



Rev. 1.1

LI-USB30-AR023ZWDRB

Data Sheet

Key Features

- USB 3.0 Super Speed support
- ON Semiconductor AR023Z 1080p HD Sensor
- Pixel Size: 3.0um x 3.0um
- YUV output without compression
- UVC compliance
- Support External Trigger, Software Trigger
- Support register access function
- Support CS lens
- Provide customization services
- USB +5VDC powered device
- Support 1080P WDR
- Built in AP0202 ISP
- Compact Size: 30mm x 30mm
- Part#: **LI-USB30-AR023ZWDRB**



Applications

- 1080p30 video applications
- Medical Camera
- Video Conference
- Scientific Camera
- High dynamic range imaging

SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- Register Access
- Trigger mode



Leopard Imaging Inc.

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Specification

General Behavior	
Video Resolution @ Frame rate	1920 x 1080 @ 30 fps, WDR
Max Dynamic range	Up to 105dB
Interface (Optical)	
IR cut filter (on lens)	Yes
Sensor specification	ON Semiconductor AR023Z 1080p HD Sensor
Shutter	Rolling
Format	1/2.7"
Resolution	H:1928, V:1088
Pixel size	H:3.0 um, V: 3.0 um
WDR	Support WDR (Wide Dynamic Range)
Color / Mono	Color
Lens mount	CS lens mount support
Interface (Electrical)	
Interface	USB 3.0
Supply voltage	USB 3.0 +5 VDC power source
Current consumption	Approx. 297 mA at 5 VDC
Trigger Connector	Mating cable: LI-USB3-TRIG-CABLE
Interface (Mechanical)	
Dimensions	L: 30 mm, W: 30 mm, H: 30 mm
Mass (without lens)	30 g
Adjustment (Manual)	
Shutter	TBD
Gain	TBD
Register access	Support
Adjustment (Auto)	
Shutter	Support (by default)
Gain	Support (by default)
Environmental	
Max. temperature (operation)	-10 °C ~ 70 °C (14 °F~158 °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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