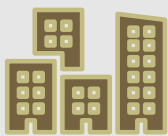




LEOPARD
IMAGING

LI-USB32-AR2020-079H



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Key Features

- USB 3.2 GEN2 10Gbps high Speed support
- RAW data output without compression
- UVC compliant
- Color camera
- Supports M12 lens
- Allows customization
- USB + 5 VDC powered device
- Part#: **LI-USB32-AR2020-079H**

Lens Specifications

Effective Focal Length	4.5 mm
Aperture, F/#	1.8
Field of View (FOV)	90° diagonal
	79° horizontal
	63° vertical
Optical Distortion	-2.8%
Relative Illumination	> 50%
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5

Applications

- Surveillance Camera
- Video Conferencing
- Machine Vision
- 3D and Stereo Imaging

SDK Supported

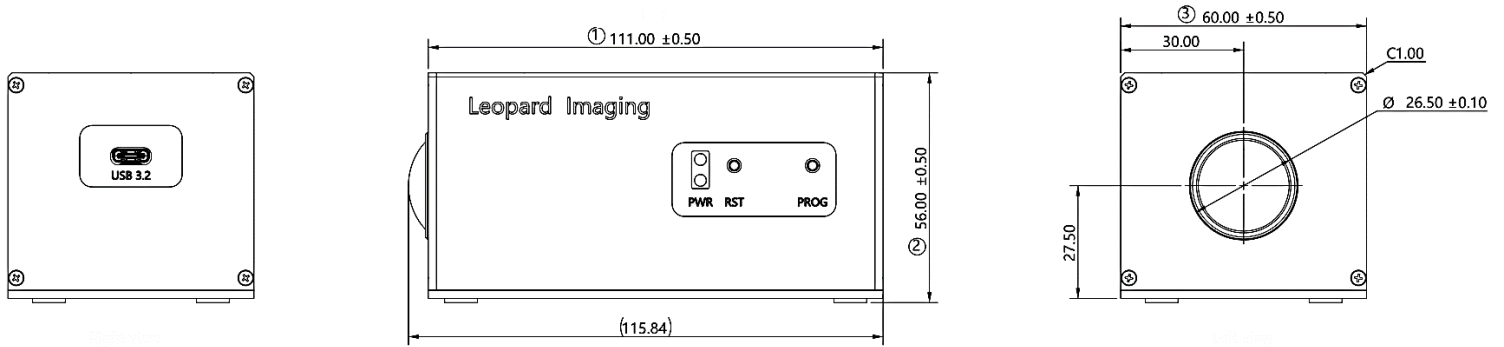
- Camera Tool Source Code in C#
- Capture & Display
- RAW to RGB Conversion
- Save file as BMP & RAW format
- Color Matrix
- Register access function



SEPCIFICATIONS

General Behavior	
Video Resolution @ Frame Rate	5120 x 3840 @ 25 fps
Interface (Optical)	
IR Cut Filter (on lens)	650 nm IR cut filter
Sensor	ON Semiconductor 20 Mp CMOS sensor AR2020
Shutter	Global
Color / Mono	Color
Format	1/1.8"
Active Pixels	5120 (H) x 3840 (V)
Pixel Size	1.4 μ m Back Side Illuminated (BSI)
Lens Mount	M12
Interface (Electrical)	
Interface	USB 3.2
Supply Voltage	USB 3.2 +5 VDC power source
Power Consumption	987 mA @ 5V (5120 x 3840 @ 25 fps)
Weight	
LI-USB32-AR2020-079H	~320 g
Adjustment (Manual)	
Shutter	TBD
Gain	TBD
Register Access	TBD
Temp Info (LI-USB32-AR2020-079H)	
Operating Temp	TBD
Storage Temp	TBD
Supported OS	
Windows OS, Standard Linux OS and other OS with full UVC drivers	

DIMENSIONS



NOTE:

- \otimes 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
$0.5 < X \leq 3$	± 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				

RST & PROG BUTTON

Function	Description
RST	FX10 reset button
PROG	FX10 program button



INTERFACES OF INDICATOR

Function	Description
Power	LED turns on after power on
Program	LED turns on only when pressing the PROG button



● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	16 May 2024
0.2	Updated Power Consumption.	03 Jun 2024

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