



**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

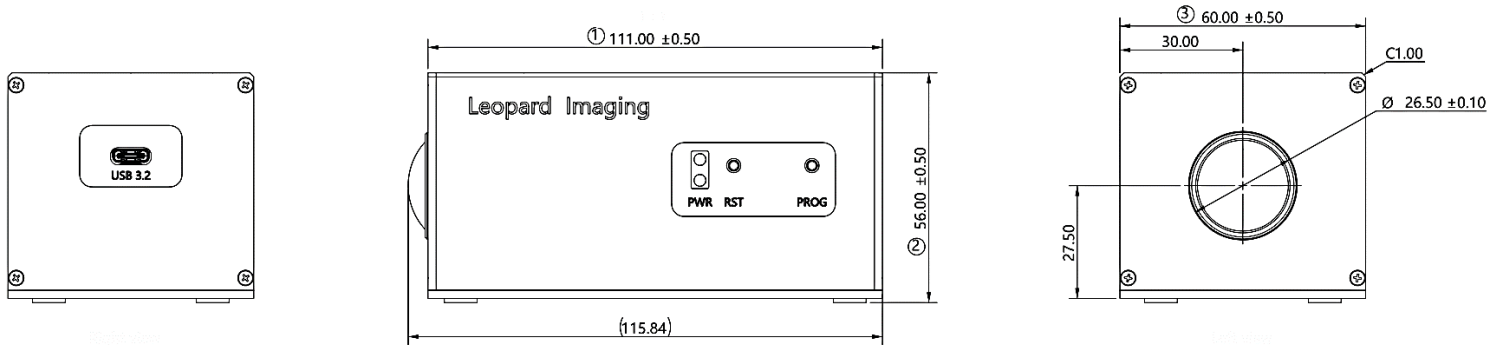
- Camera Tool Source Code in C#
- Capture & Display
- RAW to RGB Conversion
- Save file as BMP & RAW format
- Color Matrix
- Register access function



## SEPCIFICATIONS

<b>General Behavior</b>	
Video Resolution @ Frame Rate	3840 x 3840 @ 20.1 fps
<b>Interface (Optical)</b>	
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 $\mu$ m Back Side Illuminated (BSI)
Lens Mount	M12
<b>Interface (Electrical)</b>	
Interface	USB 3.2
Supply Voltage	USB 3.2 +5 VDC power source
Power Consumption	870 mA @ 5V (3840 x 3840 @ 20.1 fps)
<b>Weight</b>	
LI-USB32-AR2020-079H	~320 g
<b>Adjustment (Manual)</b>	
Shutter	Yes
Gain	Yes
Register Access	Yes
<b>Temp Info (LI-USB32-AR2020-079H)</b>	
Operating Temp	-20°C ~ +50°C
Storage Temp	-40°C ~ +85°C
<b>Supported OS</b>	
Windows OS, Standard Linux OS and other OS with full UVC drivers	

## 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
$0.5 < X \leq 3$	$\pm 0.1$	$0.5 < X \leq 3$	$\pm 0.2$	$X \leq 10$	$\pm 1^\circ$
$3 < X \leq 6$	$\pm 0.1$	$3 < X \leq 6$	$\pm 0.5$	$10 < X \leq 50$	$\pm 30'$
$6 < X \leq 30$	$\pm 0.2$	$6 < X \leq 30$	$\pm 1$	$50 < X \leq 120$	$\pm 20'$
$30 < X \leq 120$	$\pm 0.3$	$X > 30$	$\pm 2$	$120 < X \leq 400$	$\pm 10'$
$120 < X \leq 400$	$\pm 0.5$			$X > 400$	$\pm 5'$
$400 < X \leq 1000$	$\pm 0.8$				
$X > 1000$	$\pm 1.2$				

## 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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