**LEOPARD IMAGING INC**

Rev. 1.2

Key Features

- USB 3.0 Super Speed support
- YUV output without compression
- UVC compliance
- Support External Trigger, Software Trigger
- Support register access function
- Support either CS or M12 lens
- Provide customization services
- USB +5VDC powered device
- Support 1080P WDR
- Built in AP0202 ISP
- Compact Size: 26mmx26mm
- 2 Boards are stacked
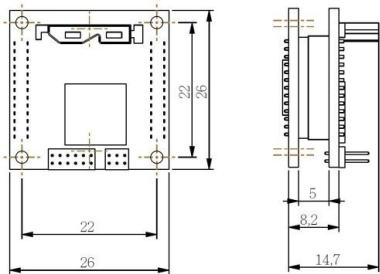
Default Lens Specification

- Model: M13B0618WR5
- Focal length: 6.0 mm
- Aperture, F/#: 1.8
- Built in IR cut filter
- FOV (D/H/V): 69° / 58° /31°
- 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	1920 x 1080 @ 30 fps, WDR
Sensitivity	TBD
Dynamic range	12 bit
Interface (Optical)	
IR cut filter (on lens)	Yes
Sensor specification	ON Semiconductor AR023Z 1080p HD Sensor
Shutter	Rolling
Format	½.7"
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 / 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. 297 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
Register access	Support
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

Mouser Electronics

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   [LI-USB30-AR023ZWDR](#)