



LEOPARD
IMAGING

LI-IMX415-GMSL2-140H



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INTRODUCTION

The LI-IMX415-GMSL2-140H is equipped with Sony 8.4 MP STARVIS back-illuminated CMOS sensor IMX415 which features high sensitivity, low dark current and no smear. Its serializer is Maxim GMSL2 serializer MAX9295A/B. This camera outputs RAW image data.

SPECIFICATIONS

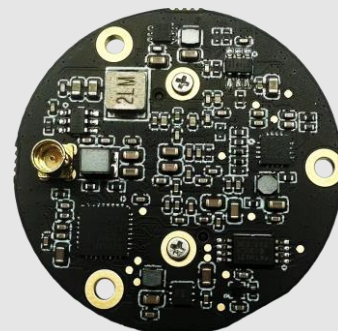
Sensor	Sony 1/2.8" 8.4MP STARVIS back-illuminated CMOS sensor IMX415
Optical Format	1/2.8"
Resolution	3864 (H) x 2176 (V) (active pixels)
Pixel Size	1.45 x 1.45 μm
Output Format	12-bit / 10-bit RAW
Color / Mono	Color sensor
Maximum Frame Rate	12 bit: 60 fps @ all-pixel scan mode 10 bit: 90 fps @ all-pixel scan mode
HDR (High Dynamic Range)	Supported
Serializer	Maxim MAX9295A/B
Power Supply Range	12 ~ 18 VDC
Connector	MMCX
Power Consumption	109 mA @ 12 VDC (3864 x 2192 @ 18 fps)
Operating Temp	-35°C ~ +80°C
Storage Temp	-35°C ~ +80°C
Weight	~ 25 g
Part#	LI-IMX415-GMSL2-140H

APPLICATIONS

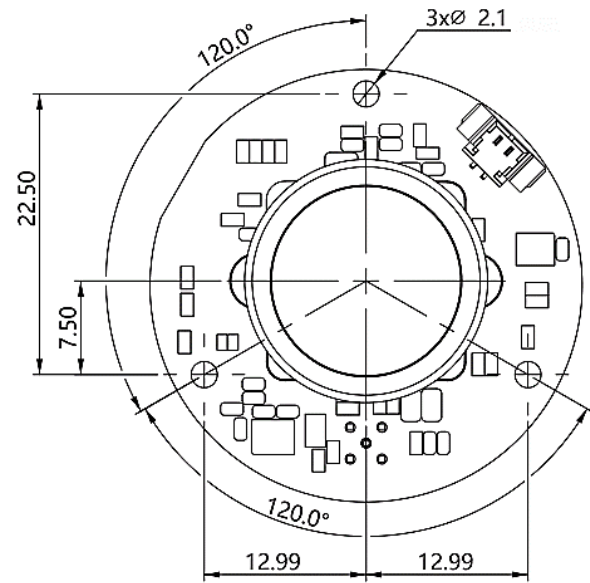
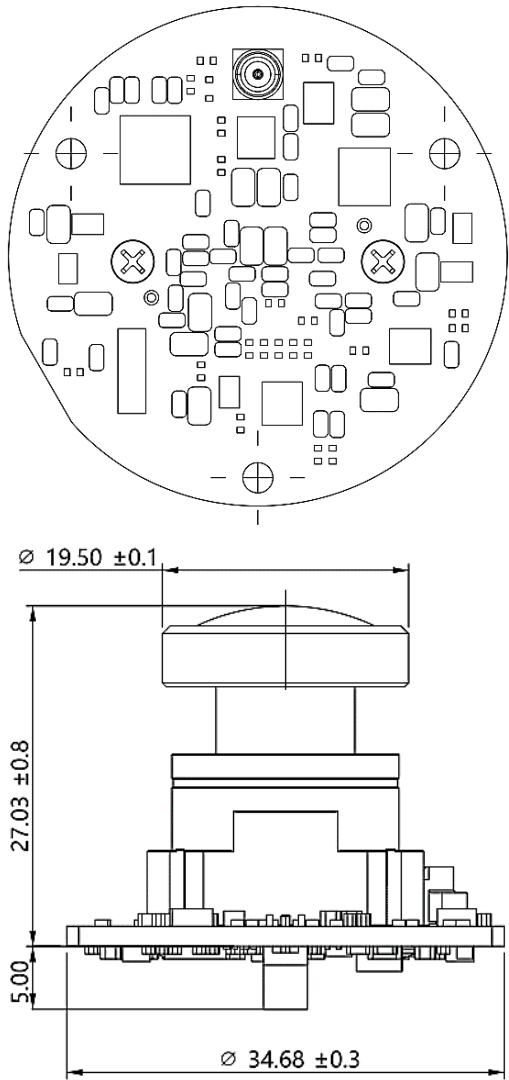
- ◆ Surveillance Camera
- ◆ FA Camera
- ◆ Industrial Camera

