



Bigeye P

P-132

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

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 µs 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:

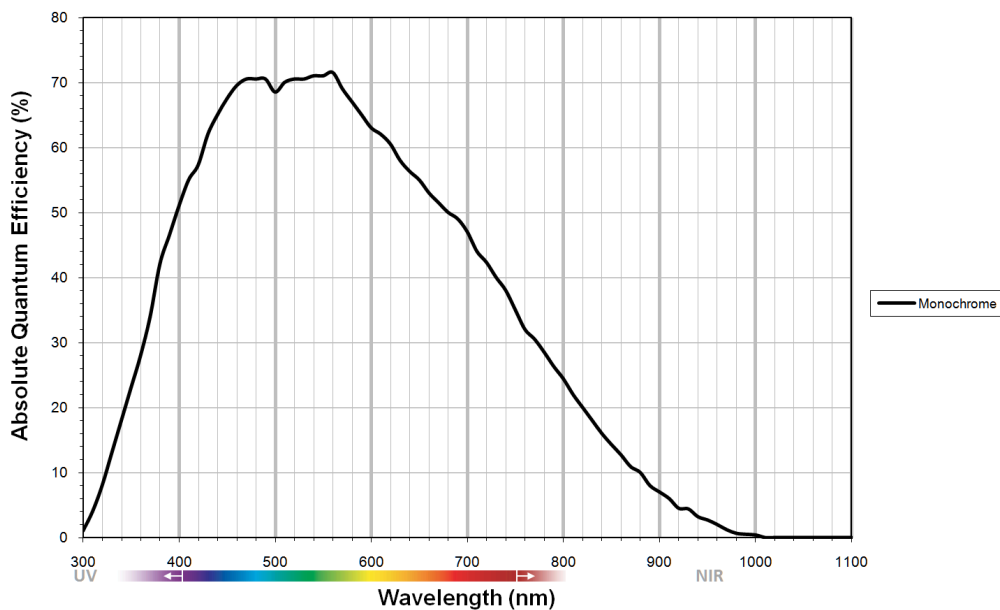
Bigeye P-132B/C Cool (mono or color, Peltier cooling -20°C absolute), GigE

Specifications

Bigeye P	P-132
Interface	IEEE 802.3 1000baseT
Resolution	1280 (H) × 1024 (V)
Sensor	Sony ICX285
Sensor type	CCD Progressive
Sensor size	Type 2/3
Pixel size	6.45 µm × 6.45 µm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	12.5 fps

Bigeye P	P-132
ADC	14 Bit
Output	
Bit depth	12 Bit
Monochrome pixel formats	Mono8, Mono10, Mono12
Raw pixel formats	BayerGB8, BayerGB10, BayerGB12
Operating conditions/dimensions	
Operating temperature	0 °C to +35 °C
Power requirements (DC)	12 V
Power consumption	33.6 W @ 12 VDC
Mass	1340 g (Cool)
Body dimensions (L × W × H in mm)	111 × 90 × 99 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

Quantum efficiency



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