



# Bigeye P-132

**GiGE** VISION **Camera** Link

## 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  $\mu$ 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
- Options:
  - GigE (standard) or Camera Link interface

### Models:

Bigeye P-132B (mono, no cooling), GigE

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

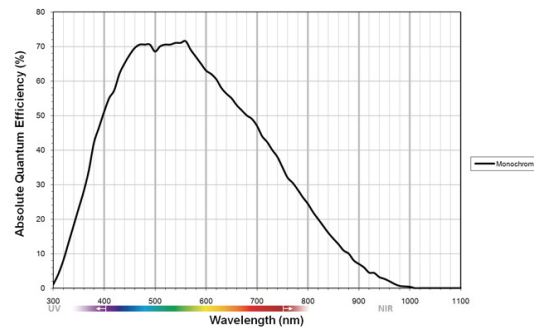
Bigeye CL-132B (mono, no cooling), Camera Link

Bigeye CL-132B/C Cool (mono or color, peltier cooling -20°C absolute), Camera Link

## Specifications

<b>Bigeye</b>		<b>P-132</b>	
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>Resolution</b>	1280 x 1024		
<b>Sensor</b>	Sony ICX285		
<b>Sensor type</b>	CCD Progressive		
<b>Sensor size</b>	Type 2/3		
<b>Cell size</b>	6.45 µm		
<b>Lens mount</b>	C-Mount		
<b>Max frame rate at full resolution</b>	12 fps		
<b>A/D</b>	14 bit		
<b>Output</b>			
<b>Bit depth</b>	12 bit		
<b>Operating conditions/Dimensions</b>			
<b>Operating temperature</b>	0 °C ... 35 °C		
<b>Power requirements (DC)</b>	12 V		
<b>Power consumption (12 V)</b>	33.6 W		
<b>Mass</b>	1410 g (Cool)		
<b>Body Dimensions (L x W x H in mm)</b>	111 x 90 x 99 incl. connectors, w/o lens		
<b>Regulations</b>	CE, RoHS (2002/95/EC)		

[Download technical drawing \(click here\)](#)



## Smart features

- Binning (1 x 2)
- Gain (6 dB)
- Exposure time 100  $\mu$ s to 1000 seconds
- 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. The peltier cooled version 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