



LEOPARD
IMAGING

LI-USB32-AR2020-079H



Address:

910 Auburn Ct
Fremont, CA 94538
USA



Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960



Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

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

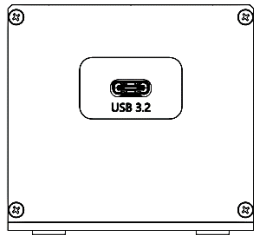
- Camera Tool Source Code in C#
- Capture & Display
- RAW to RGB Conversion
- Save file as BMP & RAW format
- Color Matrix
- Register access function



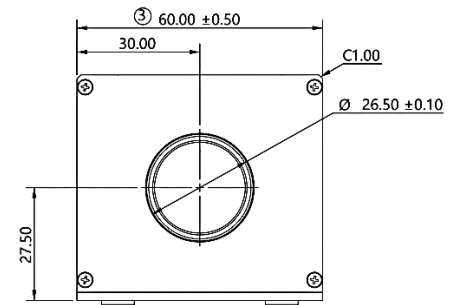
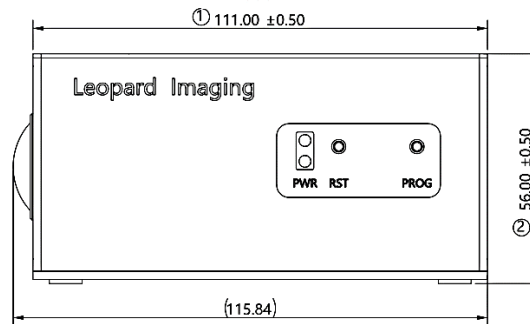
SEPCIFICATIONS

General Behavior	
Video Resolution @ Frame Rate	3840 x 3840 @ 20.1 fps
Interface (Optical)	
IR Cut Filter (on lens)	650 nm IR cut filter
Sensor	ON Semiconductor 20 Mp CMOS sensor AR2020
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	870 mA @ 5V (3840 x 3840 @ 20.1 fps)
Weight	
LI-USB32-AR2020-079H	~320 g
Adjustment (Manual)	
Shutter	Yes
Gain	Yes
Register Access	Yes
Temp Info (LI-USB32-AR2020-079H)	
Operating Temp	-20°C ~ +50°C
Storage Temp	-40°C ~ +85°C
Supported OS	
Windows OS, Standard Linux OS and other OS with full UVC drivers	

DIMENSIONS



Top view



Left view

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				

• 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
1.0	First Release.	25 Jul 2024
1.1	Deleted the shutter type.	14 Sep 2024

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