



LEOPARD IMAGING INC

LI-USB30-AR1820CB

Data Sheet

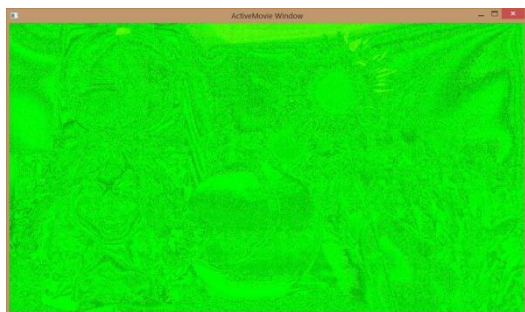
Applications

- Machine Vision
- Medical Camera
- Scientific Camera



SDK Supported

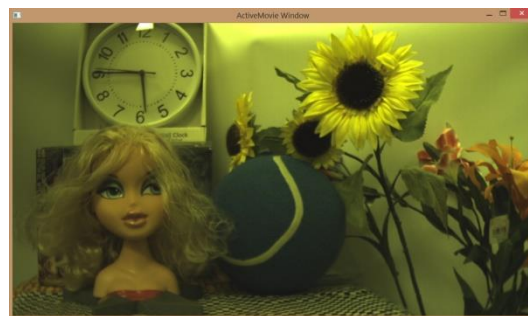
- Camera Tool Source Code in C#
- Capture & Display
- OpenCV supported through Emgu
- RAW to RGB Conversion
- Save file as BMP & RAW format



RAW data streaming

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 CS lens (Not include Lens)
- Provide customization services
- USB +5VDC powered device



Camera Tool view mode



Leopard Imaging Inc.

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Specification

General Behavior	
Video Resolution @ Frame rate	4912 x 3684 @ 3 fps 1920 x 1080 @ 30 fps
Sensitivity	0.62 V/lux-sec
Dynamic range	12 bit
Interface (Optical)	
IR cut filter	Yes
Sensor specification	Aptina AR1820 18Mp CMOS Digital Image Sensor
Shutter	Rolling
Format	1/2.3"
Resolution	H:4912, V:3684
Pixel size	H:1.25 um, V: 1.25 um
Lens mount	CS lens mount support
Interface (Electrical)	
Interface	USB 3.0
Supply voltage	USB 3.0 +5 VDC power source
Current consumption	Approx. 330 mA at 5 VDC
Interface (Mechanical)	
Dimensions	L: 30 mm, W: 30 mm, H: 30 mm
Mass (without lens)	30 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



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