oToBrite

Robotics Camera

oToCAM278 Series (IMX900)

Overview

The oToCAM278 Series is a global shutter camera designed for robotic applications. Featuring the highly sensitive Sony IMX900 CMOS sensor, it delivers high-quality images for reliable object detection and visual perception in robotic systems.

oToCAM278-H80M

oToCAM278G-H80M

oToCAM278ISP-H80M

oToCAM278GISP-H80M

Specifications

• General Specifications

Item	Specifications
Optical format	1/3.1
Pixel size	2.25 μm × 2.25 μm
Camera number of pixels	3.2MP (2064(H)*1552(V))
S/N ratio (Max)	39.76 dB
Frame rate	30 fps(default setting)
Serializer	MAX9295A
Interface	GMSL2 with POC
Connector	Fakra Z type
Power source (POC)/Typical	9V~17V
Storage temperature Range	-40℃ ~ +85℃
Waterproof	IP69K

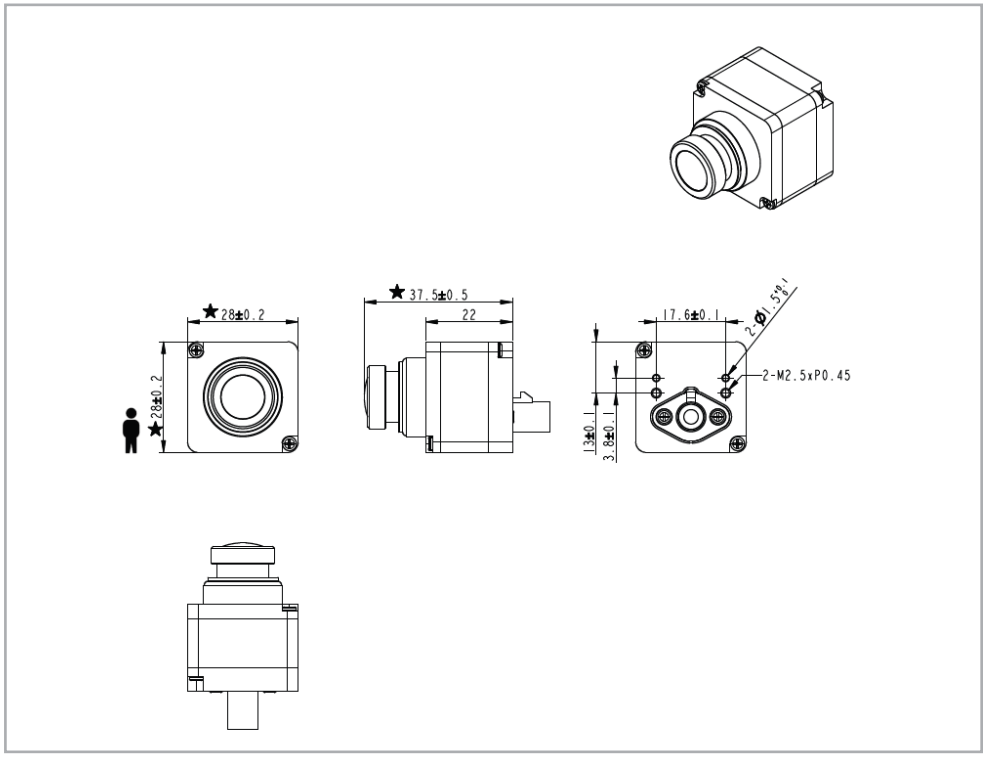
• Product Specifications (by models)

Item	oToCAM278-H80M	oToCAM278G-H80M
Image Sensor	IMX900 AQR	IMX900 AMR
Image Type	Color	Monochrome
ISP Chip	N/A	N/A
View Angle(H)/(V)	80˚ / 59.9˚	80˚ / 59.9˚
Lens F No.	1.8	1.8
Dynamic Range	63.8dB	63.8dB
Output Resolution	2048*1536	2048*1536
Output Formats	RAW12	RAW12
Operating Current	MAX:95mA@12V TYP:53mA@12V	MAX:95mA@12V TYP:53mA@12V
Operating Temperature	-20°C ~ + 65°C	-20°C ~ + 65°C
Dimensions	28 mm(L)*28 mm (W)*37.5 mm(H)	28 mm(L)*28 mm (W)*37.5 mm(H)
Weight	46.9g	46.9g

