

EV2M-GOM1-MUCA

MIPI CSI-2 2MP Fixed Focus Camera Module

HIGHLIGHT FEATURES

- MIPI CSI-2 Interface, 2MP @30fps (Max. Resolution)
- Support Fisheye Dewarping, ISP Inside
- Lens FOV (D) : 230°
- Platform Support : NVIDIA Jetson Orin, Intel
- Complies with CE / FCC Class A

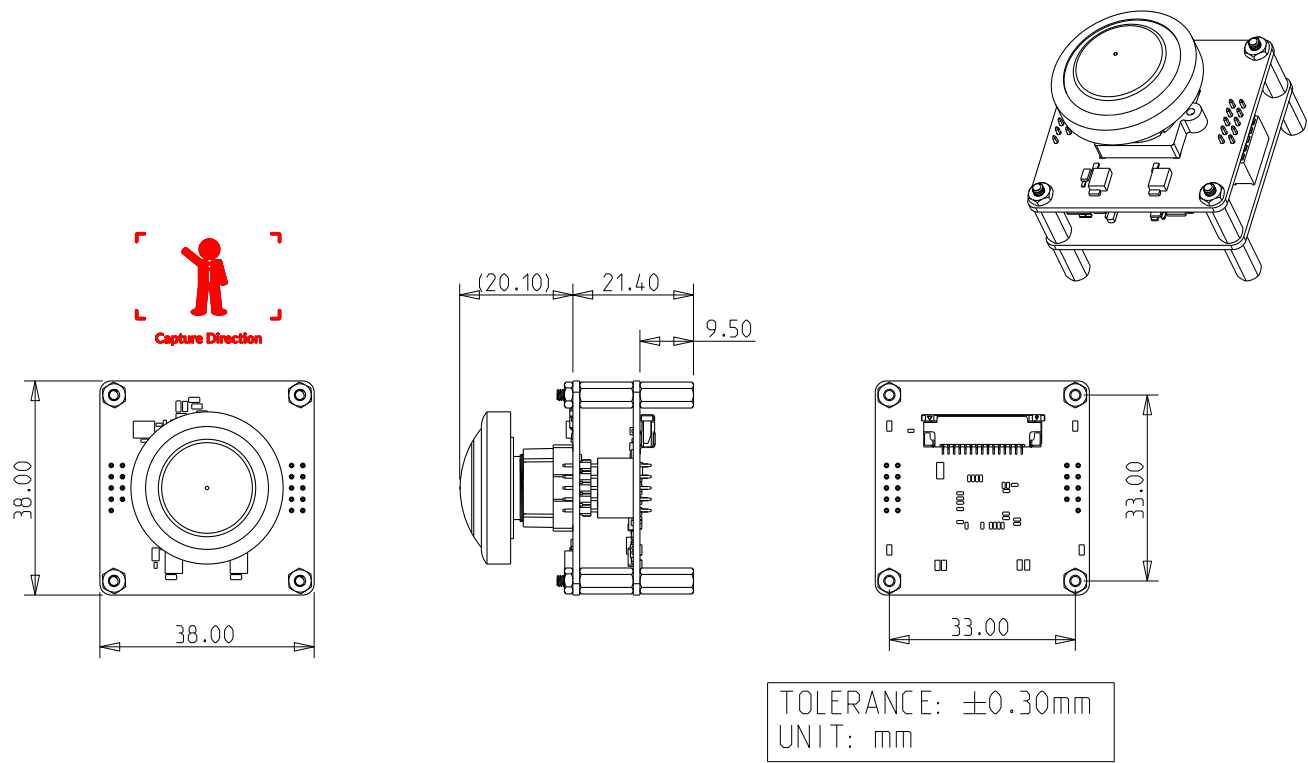
SPECIFICATIONS

Model Name	EV2M-GOM1-MUCA
Module Type	MIPI CSI-2 2MP Fixed Focus Camera Module
Resolution (Max.)	2MP
Frame Rate (Max. Resolution)	30fps
Output I/F	MIPI CSI-2
Sensor	onsemi AR0330
Shutter	Rolling
Video Format	YUV422
Power Consumption	Approximate 1.6W (YUV422 @Max. Resolution)
Operating Temperature	-30°C ~ 70°C
Sensor Size	1/3"
Pixel Size	2.2μm
Chroma Type	Color
Lens Type	Fixed Focus (M12)
Dimension (W x L x H/mm)	38 x 38 x 45 46 x 46 x 45 (Open Front Housing)
Lens FOV (D)	230°
Platform Support	NVIDIA Jetson Orin, Intel
Housing	Board Level, Open Front Housing
Features	Fisheye Dewarping
Warranty	3 Years
Note	For detailed resolution and frame rate combined application, please refer to product datasheet. For more platform support, please contact our local sales.

