



Bigeye P

P-132 NIR

- Superior image quality
- Enhanced NIR sensitivity
- Peltier cooling -20°C

Description

NIR optimized camera with Sony ICX285, Peltier cooling -20°C

The Bigeye P-132B NIR Cool is distinguished by high performance both in the visible spectrum and the NIR spectrum; its ICX285 CCD sensor is modified for enhanced NIR sensitivity. The compact, robust metal housing 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, enhanced NIR sensitivity
- Peltier cooling to -20° Celsius absolute
- 12.5 fps at max. resolution, 25 fps with binning
- Exposure time 100 µs sec to 1000 seconds
- Superior signal-to-noise ratio

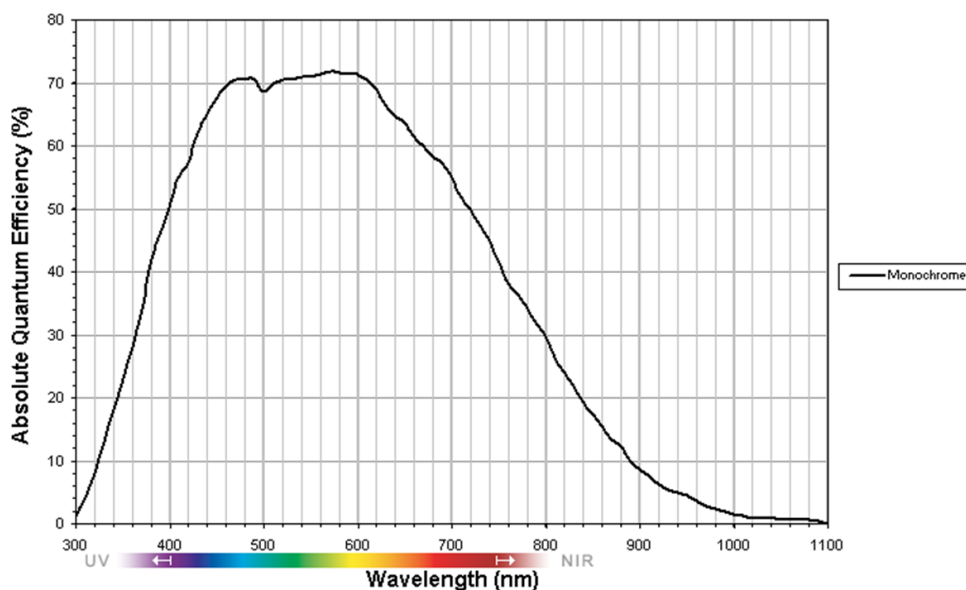
Models:

Bigeye P-132B NIR Cool (GigE)

Specifications

Bigeye P	P-132 NIR
Interface	IEEE 802.3 1000baseT
Resolution	1280 (H) × 1024 (V)
Sensor	Sony ICX285
Sensor type	CCD Progressive
Sensor size	Type 2/3

Bigeye P	P-132 NIR
Pixel size	6.45 μm \times 6.45 μm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	12.5 fps
ADC	14 bit
Image buffer (RAM)	
Output	
Bit depth	12 bit
Monochrome pixel formats	Mono8, Mono10, Mono12
Raw pixel formats	BayerGB8, BayerGB10, BayerGB12
Operating conditions/dimensions	
Operating temperature	0 $^{\circ}\text{C}$ to +35 $^{\circ}\text{C}$
Power requirements (DC)	12 V
Power consumption	33.6 W @ 12 VDC
Mass	1410 g
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 (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-132B NIR Cool is optimized for image acquisition both in the visible and in the NIR spectral range. For this reason, many applications can be realized with just one camera.

Applications:

- Machine vision, visible and NIR spectrum
- Food inspection
- Medical and healthcare
- Microscopy
- Solar cell/wafer inspection, visible and NIR:
 - Glass inspection
 - Assembling inspection
 - Electroluminescence
 - Micro cracks detection
 - Defects
 - Efficiency