



LEOPARD IMAGING INC

Rev. 1.4

LI-USB30-OV10640C

Data Sheet

Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- Support External Trigger, Software Trigger
- Color sensor
- Support register access
- Support either CS or M12 lens
- Provide customization services
- USB +5VDC powered device
- Compact Size: 26mmx26mm
- 2 Boards are stacked
- Part#: **LI-USB30-OV10640C**



Default Lens Specification

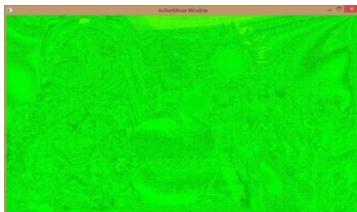
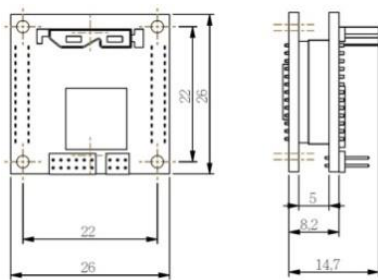
- Model: M13B0618WR5
- Focal length: 6.0 mm
- Aperture, F/#: 1.8
- Built in 650nm IR cut filter
- FOV (D/H/V): 60 ° / 48 ° / 34.5 °

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
- Register access
- Color matrix



RAW data streaming



Camera Tool view mode



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Specification

General Behavior	
Video Resolution @ Frame rate	1280 x 720 @ 30 fps 640 x 480 @ 30 fps
Sensitivity	TBD
Dynamic range	12 bit
Trigger mode	External Trigger, Software Trigger
Interface (Optical)	
IR cut filter (on lens)	Yes, 650nm IR cut filter
Sensor specification	OmniVision CMOS 1.3MP HDR Sensor OV10640
Shutter	Rolling
Format	1/2.56"
Resolution	H:1280, V:1080
Pixel size	H: 4.2 um, V: 4.2 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. 215 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	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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