ADEPT TURNKEY

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Bigeye
P-132

bigeye

GiGE VISION

Description

Low noise CCD camera with 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.
With an exposure time range from 100 microseconds to 1000 seconds, 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.

- 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
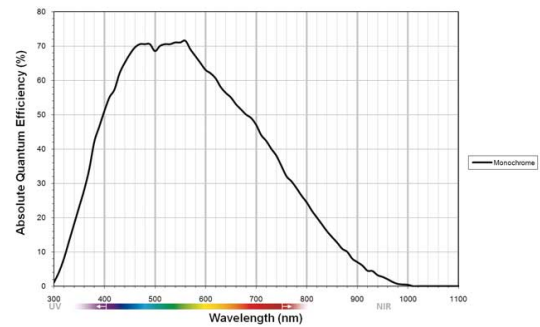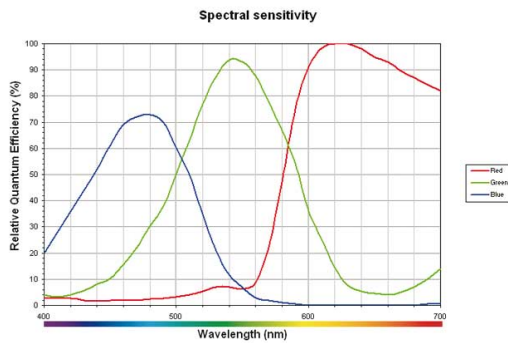- The cooled version (-20°C absolute) is ideal for long exposure times

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

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Specifications

Bigeye	P-132
Interface	IEEE 802.3 1000baseT
Resolution	1280 x 1024
Sensor	Sony ICX285
Sensor type	CCD Progressive
Sensor size	Type 2/3
Cell size	6.45 µm
Lens mount	C-Mount
Max frame rate at full resolution	12.5 fps
A/D	14 bit
Output	
Bit depth	12 bit
Mono modes	Mono8, Mono10, Mono12
Raw modes	BayerGB8, BayerGB10, BayerGB12
Operating conditions/Dimensions	
Operating temperature	0 °C … 35 °C
Power requirements (DC)	12 V
Power consumption (12 V)	33.6 W
Mass	1340 g (Cool)
Body Dimensions (L x W x H in mm)	111 x 90 x 99 incl. connectors, w/o lens
Regulations	CE, RoHS (2002/95/EC)

Download technical drawing (click here)

Smart 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 AVT'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