

oToBrite



Automotive Camera



oToCAM264ISP-M Series (IMX390)

Overview

The oToCAM264ISP-H61M/ oToCAM264ISP-N73M/ oToCAM264ISP-C120M/ oToCAM264ISP-N186M, offers reliable automotive-grade cameras designed for autonomous driving applications. These cameras use high-sensitivity CMOS sensors to provide solid image quality, effectively meeting the visual detection needs of system products.



oToCAM264ISP-H61M



oToCAM264ISP-N73M



oToCAM264ISP-C120M



oToCAM264ISP-N186M

Specifications

• General Specifications

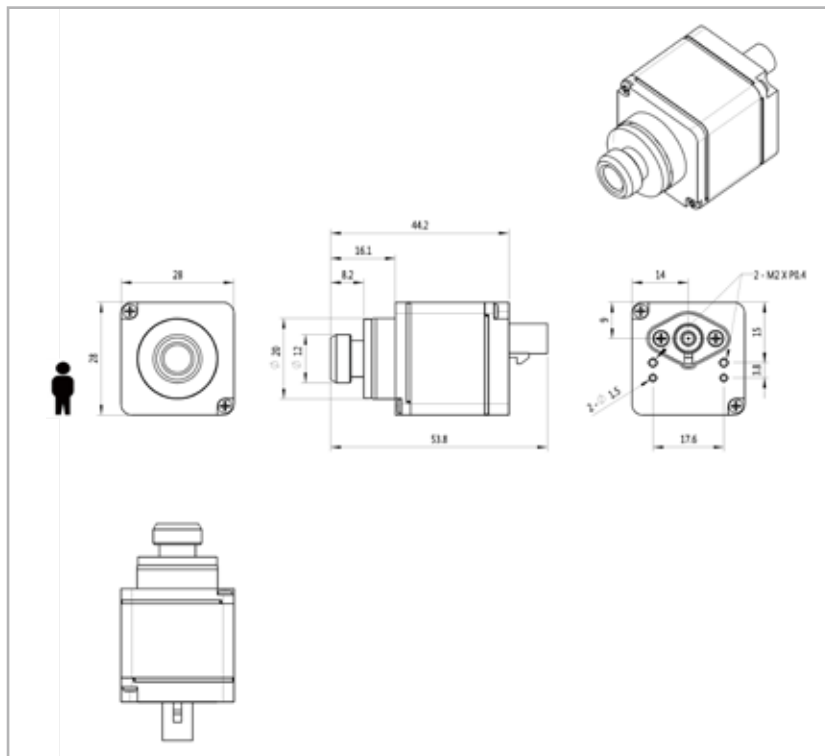
Item	Specifications
Image sensor	CMOS (Sony IMX390)
HDR	Supported
LFM	Supported
Optical format	1/2.7"
Pixel size	3.0 μ m (H) \times 3.0 μ m (V)
ISP	Yes
ISP chip	GW5200
Camera output pixel number	2M (1920 (H) \times 1080 (V))
Color filter array	RGGB
Output interface	GMSL2 with POC
Output formats	MIPI 4lane YUV422 8bits UYVY
S/N ratio	48.5 dB
Power source (POC)/ Typical	DC 9~12V/ 9V
Startup time of power in	Within 2000ms (SerDes & ISP initialization)
Frame rate	30 fps (By setting)
Serializer	MAX9295a
Camera current consumption	\leq 165mA @12V/ 25 $^{\circ}$ C
Operating temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C
Storage temperature	-40 $^{\circ}$ C ~ +95 $^{\circ}$ C
Dust/ Waterproof	IP67/ IP69K

• Product Specifications (by models)

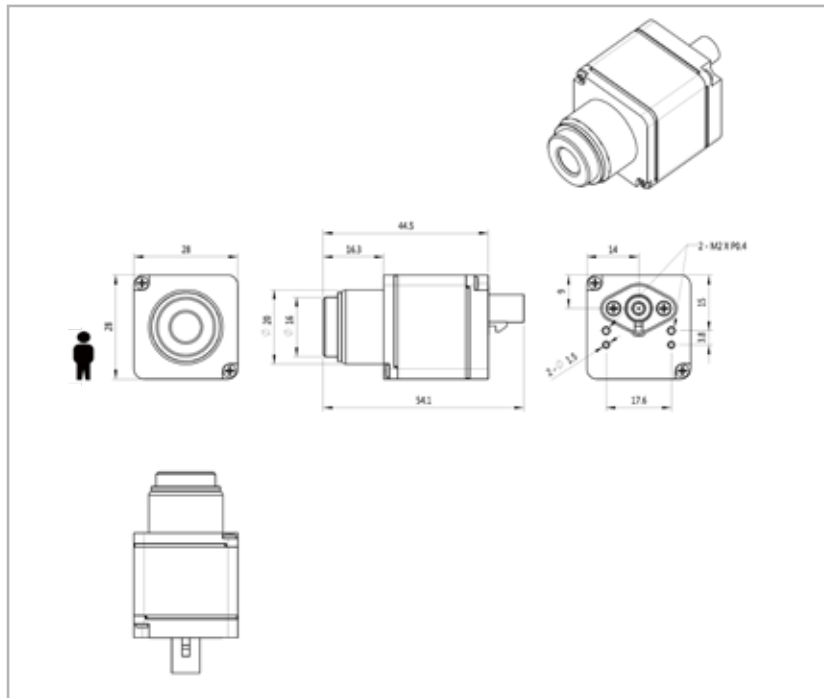
Item	oToCAM264ISP-H61M	oToCAM264ISP-N73M	oToCAM264ISP-C120M	oToCAM264ISP-N186M
View angle(H)	63.9°	73°	120.6°	186°
Lens F No.	F1.6	F2.8	F1.4	F2.4
IR cut edge	650nm	650nm	650nm	650nm
DOF/ Object distance	3.0M~inf.@Inf.	1.3M~inf.@inf.	1.0M~inf.@Inf.	0.2M~inf.@50cm
Resolution	TV line Center \geq 600, Corner \geq 500	TBD	TV line Center \geq 600, Corner \geq 500	TV line Center \geq 600, Corner \geq 500
Connector	Amphenol SMB1251Y3-002-TT5GP-50	Amphenol SMB1251Y3-002-TT5GP-50	Amphenol SMB1251Y3-002-TT5GP-50	Amphenol SMB1251Y3-002-TT5GP-50
Dimensions	28*28*44.2 mm (exclude Fakra connector)	28*28*44.5 mm (exclude Fakra connector)	28*28*45.2 mm (exclude Fakra connector)	28*28*50.2 mm (exclude Fakra connector)
Weight	38g	48g	50g	50g

