



Bigeye G G-1100 Cool

- Outstanding signal-to-noise ratio
- Exposure time up to more than 4200 s
- 10 Megapixel resolution

基本描述

11 Megapixel CCD camera, cooled OnSemi 35 mm sensor

The Bigeye G-1100B Cool is a high-resolution cooled CCD camera. It includes a sensitive 35 mm OnSemi sensor. Due to the cooling to 0 °C, this camera features high-resolution imaging with outstanding signal-to-noise ratio.

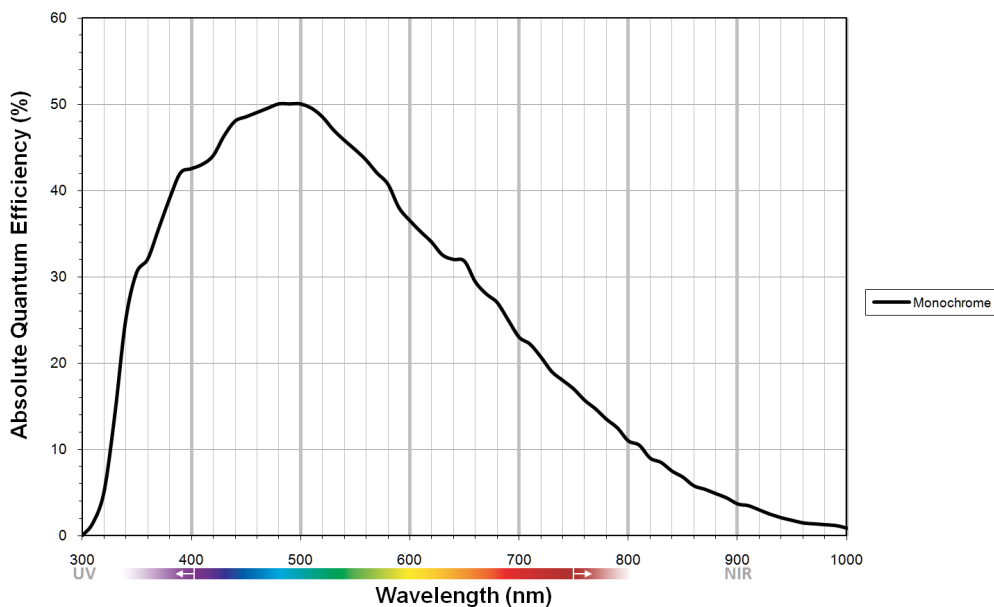
Benefits and features:

- GigE Vision, multi-functional, user-configurable I/O interface
- OnSemi KAI-11002 sensor, 4024 x 2680 pixels, quantum efficiency @530 nm: 59%, peltier cooled to 0 °C, Exposure time up to 4292 s (≈ 71 min)
- Reliable operation under rough industrial conditions

性能参数

Bigeye G	G-1100 Cool
接口	IEEE 802.3 1000baseT
分辨率	4024 (H) × 2680 (V)
传感器	ON Semi KAI-11002
传感器类型	CCD Progressive
传感器尺寸	Type 35 mm
像元尺寸	9 μm × 9 μm
Cooling temperature	0 °C
Dark noise	40 e-
Dark current	0.010 e-/pixel/s
Saturation capacity	54000 e-

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Dynamic range	63 dB
标准镜头接口	F-Mount
最大满帧帧率	1.58 fps
ADC	14 bit
缓存 (RAM)	32 MByte
输出	
Bit位数	12 bit
黑白像素格式	Mono8, Mono12, Mono12Packed
通用输入输出(GPIOs)	
TTL I/Os	1/1
光耦 I/Os	3/3
RS232	2
工作条件/尺寸	
工作温度	0 °C to 35 °C
功耗	max. <36 W @ 12 VDC, typ. <18 W @ 12 VDC
重量	1320 g
尺寸(L × W × H in mm)	132.8 × 90 × 99 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



特性

- Gain (6 dB)



- Exposure time 1394 μ s to \approx 71 minutes
- Binning (1x2, 2x1, 2x2)
- Gamma (0.45, 0.5, 0.7)
- Three look-up tables (LUTs)
- Five storable user sets

Easy integration

The Bigeye G-1100B Cool can be easily integrated into your application, since it is GigE Vision compliant and compatible with Allied Vision's GigE SDKs. Additionally, this camera can be used with numerous third-party software solutions.

外形尺寸





应用场景

The Bigeye G-1100B Cool is the perfect choice for image acquisition with high resolution and low noise. Long exposure times with the cooled sensor produce images with outstanding image quality.

Typical applications:

- Low-noise imaging (industrial and scientific imaging)
- Image acquisition with long exposure times
- Microscopy with high resolution
- Fluorescence microscopy
- Gel electrophoresis, DNA documentation
- Non-destructive evaluation of photosensitive objects
- Astronomy