



## Bigeye G G-132 Cool

- Exposure time up to more than 4200 s
- Excellent quantum efficiency

### 基本描述

Peltier cooled CCD camera with Sony ICX285, -20 °C

The Bigeye G-132B Cool is a low noise CCD camera. It is distinguished by an outstandingly low dark current and an excellent quantum efficiency. The Bigeye G-132B Cool is designed to produce a superior image quality even at very long exposure times.

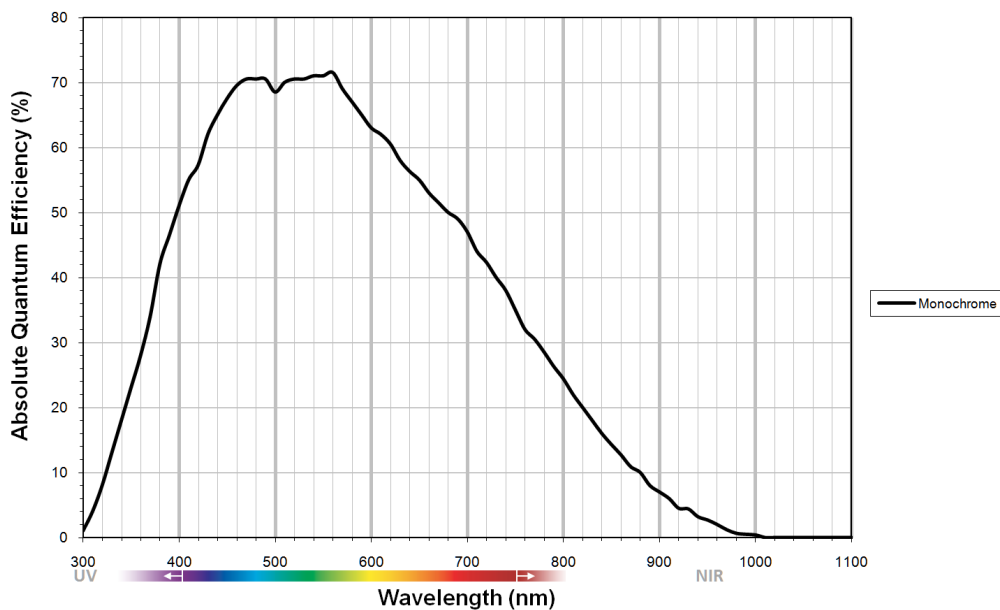
Benefits and features:

- GigE Vision, Multi-functional, user-configurable I/O interface
- Sony ICX285 EXview HAD CCD sensor, 1280 x 1024 pixels, quantum efficiency @530 nm: 72%, exposure time up to 4292 s ( $\approx$  71 min)
- Reliable operation under rough industrial conditions

### 性能参数

Bigeye G	G-132 Cool
接口	IEEE 802.3 1000baseT
分辨率	1280 (H) × 1024 (V)
传感器	Sony ICX285
传感器类型	CCD Progressive
传感器尺寸	Type 2/3
像元尺寸	6.45 $\mu$ m × 6.45 $\mu$ m
Cooling temperature	-20 °C
Dark noise	8 e-
Dark current	0.003 e-/pixel/s
Saturation capacity	13000 e-
Dynamic range	65 dB

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标准镜头接口	C-Mount, F-Mount
最大满帧帧率	12.5 fps
ADC	12 bit
缓存 (RAM)	32 MByte
输出	
Bit位数	12 bit
黑白像素格式	Mono8, Mono12, Mono12Packed
通用输入输出口(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	1270 g
尺寸(L × W × H in mm)	100.8 × 90 × 99 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



## 特性

- Gain (6 dB)
- Binning (2x1, 2x2)



- Exposure time 80077  $\mu$ s to 4294 seconds ( $\approx$  71 min)
- Three look-up tables (LUTs)
- Gamma (0.45, 0.5, 0.7)
- Five storable user sets

#### Easy integration

The Bigeye G-132B 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.



## 应用场景

The Bigeye G-132B Cool is a prime quality CCD camera with dual level Peltier cooling. It is best suited for applications with the highest demands on image quality, especially under low-light conditions.

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