



# Bigeye P

## P-629

- High quantum efficiency
- Sensitivity up to 1  $\mu\text{m}$  wavelength
- 6 Megapixel Full Frame sensor

## Cooled 6 Megapixel Full Frame CCD camera

The Bigeye P-629B is a cooled CCD camera with a sensitive full-frame sensor. The camera is distinguished by a high quantum efficiency both in the visible and in the NIR spectrum up to 1  $\mu\text{m}$  wavelength. The sensor temperature is stabilized to +5°C, this ensures low noise and a constant dark current for high-precision image acquisition. The camera can operate with its internal long-live electromechanical shutter, or with external impulse light sources and constantly opened shutter.

Benefits and features:

- 6 Megapixel OnSemi Full Frame CCD sensor, cooled to +5°C (stabilized), high QE (quantum efficiency) in the visible and NIR range, built-in electromechanical long-live shutter
- 14-bit signal processing and output

Models:

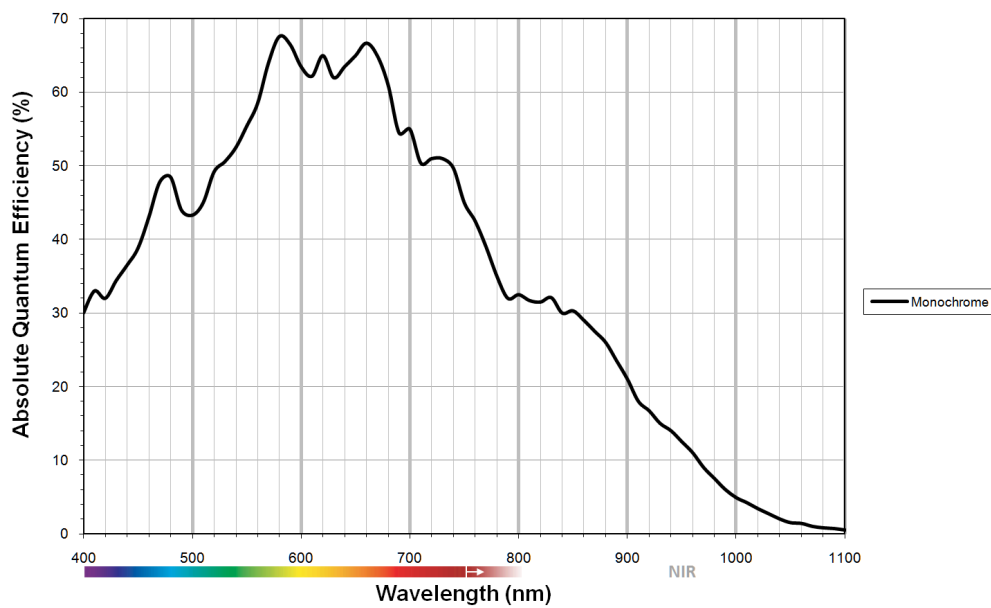
Bigeye P-629B Cool (GigE)

## 性能参数

Bigeye P	P-629
接口	IEEE 802.3 1000baseT
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

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像元尺寸	9.0 $\mu\text{m}$ $\times$ 9.0 $\mu\text{m}$
Lens mount (default)	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
工作条件/尺寸	
工作温度	0 $^{\circ}\text{C}$ to 35 $^{\circ}\text{C}$
电源要求 (DC)	12 V
功耗	33.6 W @ 12 VDC
重量	1460 g
尺寸 (L $\times$ W $\times$ H in mm)	141.75 $\times$ 90 $\times$ 109 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

## 量子转换效率



## 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