



LEOPARD IMAGING INC

Rev. 1.1

# LI-USB30-OV2311-xxxH

## Data Sheet

### Key Features

- USB 3.0 Super Speed support
- 10-bit RAW data output without compression
- UVC compliance
- Monochrome sensor
- Global shutter
- Resolution: 1600 x 1300
- Frame rate: 30 fps
- Support register access function
- Provide customization services
- USB +5VDC powered device
- Compact Size: 26mmx26mm
- 2 Boards are stacked
- Part#:  
LI-USB30-OV2311-125H  
LI-USB30-OV2311-110H
- Support multiple module options
- OV2311 module Part#:  
LI-OV2311-MIPI-125H  
LI-OV2311-MIPI-M8-H110



### Lens Specification

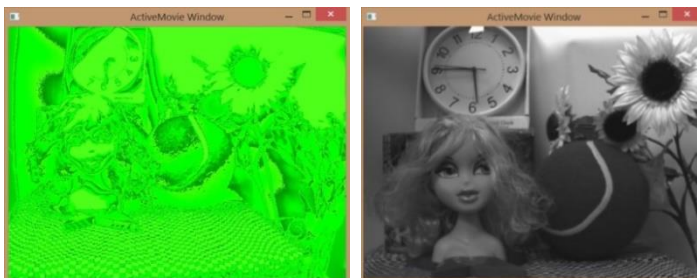
- Focusing Range: 50cm to Infinity
- Focal length: 2.2 mm (125H)  
2.65mm (110H)
- F/#: 2.5 (125H) / 2.0 (110H)
- FOV (H): 125 °/ 110 °
- TV Distortion < -87.6% (125H)  
< -15% (110H)

### Applications

- Machine Vision
- Scientific Camera

### SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- RAW to Grayscale Conversion
- Save file as BMP & RAW format
- Access registers



RAW data streaming

Camera Tool view mode



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# Specification

General Behavior	
Video Resolution @ Frame rate	1600 x 1300 @ 30 fps
Dynamic range	10 bit
Interface (Optical)	
IR cut filter (on lens)	No
Sensor specification	OmniVision CMOS 2MP image sensor OV2311
Shutter	Global shutter
Format	1/2.9"
Resolution	H:1600, V:1300
Pixel size	H: 3 um, V: 3 um
Interface (Electrical)	
Interface	USB 3.0
Supply voltage	USB 3.0 +5 VDC power source
Current consumption	Approx. 225 mA at 5 VDC
Interface (Mechanical)	
Dimensions	L: 26 mm, W: 26 mm, H: 20 mm
Mass	20 g
Adjustment (Manual)	
Shutter	Support
Gain	Support
Register Access	Support
Adjustment (Auto)	
Shutter	TBD
Gain	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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