



LEOPARD IMAGING INC

Rev. 1.1

LI-USB30-IMX172

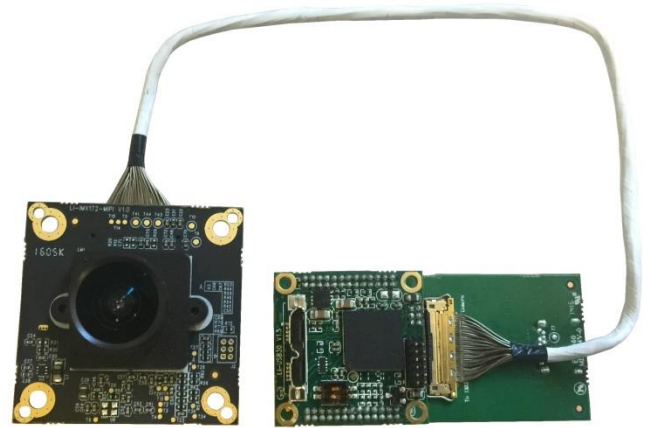
Data Sheet

Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- Color camera
- Support M12 / CS lens
- Provide customization services
- USB +5VDC powered device
- Part#: **LI-USB30-IMX172**

Default Lens Specification

- Model: YC-155N
- Focal length: 2.8 mm
- Aperture, F/#: 2.0
- Built in 650nm IR cut filter
- FOV (D/H/V): 120 °/ 107 °/64 °
- TV Distortion: < 12%
- Mount: M12 x P0.5



BOM

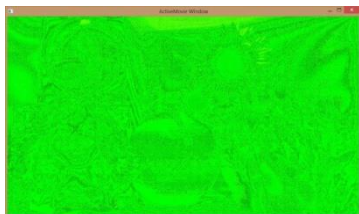
#	Items	QTY
1	LI-IMX172-MIPI	1
2	LI-USB30 Main board	1
3	MIPI adapter board	1
4	FAW-1233-02 (200mm)	1

Applications

- Machine Vision
- Medical Camera
- Scientific Camera

SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- OpenCV supported through Emgu
- RAW to RGB Conversion
- Save file as BMP & RAW format
- Color Matrix



RAW data streaming



Camera Tool view mode



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Specification

General Behavior		
Video Resolution @ Frame rate	3000 x 3000 @ 5 fps 800 x 1440 @ 20 fps	
Dynamic range	TBD	
Interface (Optical)		
IR cut filter (on lens)	Yes, 650nm IR cut filter	
Sensor specification	Sony Diagonal 7.81 mm (Type 1/2.3) 12.4M CMOS Image Sensor IMX172	
Shutter	Rolling	
Color/Mono	Color	
Format	1/2.3"	
Total number of pixels	H:4072, V:3046	
Pixel size	H:1.55 μ m, V: 1.55 μ m	
Lens mount	CS / M12 lens mount support (Default: M12 lens)	
Interface (Electrical)		
Interface	USB 3.0	
Supply voltage	USB 3.0 +5 VDC power source	
Current consumption	Approx. 266 mA at 5 VDC	
Interface (Mechanical)		
Dimensions	LI-IMX172-MIPI	L: 38 mm, W: 38 mm
	USB 3.0 MIPI Tester	L: 56 mm, W: 26 mm
Mass	32 g	
Adjustment (Manual)		
Shutter	Support	
Gain	Support	
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	



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