



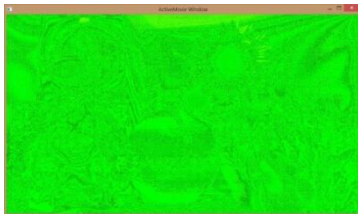
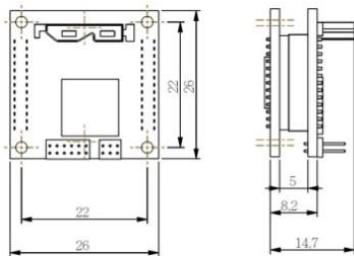
LEOPARD IMAGING INC

LI-USB30-M021X

Data Sheet

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-M021C (Color)
LI-USB30-M021M (Mono)



RAW data streaming



Camera Tool view mode



Default Lens Specification

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

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



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Specification

General Behavior	
Video Resolution @ Frame rate	1280 x 960 @ 30 fps 1280 x 720 @ 60 fps 800 x 460 @ 90 fps 640 x 480 @ 30 fps
Sensitivity	TBD
Dynamic range	12 bit
Trigger mode	External Trigger, Software Trigger
Interface (Optical)	
IR cut filter	Yes
Sensor specification	Aptina MT9M021 Global Shutter 720p HD Sensor
Shutter	Global
Format	1/3"
Resolution	H:1280, V:960
Pixel size	H:3.75 μ m, V: 3.75 μ m
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. 170 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 (0 ~ 18 dB)
Adjustment (Auto)	
Shutter	Support
Gain	Support (0 ~ 18 dB)
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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