D modeling
- Security monitor

Product Description



Mechanical structure



Points for Attention

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

Technical Parameter

Depth Image	Resolution	640*480/320*240
	FOV	H100°xV75°
Color image	Resolution	1920*1080/640*480
	FOV	H97°xV59.5°
RGBD fusion	Resolution	1920 x 1080
	FOV	H91.5°xV59°
Basic parameters	working distance	0.1-5m, indoor
	VCSEL wavelength	940nm
	Absolute accuracy	0.1~0.5m: ±2.5cm
		0.5~5m: ±1% @ 90% reflectivity
	Size	90mm x 25mm x 25mm
	Data transmission	USB 2.0 协议 , Type C Interface
	Power supply	5V, average 0.6A
	Power consumption	average 3W
	Supported systems	Win 10, Ubuntu, ROS
	Operating temperature	-10 ~ 50C°
Safety	Class1	

System structure

