



LEOPARD IMAGING INC

Rev. 1.0

# LI-USB30-IMX230

## Data Sheet

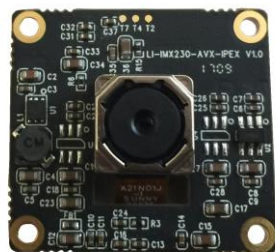
### Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- 21MP image sensor IMX230
- Color sensor
- Support manual focus control
- Provide customization services
- USB +5VDC powered device
- Compact Size: 26mmx26mm
- I-PEX cable length: 200mm support multiple length options
- Part#: **LI-USB30-IMX230**



### Lens Specification

- Focusing Range: 8cm to Infinity
- Focal length: 4.52 mm
- F/#: 2.0 +/- 5%
- FOV (D): 79.3° +/- 2°
- TV Distortion < 1% (70CM)

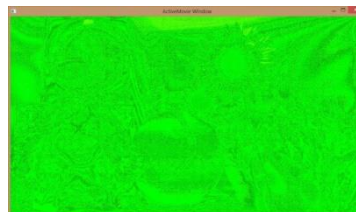


### SDK Supported

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

### Applications

- Machine Vision
- Medical Camera
- Scientific Camera



RAW data streaming



Camera Tool view mode



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# Specification

General Behavior		
Video Resolution @ Frame rate	5344 x 4016 @ 4 fps 2672 x 2008 @ 6 fps 1366 x 1044 @ 6 fps	
Sensitivity	TBD	
Dynamic range	10 bit	
Interface (Optical)		
IR cut filter (on lens)	Yes, 650nm IR cut filter	
Sensor specification	Sony 21MP CMOS image sensor IMX230	
Shutter	Rolling	
Format	1/2.4"	
Resolution	H:5408, V:4112	
Pixel size	H: 1.12 um, V: 1.12 um	
Focus	Support manual control	
Interface (Electrical)		
Interface	USB 3.0	
Supply voltage	USB 3.0 +5 VDC power source	
I-PEX cable	FAW-1233-02 (200mm)	
Current consumption (full size)	Approx. 180 mA ~ 280 mA at 5 VDC based on focus position	
Interface (Mechanical)		
Dimensions	USB 3.0 Tester	L: 26 mm, W: 26 mm, H: 20 mm
	IMX230 sensor board	L: 26 mm, W: 26 mm, H: 9 mm
Mass	16 g	
Adjustment (Manual)		
Shutter	Support	
Gain	Support	
Focus	Support	
Adjustment (Auto)		
Shutter	Support (software)	
Gain	TBD	
Focus	Not Support	
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	

