



LEOPARD IMAGING INC

Rev. 1.1

# LI-USB30-IMX290

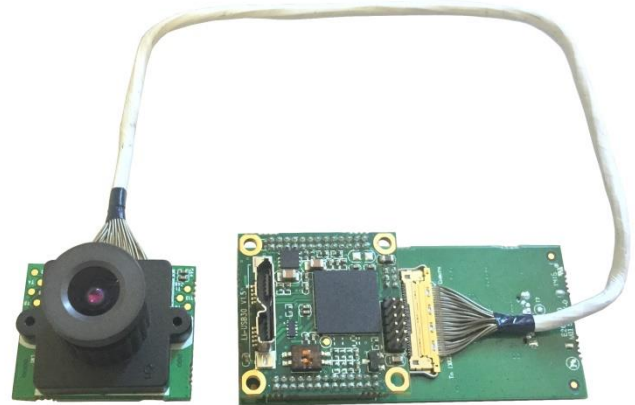
## Data Sheet

### 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-IMX290**

### Default Lens Specification

- Model: LC001E-0530
- Focal length: 3.98 mm +/- 5%
- Aperture, F/#: 2.3 +/- 5%
- Built in 650nm IR cut filter
- FOV (D/H/V): 96 ° / 82.4 ° / 50 °
- TV Distortion: < 12%
- Mount: M12 x P0.5



### BOM

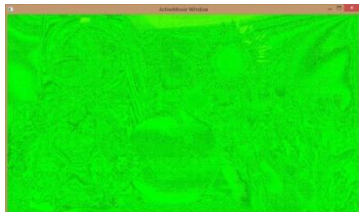
#	Items	QTY
1	LI-IMX290-MIPI	1
2	LI-USB30 Main board	1
3	MIPI adapter board	1
4	FAW-1233-02(200mm)	1

### 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	1945 x 1108 @ 30 fps	
Dynamic range	TBD	
Interface (Optical)		
IR cut filter (on lens)	Yes, 650nm IR cut filter	
Sensor specification	Sony Diagonal 6.46 mm (Type 1/2.8) CMOS Image Sensor IMX290	
Shutter	Rolling	
Color/Mono	Color	
Format	1/2.8"	
Total number of pixels	H:1945, V:1109	
Pixel size	H:2.9 um, V: 2.9 um	
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. 185 mA at 5 VDC	
Interface (Mechanical)		
Dimensions	LI-IMX290-MIPI	L: 27 mm, W: 21 mm
	USB 3.0 MIPI Tester	L: 56 mm, W: 26 mm
Mass	30 g	
Adjustment (Manual)		
Shutter	Support	
Gain	Support	
Adjustment (Auto)		
Shutter	Support (software)	
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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