ORDER INFO.

P/N	Description
EV2M-GOM1-MUCA-C1	MIPI CSI-2 2MP Fixed Focus Camera Module (MIPI CSI-2 FFC & FPC cable included)
EV2M-GOM1-RSCO-21	MIPI CSI-2 2MP Fixed Focus Camera Module, Open Front Housing (MIPI CSI-2 FFC & FPC cable included)
7W7000000020	MIPI CSI-2 FFC cable,15cm,15pins pitch 1mm
7W7000000030	MIPI CSI-2 FPC cable,15cm,15pins pitch 1mm to 22pins 0.5mm

MECHANICAL DRAWING



RESOLUTION MATRIX

Resolution	YUV422	MJPEG
1920 x 1080	30fps	N/A

CONNECTOR PIN ASSIGNMENT

Pin #	Pin Name	Description
1	GND	Ground
2	CAM_D0_N	CSI Data 0
3	CAM_D0_P	CSI Data 0
4	GND	Ground
5	CAM_D1_N	CSI Data 1
6	CAM_D1_P	CSI Data 1
7	GND	Ground
8	CAM_CK_N	CSI Clock
9	CAM_CK_P	CSI Clock
10	GND	Ground
11	CAM_PWDN	Camera Power-down
12	CAM_MCLK	Camera Master Clock
13	CAM_SCL	I2C Clock (3.3V)
14	CAM_SDA	I2C Data (3.3V)
15	CAM_3V3	+3.3V



PLATFORM SUPPORT

Platform	Processor
NVIDIA Jetson	Jetson AGX Orin Jetson Orin NX Jetson Orin Nano
Intel	Alder Lake 12 th Raptor Lake 13 th Core™ Ultra processor

For more information please contact our local sales.

LENS SPEC.

Items	Specification
F No.	2.1
Focal Length	1.1mm
Lens Structure	4G2P
Mount	M12 x P0.5 (S-Mount)

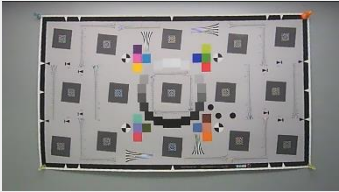
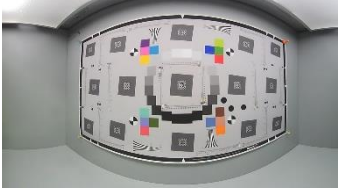
CABLE APPEARANCE (7W7000000020)



CABLE APPEARANCE (7W7000000030)



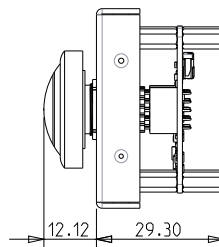
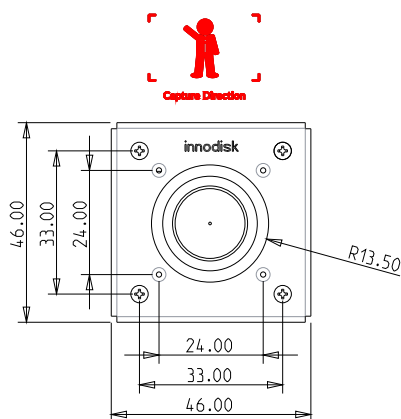
DEWARPING MODE

Mode	Image Acquisition
Fisheye Mode	
HFOV 90° Mode	
HFOV 180° Mode	

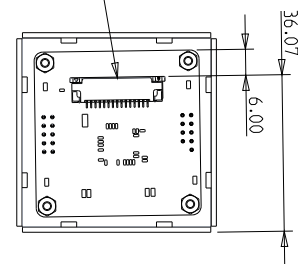
PRODUCT APPEARANCE (OPEN FRONT HOUSING)



MECHANICAL DRAWING (OPEN FRONT HOUSING)



ZIP FPC/FCC CONN.
15Pin Pitch:1.0



TOLERANCE: $\pm 0.30\text{mm}$
UNIT: mm

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