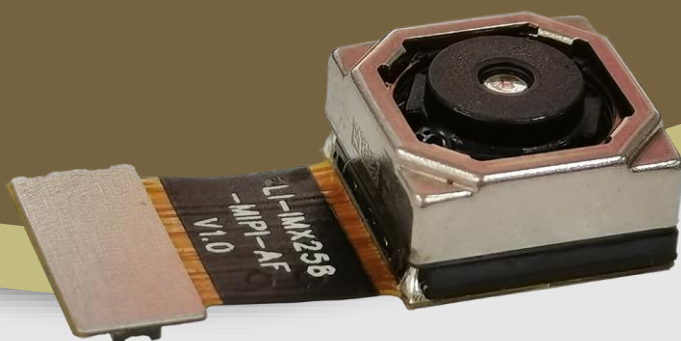




LI-IMX258-MIPI-AF



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INTRODUCTION

The LI-IMX258-MIPI-AF is equipped with Sony diagonal 5.867 mm (Type 1/3.06) 13 MP CMOS color sensor IMX258 which achieves high speed image capturing, high sensitivity, low noise and low power consumption. This camera outputs 10-bit RAW data.

SPECIFICATIONS

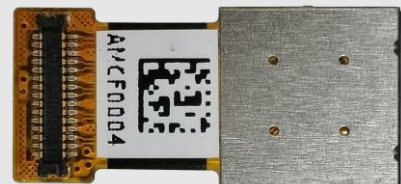
Sensor	Sony 13MP CMOS Digital Image Sensor IMX258
Optical Format	1/3.06"
Resolution	4208 (H) x 3120 (V) (active pixels)
Pixel Size	1.12 x 1.12 μm
Output Format	10-bit RAW data
Color / Mono	Color sensor
Frame Rate	30 fps @ full resolution (Normal / HDR) 30 fps @ 4K2K (Normal / HDR) 60 fps @ 1080p (Normal)
HDR (High Dynamic Range)	Supported
Sensor Slave Address	W / R: 0x34 / 0x35, SLASEL = L
Interface	4-lane MIPI CSI-2
Connector	OK-14GM030-04
Power Consumption	< 850 mW
Operating Temp	-20°C ~ +60°C
Storage Temp	-20°C ~ +60°C
Weight	~ 0.8 g
Part#	LI-IMX258-MIPI-AF

