



Bigeye P

P-132

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

Description

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 μ 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

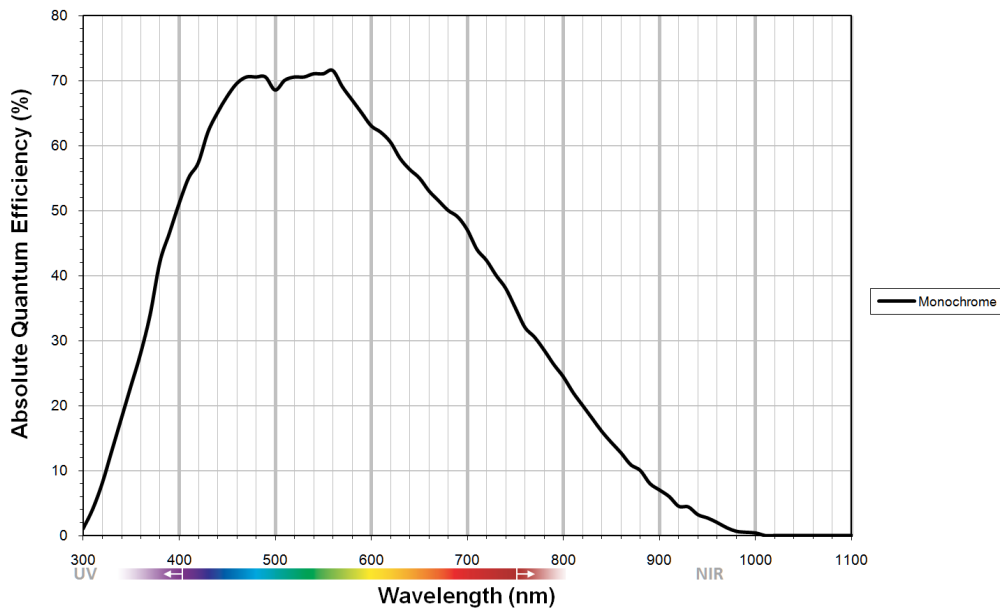
Models:

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

Specifications

Bigeye P	P-132
インターフェイス	IEEE 802.3 1000baseT
解像度	1280 (H) × 1024 (V)
センサー	Sony ICX285
Sensor type	CCD Progressive
センサーサイズ	Type 2/3

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ピクセルサイズ	6.45 μm \times 6.45 μm
レンズマウント (標準搭載)	C-Mount
フレームレート (フル解像度)	12.5 fps
ADC	14 bit
Image buffer (RAM)	
	Output
Bit depth	12 bit
ビデオフォーマット(Mono)	Mono8, Mono10, Mono12
ビデオフォーマット(Raw)	BayerGB8, BayerGB10, BayerGB12
	Operating conditions/dimensions
Operating temperature	0 $^{\circ}\text{C}$ to +35 $^{\circ}\text{C}$
Power requirements (DC)	12 V
消費電力	33.6 W @ 12 VDC
Mass	1340 g (Cool)
Body dimensions (L \times W \times H in mm)	111 \times 90 \times 99 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



Features

- Binning (1 x 2, Cool: 2 x 2)
- Gain (6 dB)
- Exposure time 100 μs 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



Applications

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