



LEOPARD IMAGING INC

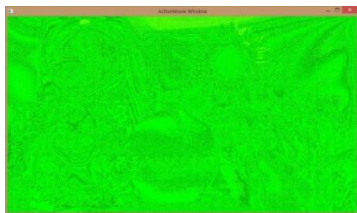
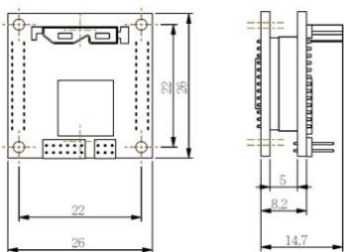
Rev. 1.1

Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- USB 2.0 backwards compatible
- Support External Trigger, Software Trigger
- Support either CS or M12 lens
- Provide customization services
- USB +5VDC powered device
- Compact Size: 26mmx26mm
- 2 Boards are stacked
- Part#:

LI-USB30-P031C (Color)

LI-USB30-P031M (Mono)



RAW data streaming



Camera Tool view mode

LI-USB30-P031X

Data Sheet



Default Lens Specification

- Model: M13B0618WR5
- Focal length: 6.0 mm
- Aperture, F/#: 1.8
- Built in IR cut filter
- FOV (D/H/V): 75 ° / 57 ° / 42 ° (1/2.5", Full 5M)

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



Leopard Imaging Inc.

1130 Cadillac Ct., Milpitas, CA 95035, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com
www.leopard-security.com

Specification

General Behavior	
Video Resolution @ Frame rate	2592 x 1944 @ 14 fps 1920 x 1080 @ 30 fps 800 x 600 @ 90 fps 640 x 480 @ 60 fps
Sensitivity	1.4 V/lux-sec
Dynamic range	12 bit
Trigger mode	External Trigger, Software Trigger
Interface (Optical)	
IR cut filter (on lens)	Yes, 650nm IR cut filter
Sensor specification	Aptina MT9P031 5M pixels Sensor
Shutter	Rolling
Format	1/2.5"
Resolution	H:2592, V:1944
Pixel size	H:2.2 um, V: 2.2 um
Lens mount	CS / M12 lens mount support (Default: M12 lens)
M12 Lens	6.0 mm (default), 4.2 mm, 2.6 mm Focal Length
Interface (Electrical)	
Interface	USB 3.0
Supply voltage	USB 3.0 +5 VDC power source
Current consumption	Approx. 245 mA at 5 VDC
Interface (Mechanical)	
Dimensions	L: 26 mm, W: 26 mm, H: 38 mm
Mass	22 g
Adjustment (Manual)	
Shutter	Support
Gain	Support
Adjustment (Auto)	
Shutter	Support
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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