



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

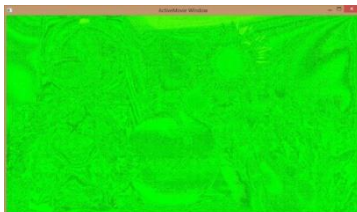
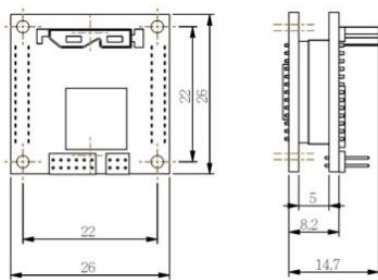
- Model: M13B0618WR5
- Focal length: 6.0 mm
- Aperture, F/#: 1.8
- Built in 650nm IR cut filter
- FOV (D/H/V): 60 ° / 48 ° / 34.5 °

### 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

<b>General Behavior</b>	
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
<b>Interface (Optical)</b>	
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
<b>Interface (Electrical)</b>	
Interface	USB 3.0
Supply voltage	USB 3.0 +5 VDC power source
Current consumption	Approx. 215 mA at 5 VDC
<b>Interface (Mechanical)</b>	
Dimensions	L: 26 mm, W: 26 mm, H: 38 mm
Mass	22 g
<b>Adjustment (Manual)</b>	
Shutter	Support
Gain	Support
<b>Adjustment (Auto)</b>	
Shutter	TBD
Gain	TBD
<b>Environmental</b>	
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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