Allied Vision

GigE VISION

Bigeye

P-629 NIR

- High quantum efficiency
- Sensitivity up to 1 µm wave-length
- 6 Megapixel Full Frame sen-sor

Bigeye P

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

Bigeye P-629 NIR 搭载 ON Semi KAF-6303E 传感器，在 6.3 MP 分辨率下速度可达 0.7 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, IEEE 802.3af (PoE)
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

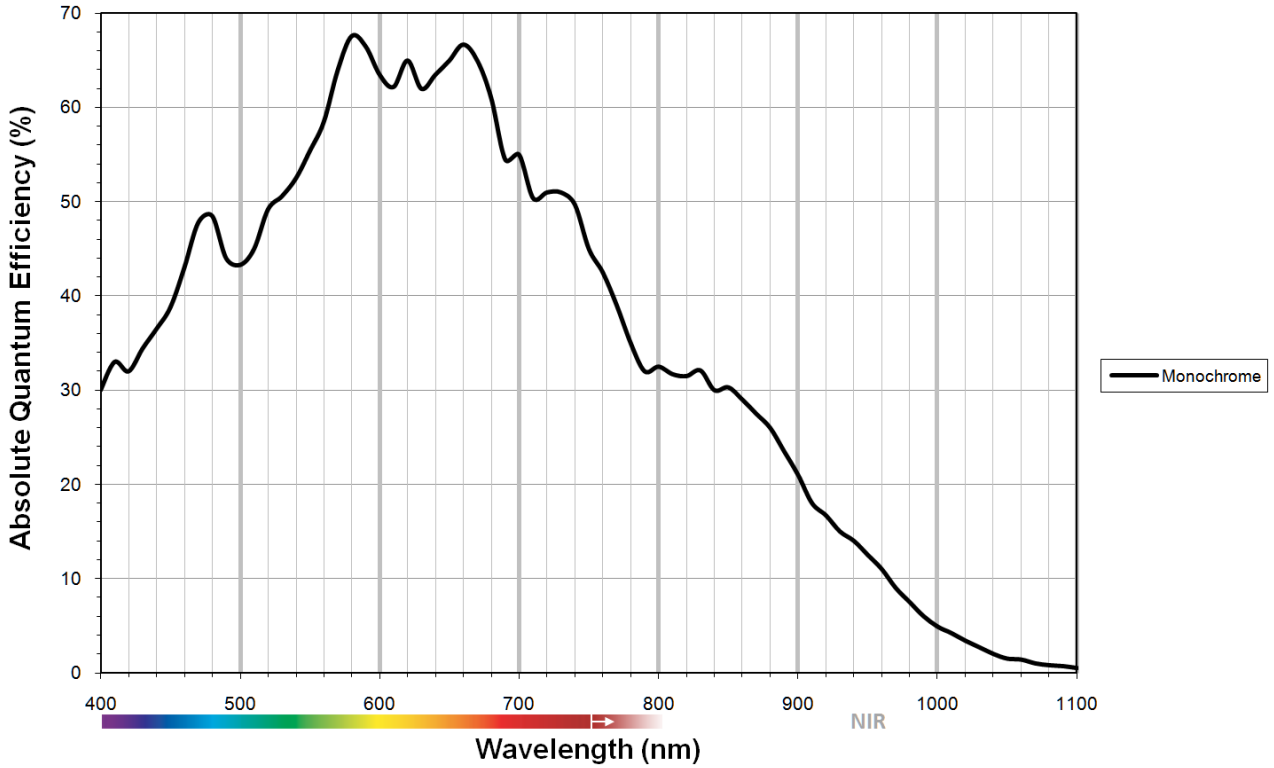
Bit 位数	14-bit
黑白像素格式	Mono8, Mono10, Mono12, Mono14, Mono16

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 NIR Cool is optimal for image acquisition both in the visible and in the NIR spectral range. For this reason, applications which require sensitivity in the visible spectrum and in the NIR spectrum can be realized with just one camera.Applications:

- Machine vision, visible and NIR spectrum
- Food inspection
- Medical and healthcare
- Microscopy
- Solar cell/wafer inspection, visible and NIR:
  - Glass inspection
  - Assembling inspection
  - Electroluminescence
  - Micro cracks detection
  - Defects
  - Efficiency