

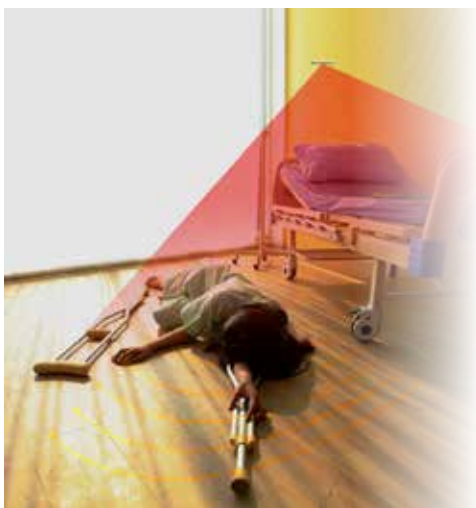


DepthMaster Series (oToCAM500/oToCAM501) Industrial Grade Depth Camera

Product Advantages

Outdoor performance	Indoor performance			
	1m	4m	7m	
RGB scene				
oToCAM500/oToCAM501 940nm laser x4				
Stereo camera 850nm laser x1				
LiDAR camera 850nm laser x1				

Performance of smart healthcare image recognition



Two advantages of TOF 3D depth camera module used in smart healthcare

- Non-RGB image protects patient's privacy
- AI image recognition identifies patient's pose



The patient is in bed



The patient falls off the bed



The patient leaves the bed

Product Hardware Spec.



Product Specification	oToCAM500-E62MIPI	oToCAM500-E62M	oToCAM500-E62GigE	oToCAM501-A90MIPI	oToCAM501-A90M	oToCAM501-A90GigE
Sensor	Sony DepthSense® IMX570					
Sensor Edge Processor	Sony CXD5639GF					
Resolution	640 x 480 (0.3Mp)					
View Angle	62 ° (H) x 47 ° (V)			90 °(H) x 66.7 ° (V)		
Illumination	4 x VCSELs @ 940nm					
Compliance	Eye Safety Class 1					
Use Environment	Indoor/ Outdoor					
Output Data	3D Point Cloud, IR Frame, Depth Frame					
Operating Temperature	-10°C ~ +50°C					
Interface	MIPI	LVDS (GMSL2)	Ethernet (PoE*)	MIPI	LVDS (GMSL2)	Ethernet (PoE*)
IP Rating	No	IP67	IP67	No	IP67	IP67
Dimension	55 x 52 x 24.2mm	57 x 54 x 38.1mm	57 x 54 x 54.6mm	62 x 54 x 24mm	62 x 54 x 40mm	62 x 54 x 55mm

Near mode

Frame Rate	30 fps
Operating Distance	0.3m ~ 1.25m
Accuracy	< ± 10mm
Precision	< 2 mm

Far mode

Frame Rate	15 fps
Operating Distance	0.3m ~ 7.2m
Accuracy	< 10 mm ± 0.5% of depth
Precision	< 15 mm

- The dimensions exclude protruding connectors.

* via M12 connector

Application

- Smart healthcare
- AMR
- LMR(Last-mile robots)
- Autonomous forklift
- Smart logistics
- Factory automation





DepthMaster Series (oToCAM500/oToCAM501) adopts latest Sony 3D sensing technology-DepthSense[®], which can directly produce 3D point cloud data, IR frame and depth frame, providing rapid and reliable depth information in complex scenes. In addition, the oToCAM500/oToCAM501 is equipped with 4 x 940nm VCSELs and high-resolution (640x480) depth sensor, the detection distance can be from 0.3 to 7.2 meters with millimeter level precision performance. With all technological advantages, the product can have stable performance whether used outdoors or indoors, being applicable to use in smart healthcare and AMR.

oToCAM500-E62GigE/oToCAM501-A90GigE has IP67 waterproof and dustproof rating and supports Power over Ethernet (POE), making it a good value choice in many application fields.

Product Features

- Powered by Sony 3D sensing technology - DepthSense[®] sensor
- Produce 3D point cloud data, Depth Frame and IR frame directly
- High-resolution (640x480) 3D image for wide range(0.3 ~ 7.2m)
- Depth Accuracy < 0.5% of depth, mm level precision
- Equipped with 4 x 940nm VCSELs for both indoor and outdoor scenarios
- IP67 waterproof and dustproof rating
- Support Power over Ethernet
- Support MIPI, LVDS, Ethernet interface for different AIOT applications

driving life easier and safer



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