Allied Vision

GiGE VISION

Bigeye

P-629

- High quantum efficiency
- Sensitivity up to 1 µm wavelength
- 6 Megapixel Full Frame sensor

Bigeye P

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

Bigeye P-629 搭载 ON Semi KAF-6303E 传感器，在 6.3 MP 分辨率下速度可达 0.67 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

接口	IEEE 802.3 1000BASE-T
分辨率	3072 (H) × 2048 (V)
传感器	ON Semi KAF-6303E
传感器类型	CCD Progressive
传感器尺寸	Type 35 mm
像元尺寸	9 µm × 9 µm
标准镜头接口	F-Mount
最大满帧帧率	0.67 fps
ADC	14 Bit

输出

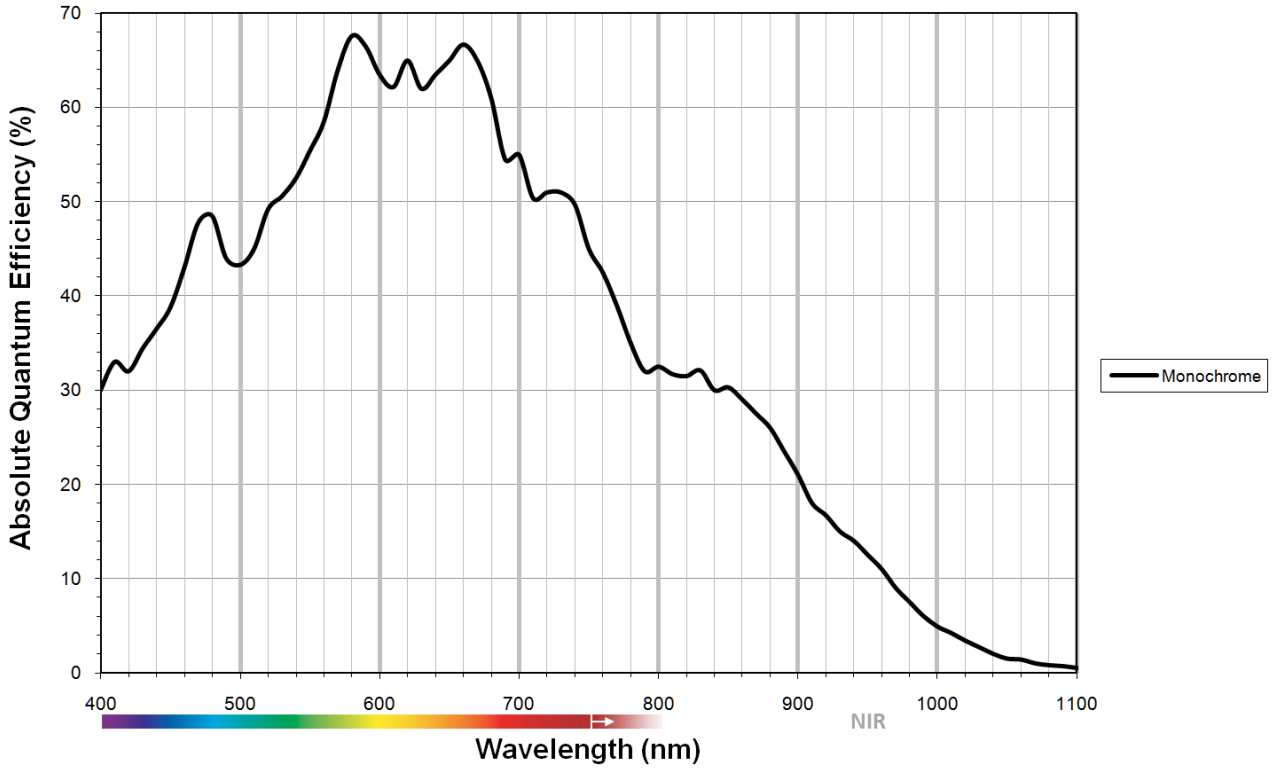
Bit 位数	14-bit
黑白像素格式	Mono8, Mono10, Mono12, Mono14, Mono16

通用输入输出口 (GPIOs)

工作条件/尺寸

工作温度	0 °C to 35 °C
电源要求 (DC)	12 V
功耗	33.6 W @ 12 VDC
重量	1460 g
尺寸 (L × W × H in mm)	141.75 × 90 × 109 (including connectors)

量子转换效率


Absolute Quantum Efficiency (%)
70
60
50
40
30
20
10
0
400
500
600
700
800
900
1000
1100
NIR
Wavelength (nm)
Monochrome

特性

- Binning (2 x 2)
- Manual gain, 6 dB
- Exposure time 50 ms to 30 minutes
- 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-629B Cool is a low noise CCD camera with an invincible signal/noise ratio. It is best suited for applications with the highest demands on image quality. The spectral range of its sensor covers both the visible and the NIR spectral range. Due to the Peltier cooling, the camera is ideal for image acquisition with long exposure times. Typical applications:

- Low-noise imaging (industrial and scientific imaging)
- Image acquisition with long exposure times
- Non-destructive evaluation of photosensitive objects