Allied Vision

Bigeye
P-1100

- 11 Megapixel sensor
- Up to 60 seconds exposure time
- Outstanding signal/noise ratio

Bigeye P

Low noise CCD camera, Peltier cooling, up to 11 MP

Bigeye P-1100 搭载 ON Semi KAI-11002 传感器，在 10.8 MP 分辨率下速度可达 1.6 帧/秒。

The Bigeye is a low noise CCD camera. It satisfies even the highest expectations for excellent image quality. The peltier cooling provides a superior signal-to-noise ratio even with very long exposure times. Bigeye NIR camera versions are designed for applications which require sensitivity both in the visible spectrum and the NIR spectrum.

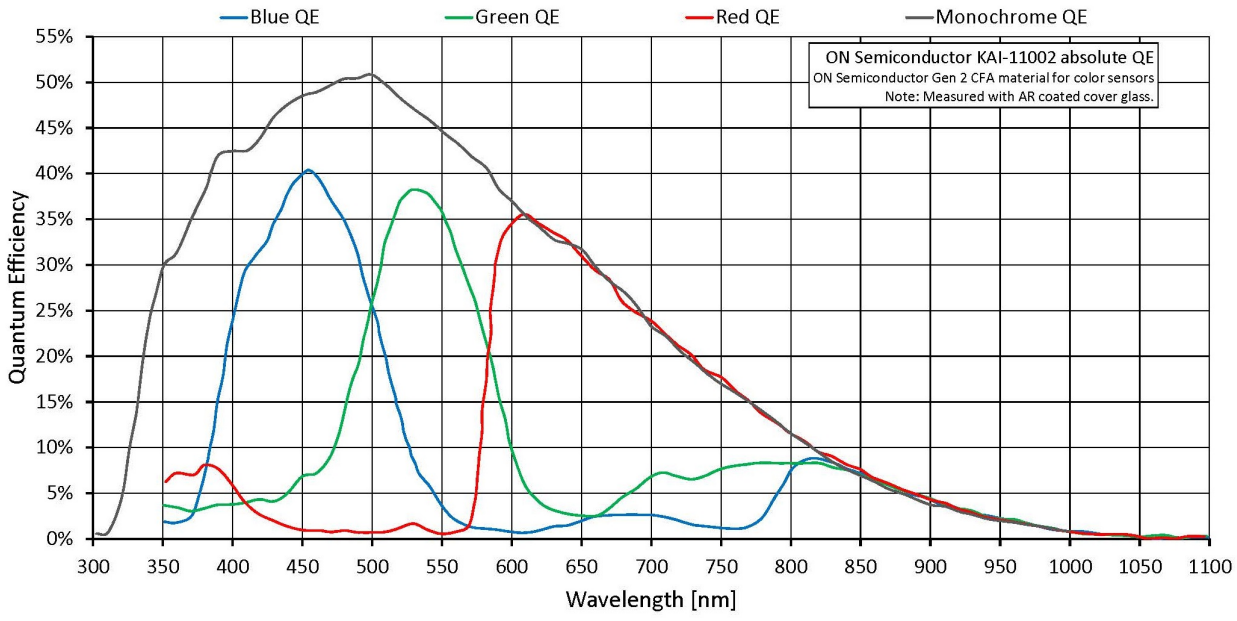
- Sensitive Sony and OnSemi sensors, up to 11 Megapixels
- Peltier cooling for long exposure times
- Superior signal/noise ratio
- Robust metal housing for industrial use
- GigE Vision

性能参数

Bigeye P-1100	
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

Bigeye P-1100	
像元尺寸	9 µm × 9 µm
标准镜头接口	F-Mount
最大满帧帧率	1.6 fps
ADC	14 Bit
输出	
Bit 位数	12 Bit
通用输入输出口 (GPIOs)	
工作条件/尺寸	
工作温度	0 °C to +40 °C
电源要求 (DC)	12 V
功耗	36 W @ 12 VDC
重量	1390 g
尺寸 (L × W × H in mm)	143 × 90 × 99 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

量子转换效率



特性

- Binning (1 x 2)
- Gain (6 dB)
- Exposure time 1 ms – 60 seconds
- Background correction
- Continuous mode (image acquisition with maximum frame rate)
- Image on demand mode (triggered image acquisition)

In combination with Allied Vision's AcquireControl software, extensive image analysis functions are available:

- BCG LUT (brightness, contrast, gamma)
- Auto contrast
- Auto brightness
- Analyze multiple regions (rectangular, circle) within the image
- Real-time statistics and histogram display

应用场景

The Bigeye P-1100B/C is the perfect choice for image acquisition with high resolution and low noise. Exposure times from 1 ms up to 60 seconds qualify this camera for a variety of applications. Short exposure times with low trigger latency ensure sharp images of moving objects. Long exposure times with the cooled sensor produce images with outstanding low noise.

- High resolution, low noise image acquisition of still and moving objects
- Low noise images with long exposure times (cooled sensor)
- Scientific imaging
- Medical imaging