



LEOPARD
IMAGING

LI-USB30-IMX676-YUV-115H



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INTRODUCTION

The LI-USB30-IMX676-YUV-115H is a high resolution USB 3.0 camera. It's equipped with Sony diagonal 10.04 mm (Type 1/1.6) STARVIS2 CMOS color sensor IMX676, ISP and USB 3.0 controller. This camera outputs YUV422 / JPEG data.

SPECIFICATIONS

Frame Rate	YUV422: 10 fps @ 3516 x 3488 JPEG: 15 fps @ 3552 x 3488
Output Format	YUV422 / MJPEG
Sensor	Sony Diagonal 10.04 mm STARVIS2 CMOS Sensor IMX676
Optical Format	1/1.6"
Pixel Size	2.0 x 2.0 μ m
Color / Mono	Color sensor
Shutter	Electronic rolling shutter
Resolution	3552 (H) x 3552 (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	YUV422: 0.334A @ 5 VDC (10fps @ 3516x3488)
	JPEG: 0.349A @ 5 VDC (15fps @ 3552x3488)
Operating Temp	TBD
Storage Temp	TBD
Ingress Protection	TBD
Weight	TBD



APPLICATIONS

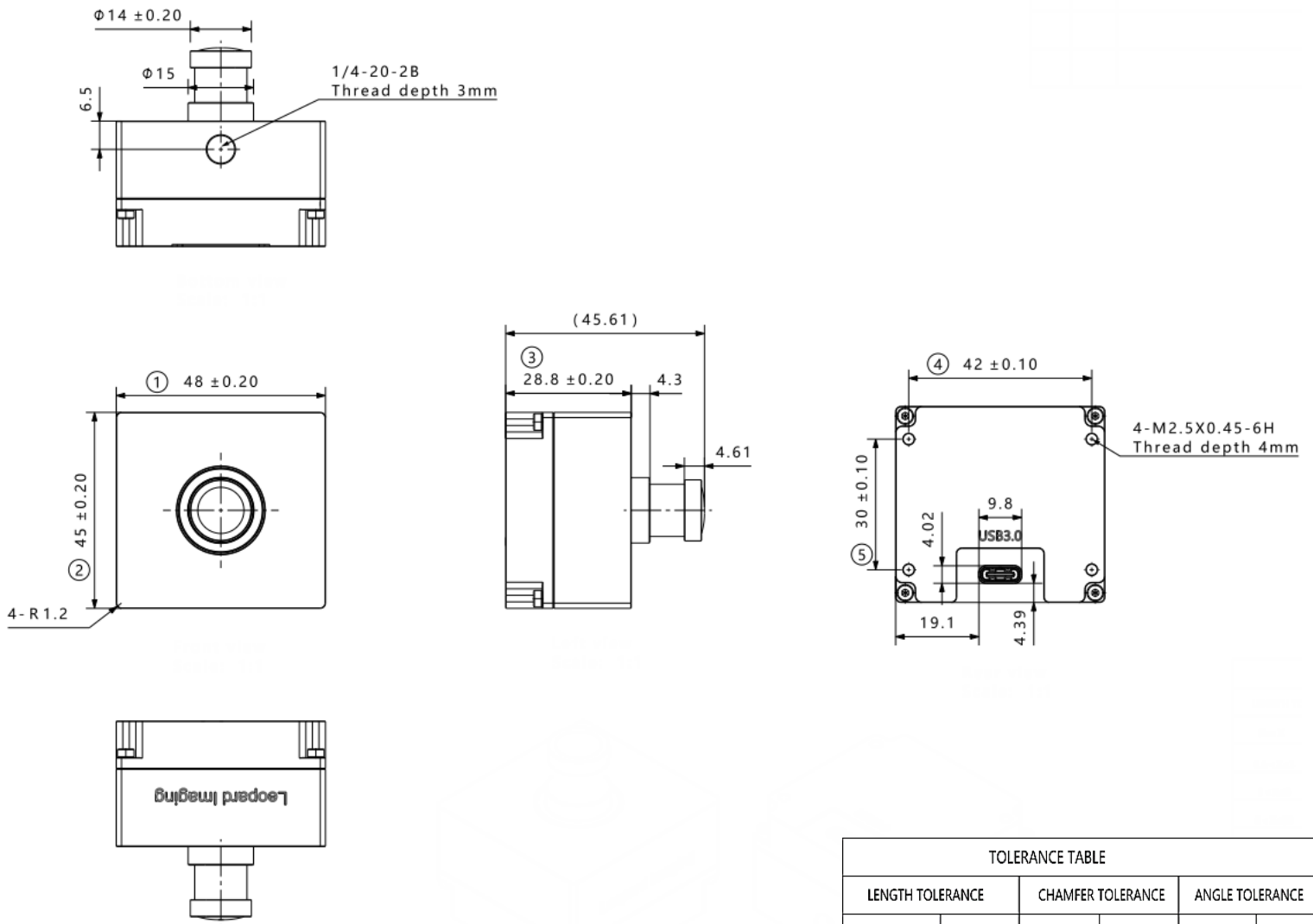
- Security

Lens Specifications

Effective Focal Length	3.8 mm
Aperture, F/#	2.6
Field of View (FOV)	115° horizontal
TV Distortion	-14.8%
Relative Illumination	77.9%
IR Filter	RGB 650nm
Lens Mount	M12 x P0.5