Outline Drawing

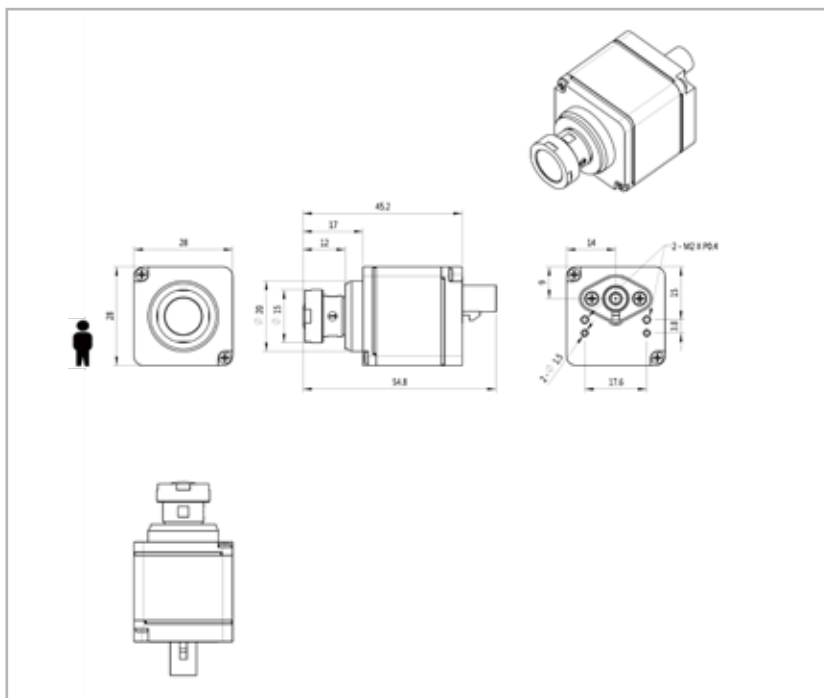
• oToCAM264ISP-H61M Mechanical Dimensions



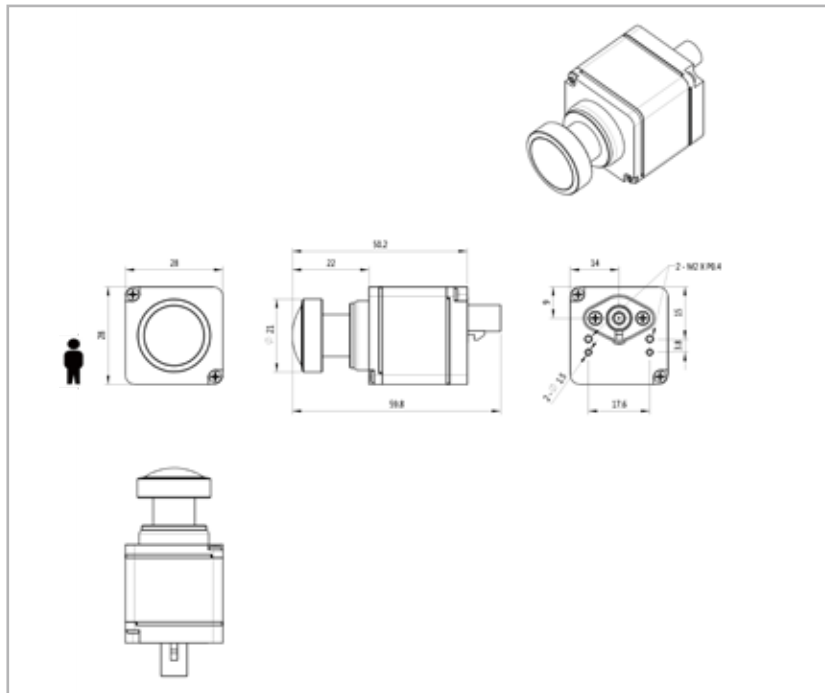
- oToCAM264ISP-N73M Mechanical Dimensions



- oToCAM264ISP-C120M Mechanical Dimensions



- oToCAM264ISP-N186M Mechanical Dimensions



driving easier and safer



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