



LEOPARD IMAGING INC

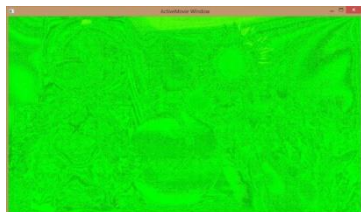
LI-USB30-AR0234CSX Data Sheet

Key Features

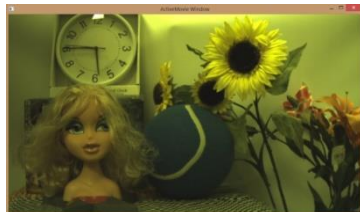
- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- Color or Mono camera
- Support M12 lens
- Provide customization services
- USB +5VDC powered device
- Part#:
 - LI-USB30-AR0234CSC
 - LI-USB30-AR0234CSM

Default Lens Specification

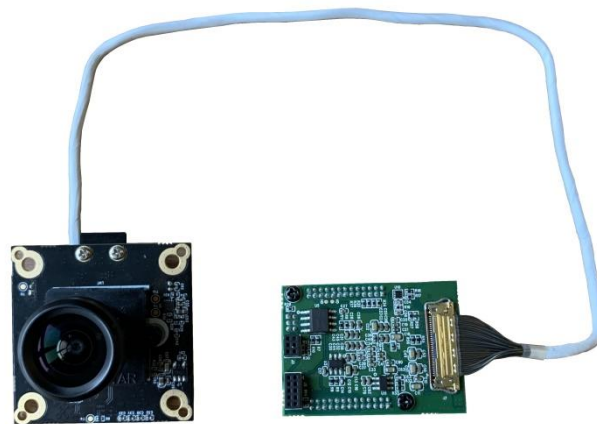
- Model: SYD1201A
- Focal length: 3.7 mm
- Aperture, F/#: 2.8 +/- 5%
- FOV (D/H/V): 86.3° / 77.5° / 48.7°
- TV Distortion: -1.0 %
- Mount: M12 x P0.5



RAW data streaming



Camera Tool view mode



BOM

#	Items	QTY
1	LI-AR0234CSX-MIPI-M12	1
2	LI-USB30 Main board	1
3	LI-CSLINK-IPX-TESTER	1
4	FAW-1233-02 (200mm)	1

Applications

- Machine Vision
- Medical Camera
- Scientific Camera

SDK Supported

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



Leopard Imaging Inc.

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Specification

General Behavior		
Video Resolution @ Frame rate	1920 x 1080 @ 40 fps	
Bit Depth	12-bit	
Interface (Optical)		
Sensor specification	ON Semiconductor CMOS 1/2.6" Image Sensor AR0234CS	
Shutter	Global	
Color/Mono	Color or Mono	
Format	1/2.6"	
Total number of pixels	H: 1920, V:1200 (Current firmware supports 1920x1080)	
Pixel size	H:3.0 um, V: 3.0 um	
Lens mount	M12 lens mount support	
Interface (Electrical)		
Interface	USB 3.0	
Supply voltage	USB 3.0 +5 VDC power source	
Current consumption	TBD	
Interface (Mechanical)		
Dimensions	LI-AR0234CSX-MIPI	L: 38 mm, W: 38 mm
	USB 3.0 MIPI Tester	L: 36.5 mm, W: 2 mm
Mass	32 g	
Adjustment (Manual)		
Shutter	TBD	
Gain	TBD	
Register Access	Yes	
Adjustment (Auto)		
Shutter	TBD	
Environmental		
Max. temperature (operation)	0 °C ~ 50 °C (32 °F~ 122 °F)	
Max. temperature (storage)	-20 °C ~ 80 °C (-4 °F~176 °F)	
Max. humidity (operation)	20 % ~ 80 %, relative, non-condensing	
Max. humidity (storage)	20 % ~ 80 %, relative, non-condensing	
Supported OS		
Windows OS, Standard Linux OS and other OS with full UVC drivers		



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Revision History

Revision	Description	Release Date
1.0	First Release	11. Jun. 2020



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