DIMENSIONS

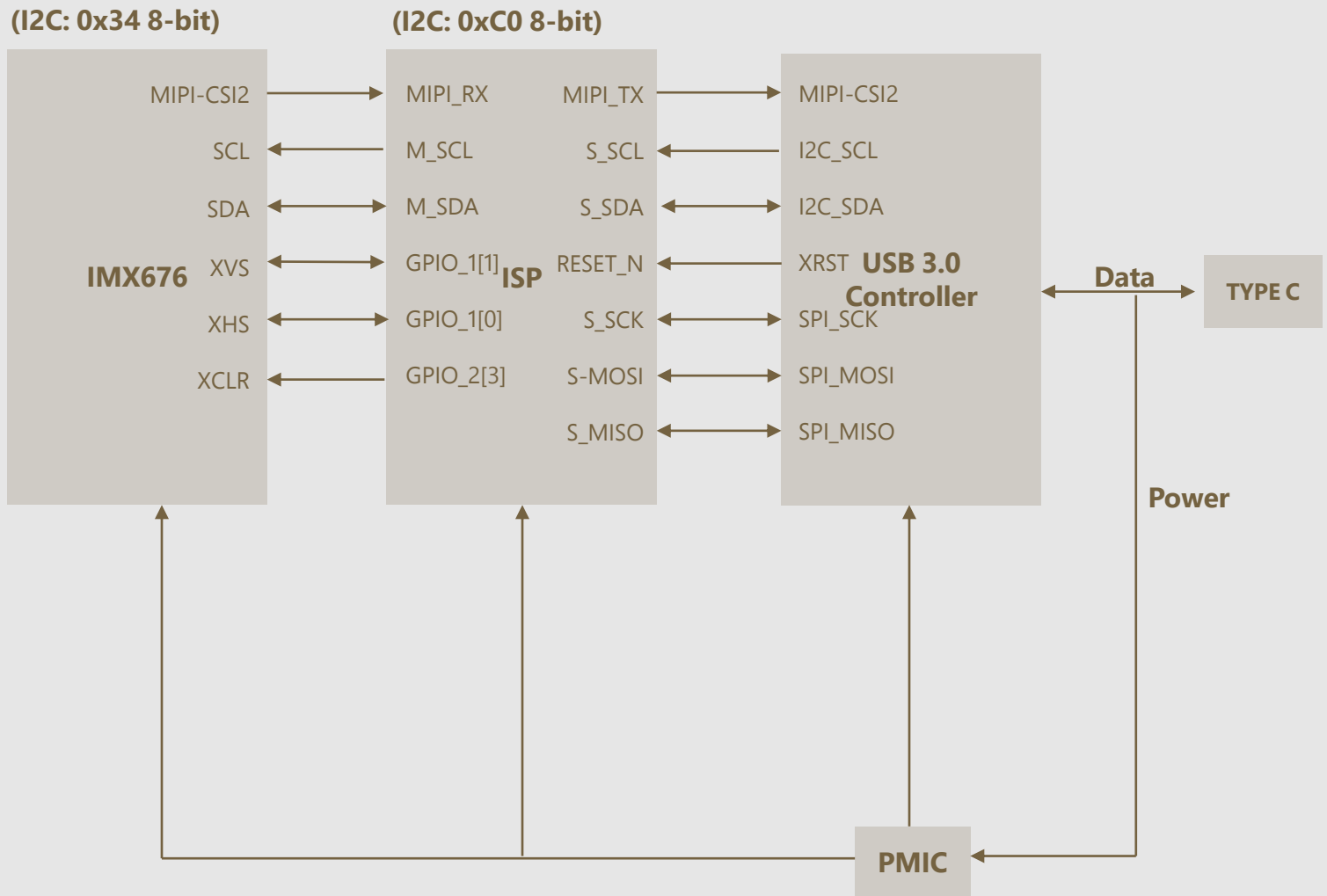


NOTE:

- ⊗ marked are important sizes.
- Other unmarked tolerances refer to the tolerance table.
- Unit: mm

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				

SYSTEM BLOCK DIAGRAM



- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	05 Oct 2025
0.2	Updated pictures on the page 1 & 2.	18 Nov 2025

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