



# Bigeye P

## P-132

- Superior image quality
- Outstanding signal/noise ratio
- Peltier cooling -20°C

## 基本描述

### Low noise CCD camera with Sony ICX285, Peltier cooling -20°C

The Bigeye P-132B/C is a low noise CCD camera. It is designed to produce superior image quality with an outstanding signal/noise ratio. This camera is well suited for a wide variety of applications. The compact, robust metal housing of the cooled cameras has a hermetically sealed vacuum section. It ensures maintenance-free operation for many years even under rough conditions.

Benefits and features:

- Sony ICX285 EXview HAD CCD sensor, 12.5 fps at max. resolution, 25 fps with binning, Exposure time 100  $\mu$ s sec to 1000 seconds, Superior signal/noise ratio, designed for best image quality
- The cooled version (-20°C absolute) is ideal for long exposure times

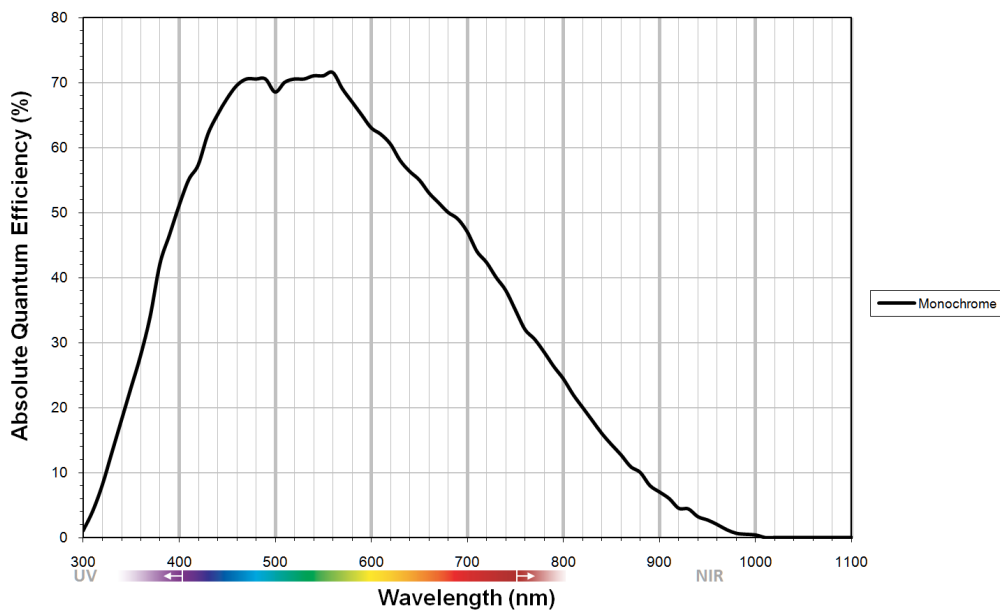
Models:

Bigeye P-132B/C Cool (mono or color, Peltier cooling -20°C absolute), GigE

## 性能参数

Bigeye P	P-132
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

Bigeye P	P-132
像元尺寸	6.45 $\mu\text{m}$ $\times$ 6.45 $\mu\text{m}$
标准镜头接口	C-Mount
最大满帧帧率	12.5 fps
ADC	14 bit
缓存 (RAM)	
	输出
Bit位数	12 bit
黑白像素格式	Mono8, Mono10, Mono12
原始像素格式	BayerGB8, BayerGB10, BayerGB12
	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	1340 g (Cool)
尺寸(L $\times$ W $\times$ H in mm)	111 $\times$ 90 $\times$ 99 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



## 特性

- Binning (1 x 2, Cool: 2 x 2)
- Gain (6 dB)
- Exposure time 100  $\mu\text{s}$  to 1000 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-132 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. Thanks to the Peltier cooling, it is ideal for image acquisition with long exposure times.

Typical applications:

- Low noise imaging (industrial and scientific imaging)
- Image acquisition with long exposure times (Peltier cooled version)
- Microscopy (low light)
- Non-destructive evaluation of photosensitive objects