



LEOPARD IMAGING INC

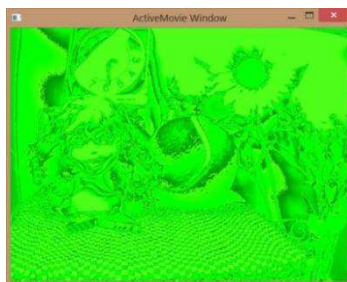
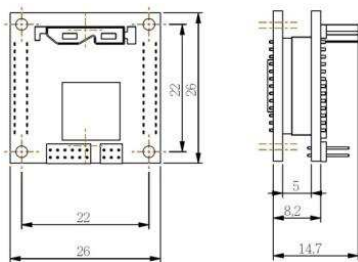
Rev. 1.2

LI-USB30-V034M

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



RAW data streaming



Camera Tool view mode



Default Lens Specification

- Model: M13B0618IR
- Image format: 1/3"
- Focal length: 6.0 mm
- Aperture, F/#: 1.8
- IR cut filter: No
- 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



Leopard Imaging Inc.

48820 Kato Rd, Suite 100B, Fremont, CA 94538, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com

Specification

General Behavior	
Video Resolution @ Frame rate	640 x 480 @ 60 fps 320 x 240 @ 120 fps
Sensitivity	4.8 V/lux-sec
Dynamic range	10 bit
Trigger mode	External Trigger, Software Trigger
Interface (Optical)	
IR cut filter	No
Sensor specification	Aptina MT9V034 Global Shutter WVGA Sensor
Shutter	Global
Format	1/3"
Resolution	H:752, V:480
Pixel size	H:6.0 um, V: 6.0 um
Color	Monochrome
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. 130 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



Leopard Imaging Inc.

48820 Kato Rd, Suite 100B, Fremont, CA 94538, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com