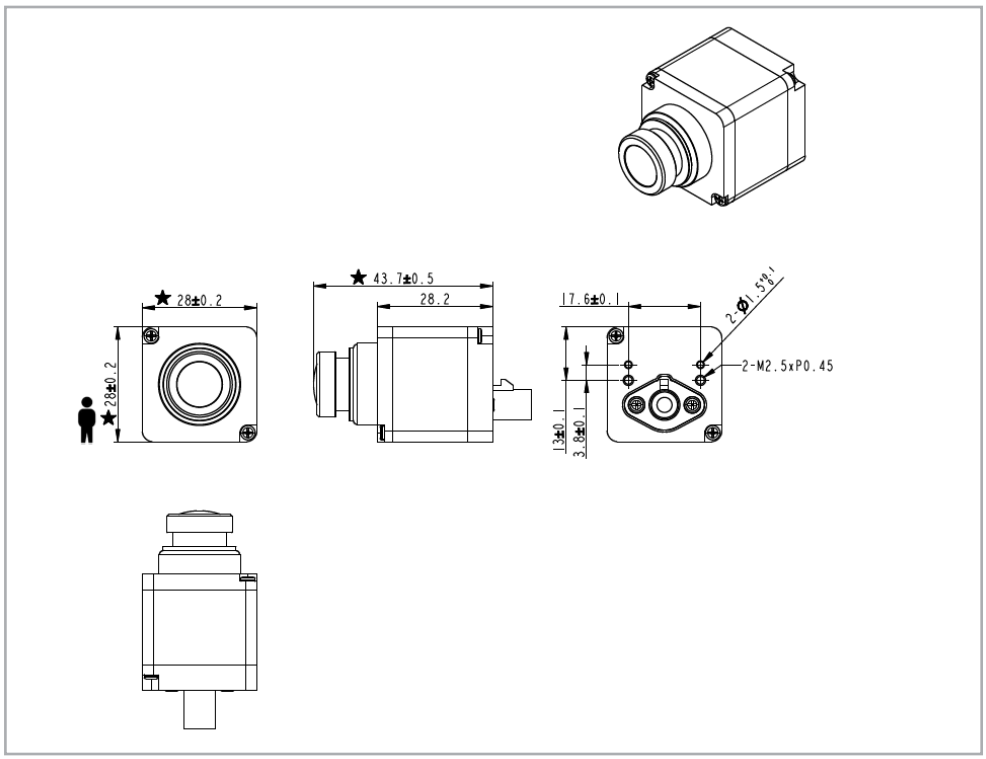
Item	oToCAM278ISP-H80M	oToCAM278GISP-H80M
Image Sensor	IMX900 AQR	IMX900 AMR
Image Type	Color	Monochrome
ISP Chip	IND88002	IND88002
View Angle(H)/(V)	80˚ / 59.9˚	80˚ / 59.9˚
Lens F No.	1.8	1.8
Dynamic Range	63.8dB	Normal Mode:63.8dB Quad HDR:120dB
Output Resolution	2048*1536	Normal:2048*1536 Quad HDR:1024*768
Output Formats	YUV422	YUV422
Operating Current	MAX:312mA@12V TYP:187mA@12V	MAX:312mA@12V TYP:187mA@12V
Operating Temperature	-20°C ~ + 55°C	-20°C ~ + 55°C
Dimensions	28 mm(L)*28 mm (W)*43.7 mm(H)	28 mm(L)*28 mm (W)*43.7 mm(H)
Weight	48.5g	48.5g

Outline Drawing

- oToCAM278-H80M / oToCAM278G-H80M Mechanical Dimensions



- oToCAM278ISP-H80M / oToCAM278GISP-H80M Mechanical Dimensions



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