LENS SPECIFICATIONS

Effective Focal Length	2.3 mm
Aperture, F/#	2.3
Field of View (FOV)	142.2° horizontal 76.6° vertical 169° diagonal
Optical Distortion	< -9.0%
Relative Illumination	> 40%
IR Cut Filter	650 nm IR cut filter
Lens Mount	Active Alignment (AA)



DIMENSIONS

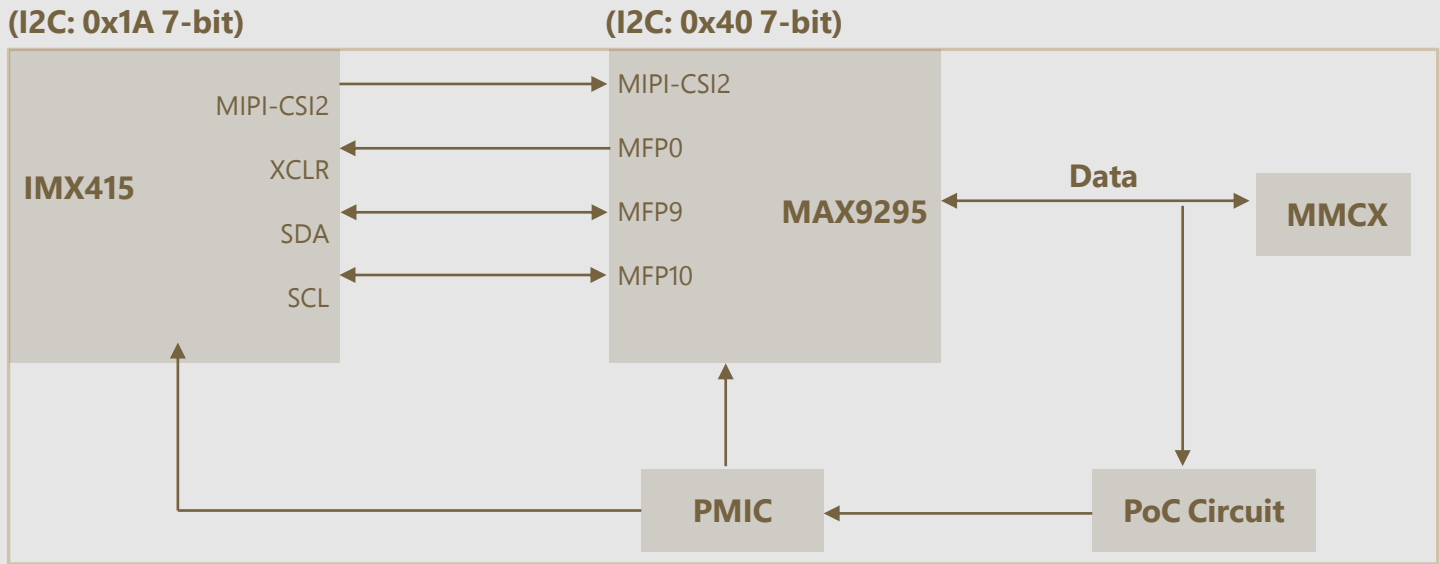


TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
$0.5 < X \leq 3$	± 0.1	$0.5 < X \leq 3$	± 0.2	$X \leq 10$	$\pm 1^\circ$
$3 < X \leq 6$	± 0.1	$3 < X \leq 6$	± 0.5	$10 < X \leq 50$	$\pm 30'$
$6 < X \leq 30$	± 0.2	$6 < X \leq 30$	± 1	$50 < X \leq 120$	$\pm 20'$
$30 < X \leq 120$	± 0.3	$X > 30$	± 2	$120 < X \leq 400$	$\pm 10'$
$120 < X \leq 400$	± 0.5			$X > 400$	$\pm 5'$
$400 < X \leq 1000$	± 0.8				
$X > 1000$	± 1.2				

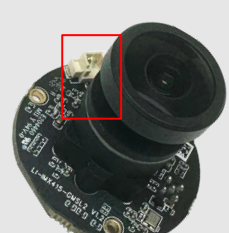
NOTE:

- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for the unmarked – refer to the Tolerance table.
- Unit: mm

SYSTEM BLOCK DIAGRAM



PROGRAMMABLE 5V OUTPUT HEADER DETAILS

Parameter	Description	Diagram
Number of Contacts	2	
Part Number	0533980271	

PINOUT DETAILS

Pin No.	Signal Name	Pin Type	Description
1	5V0	OUTPUT	5V0 Power supply (Default Off . Power on by pulling up MFP6)
2	GND	GND	GND

- REVISION HISTORY

Revision	Description	Release Date
1.0	First Release	1 Mar 2024

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