APPLICATIONS

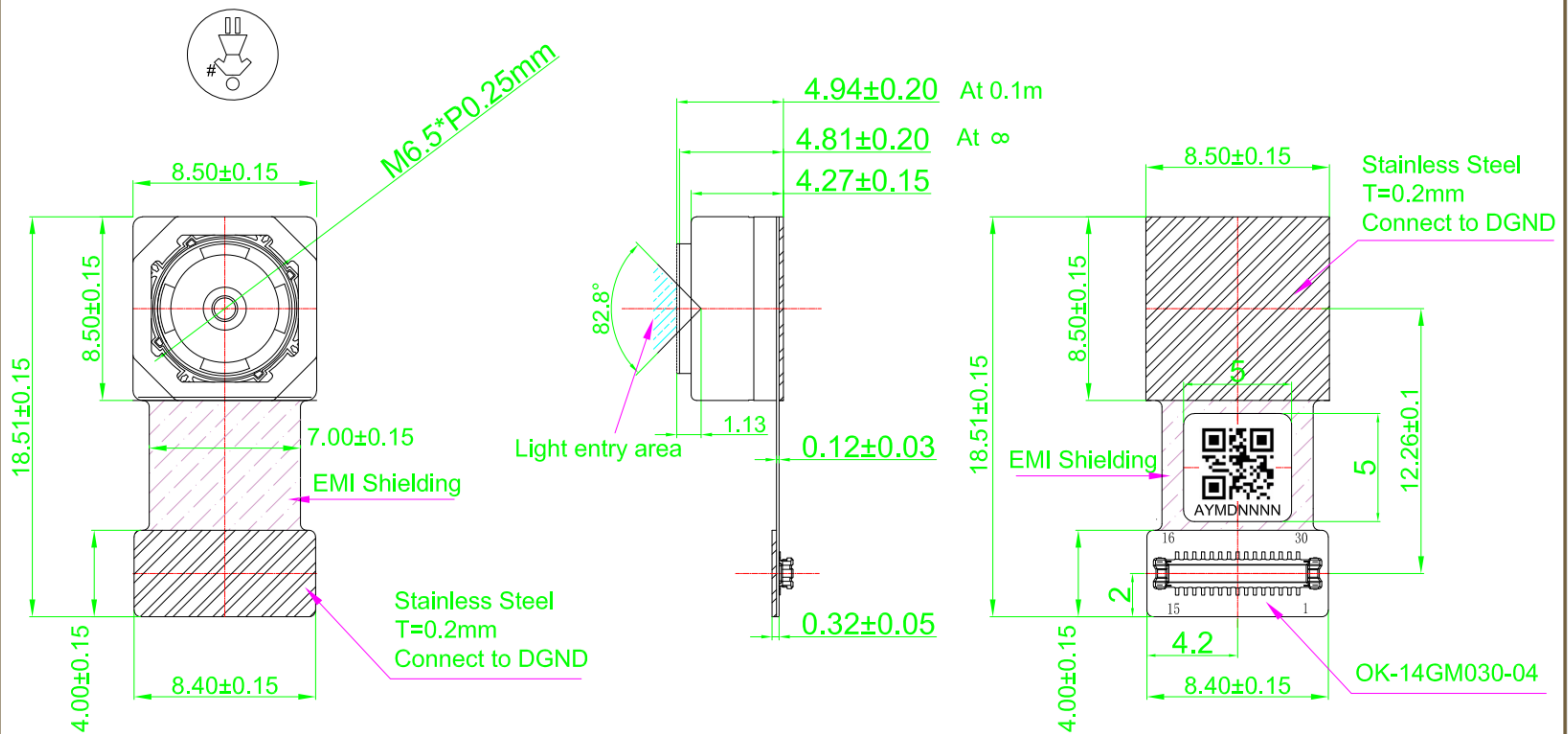
- Digital Still Cameras
- PC Cameras
- IoT
- Robots

LENS SPECIFICATIONS

Focusing Range	10 cm ~ Infinity
Focal Length	3.46 mm
Aperture, F/#	2.2 $\pm$ 5%
FOV (Field of View)	79.8° diagonal
Fixed / Auto Focus	Auto
TV Distortion	< -1.5%



DIMENSIONS



NOTE:

- Basic tolerance: ± 0.1 mm
- Labels having "*" are emphasis dimensions

Unit: mm

PIN ASSIGNMENT

NO.	Pin	I/O	A/D	Description	Remarks
1	DGND	GND	D	Digital GND	
2	AF_GND	GND		VCM GND	
3	SDA	I/O	D	Serial data I/O	I ² C pin
4	AF_VDD_2.8V	Power		VCM power supply (2.8V)	
5	DOVDD_1.8V	Power	D	I/O voltage (1.8V)	
6	SCL	Input	D	Serial clock input	I ² C pin
7	AGND	GND	A	Analog GND	
8	NC				
9	AVDD_2.8V	Power	A	Analog power supply 2.8V	
10	DVDD_1.2V	Power	D	Digital power supply 1.2V	
11	VSYNC	I/O	D	Digital I/O	
12	RST	I	D	Digital input	Chip clear
13	DGND	GND	D	Digital GND	
14	MCLK	I	D	Digital input	Clock input
15	DGND	GND	D	Digital GND	
16	DATA0_P	O	D	CSI-2 output	MIPI output
17	DATA0_N	O	D	CSI-2 output	MIPI output
18	DGND	GND	D	Digital GND	
19	DATA3_P	O	D	CSI-2 output	MIPI output
20	DATA3_N	O	D	CSI-2 output	MIPI output
21	DGND	GND	D	Digital GND	
22	CLK_P	O	D	CSI-2 clock output	MIPI output
23	CLK_N	O	D	CSI-2 clock output	MIPI output
24	DGND	GND	D	Digital GND	
25	DATA1_P	O	D	CSI-2 output	MIPI output
26	DATA1_N	O	D	CSI-2 output	MIPI output
27	DGND	GND	D	Digital GND	
28	DATA2_P	O	D	CSI-2 output	MIPI output
29	DATA2_N	O	D	CSI-2 output	MIPI output
30	DGND	GND	D	Digital GND	

● REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	08 May 2023

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