



LEOPARD
IMAGING

LI-USB30-IMX258-YUV-AF-079D



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INTRODUCTION

The LI-USB30-IMX258-YUV-AF-079D is a Full HD color USB 3.0 type-c camera. It is equipped with SONY 13MP CMOS digital image color sensor IMX258, ISP and USB30 controller. This camera has a dedicated Inbuilt high-performance Image Signal Processor (ISP) chip tuned to bring out the best-in-class image quality and color reproduction, making it adaptable to different lighting conditions. This camera also features high resolution and Phase Detection Auto-Focus (PDAF).

SPECIFICATIONS

Frame Rate	30fps @ 640x360 ; 30fps @ 640x480; 30fps @ 1280x720 ; 30fps @ 1920x1080; 30fps @ 2016x1512 ; 60fps @ 1920x1080 ; 30fps @ 3840x2160;
Output Format	YUV422 8-bit
Focus Type	PDAF
Focus Distance	100mm to Infinity
Sensor	SONY 13MP CMOS Image Sensor IMX258
Optical Format	1/3.06"
Pixel Size	1.12 μm x 1.12 μm
Color / Mono	Color sensor
Resolution	4208 (H) x 3120 (V) (active pixels)
ISP	Included
USB30 Controller	Included
Interface	USB 3.0 type-c
Power Supply Range	5 VDC (from USB3.0 port)
Power Consumption	Min: 1.48W Max: 4.23 W
Operating Temp	TBD
Storage Temp	TBD
IP Rating	TBD
Weight	~ 58 g



Applications

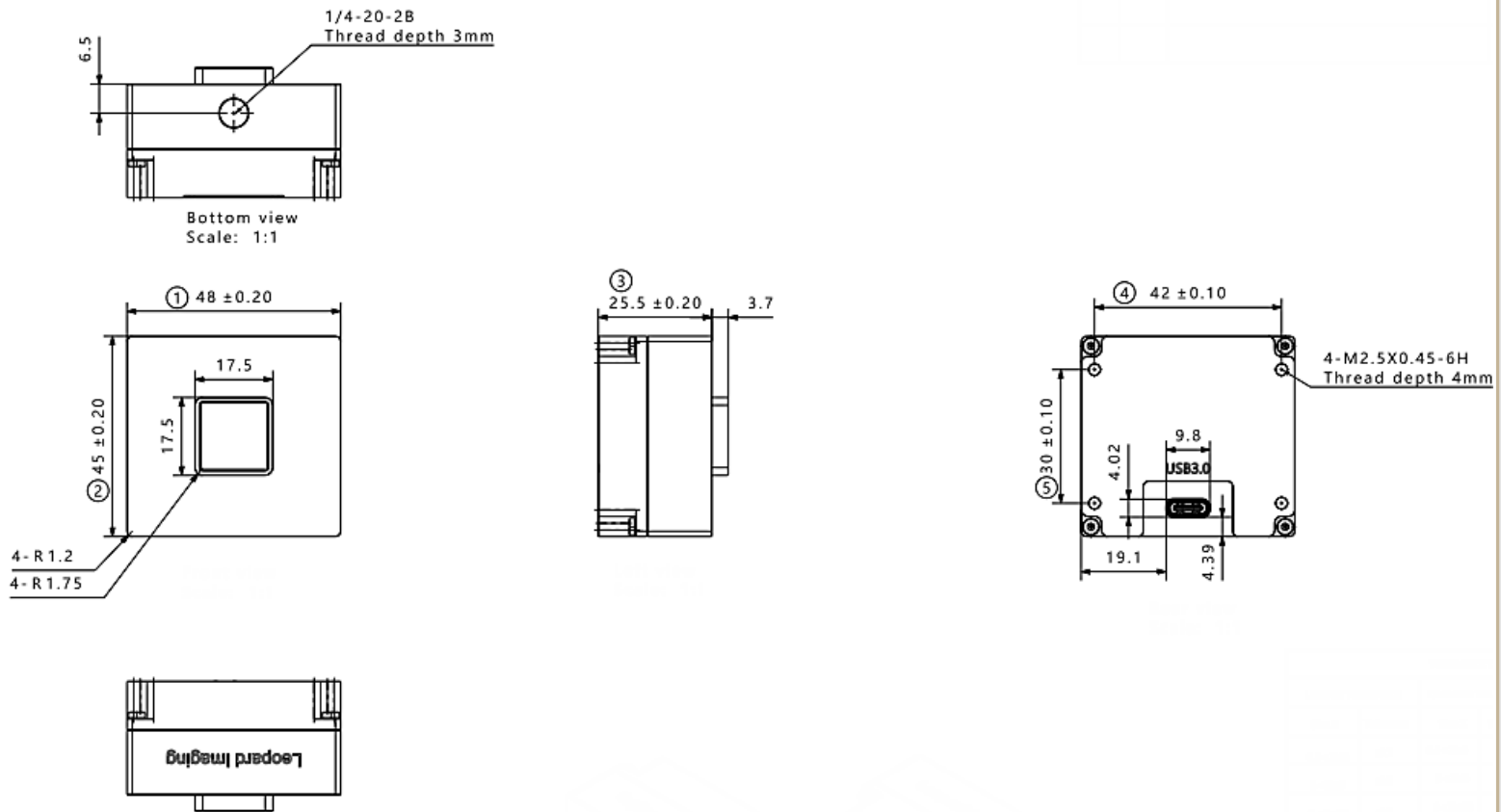
- Cell Phone
- Tablet PC

Lens Specifications

Focal Length	3.46 mm
Aperture, F/#	2.2 \pm 5%
Field of View (FOV)	79° diagonal



DIMENSIONS



NOTE:

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

TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
0.5 < X ≤ 3	±0.1	0.5 < X ≤ 3	±0.2	X ≤ 10	±1°
3 < X ≤ 6	±0.1	3 < X ≤ 6	±0.5	10 < X ≤ 50	±30'
6 < X ≤ 30	±0.2	6 < X ≤ 30	±1	50 < X ≤ 120	±20'
30 < X ≤ 120	±0.3	X > 30	±2	120 < X ≤ 400	±10'
120 < X ≤ 400	±0.5			X > 400	±5'
400 < X ≤ 1000	±0.8				
X > 1000	±1.2				

- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	04 Nov 2025
0.2	Updated pictures on the page 1 & 2.	17 Nov 2025

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