oToBrite

Stereo Camera

oToCAM521 Series (IMX900)

Overview

The oToCAM521 Series is a stereo camera for the application of robot system. It uses high sensitive CMOS sensor to perform good image quality for the detection purpose of the system product.

Specifications

- General Specifications

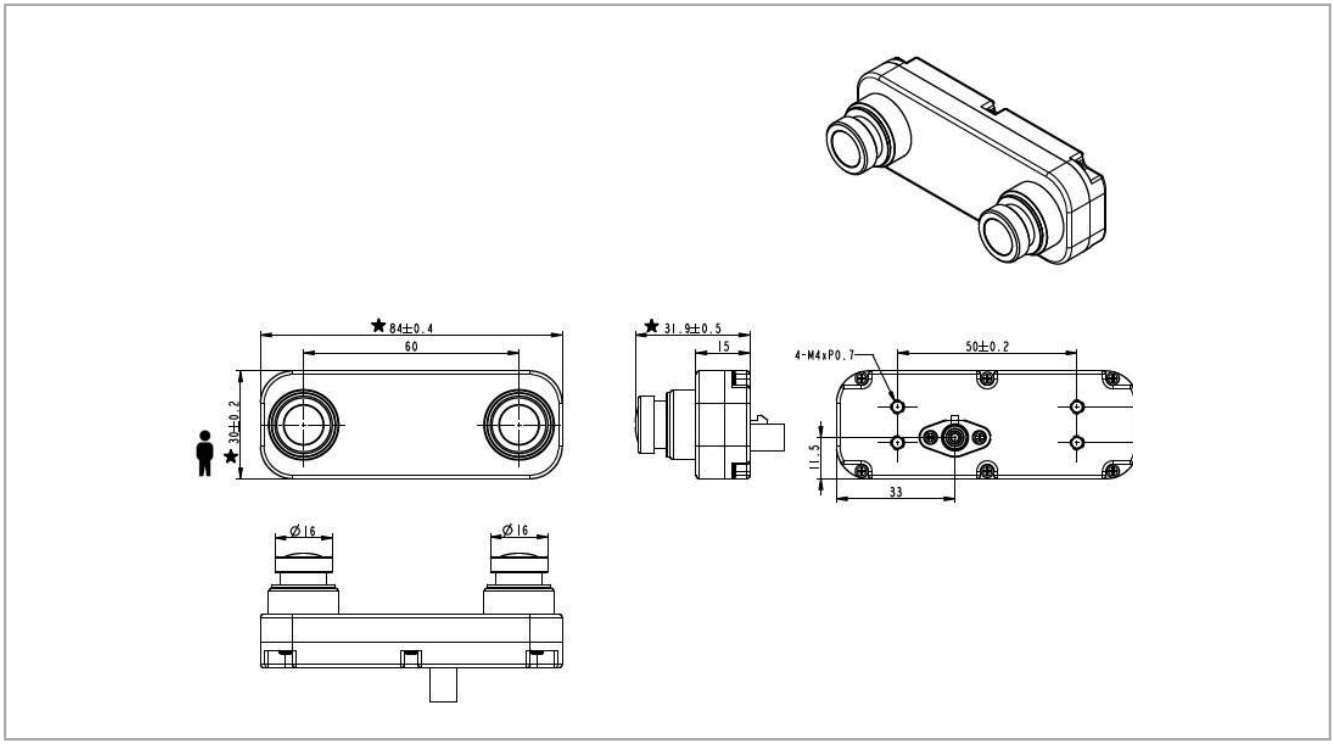
Item	Specifications
Optical Format	1/3.1
Pixel Size	2.25 μm×2.25 μm
ISP Chip	IND88002
Camera Number of Pixels	3.2MP (2064(H)*1552(V))
Ideal Depth Range – Near (m)	0.15 m
Ideal Depth Range – Far (m)	6 m
Z - Accuracy	0.85% @ 2m ; 2.56% @ 6m
View Angle(H)/(V)	80° /59.9°
Lens F No.	1.8
Base Line (mm)	60
S/N (Max)	39.76 dB
Frame Rate	30 fps(default setting)
Serializer	MAX9295A
IMU	ASM330LHH, automotive-grade 6 axis IMU
Output Formats	YUV422
System Requirements	NVIDIA Jetson AGX Orin/ NVIDIA Jetson Orin NX
Interface	GMSL2 with POC
Connector	Fakra Z type
Power Source (POC)/Typical	9V~17V
Operating Temperature	-20°C ~ + 65°C
Storage Temperature Range	-40°C ~ + 85°C
Waterproof	IP69K
Dimension	84mm(L)*30mm (H)*31.9mm(H)
Weight	TBD

• Product Specifications (by models)

Item	oToCAM521-H80M	oToCAM521G-H80M
Image Sensor	IMX900 AQR	IMX900 AMR
Image Type	Color	Monochrome
Dynamic Range	63.8dB	120dB
Output Resolution	2048*1536	1024*768

Outline Drawing

• oToCAM521 Mechanical Dimensions



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