LEOPARD IMAGING INC

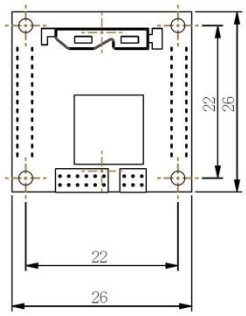
Rev. 1.2

LI-USB30-OV10635 Data Sheet



Key Features

- USB 3.0 Super Speed support
- YUV output without compression
- UVC compliance
- USB 2.0 backwards compatible
- Support either CS or M12 lens
- Provide customization services
- USB +5VDC powered device
- Support WDR
- Compact Size: 26mmx26mm
- 2 Boards are stacked





Default Lens Specification

- Model: M13B0618WR5
- Image format: 1/3”
- Focal length: 6.0 mm
- Aperture, F/#: 1.8
- Built in 650nm IR cut filter
- FOV (D/H/V): 60 °/ 48 °/34.5 °
- Mount: M12 x 0.5 – 6g

Applications

- Machine Vision
- Medical Camera
- Video Conference
- Scientific Camera

SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- Register access

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Specification

General Behavior	
Video Resolution @ Frame rate	1280 x 800 @ 30 fps, WDR 1280 x 720 @ 30 fps, WDR 640 x 480 @ 30 fps, WDR
Sensitivity	TBD
Dynamic range	10 bit
Interface (Optical)	
IR cut filter (on lens)	Yes, 650nm IR cut filter
Sensor specification	OmniVision OV10635 WXGA HDR Image Sensor
Shutter	Rolling
Format	1/2.7”
Resolution	H:1280, V:800
Pixel size	H:4.2 um, V: 4.2 um
WDR	Support WDR (Wide Dynamic Range)
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. 240 mA at 5 VDC
Interface (Mechanical)	
Dimensions	L: 26 mm, W: 26 mm, H: 38 mm
Mass	22 g
Adjustment (Manual)	
Shutter	TBD
Gain	TBD
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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