



Bigeye P

P-132 NIR

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

基本描述

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 μ s sec to 1000 seconds
- Superior signal-to-noise ratio

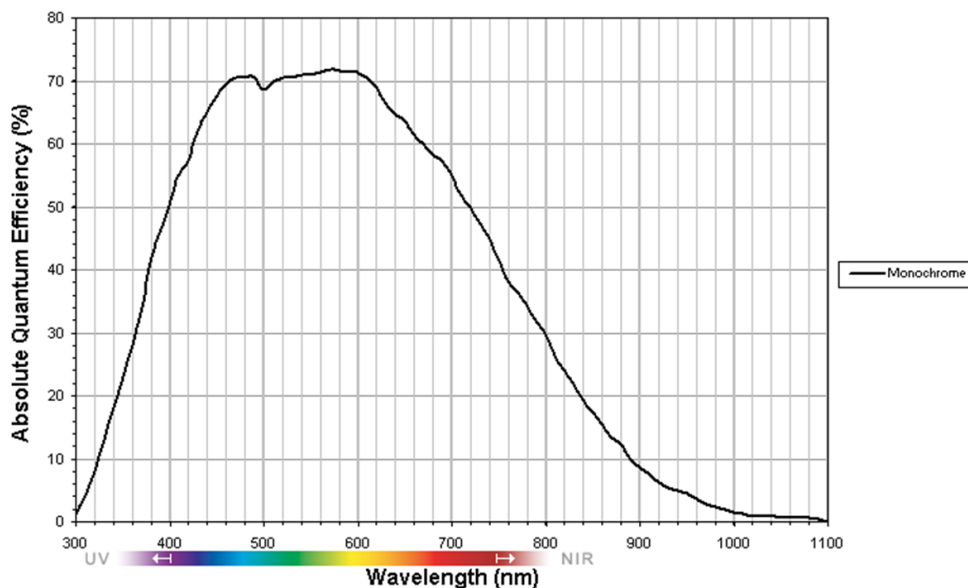
Models:

Bigeye P-132B NIR Cool (GigE)

性能参数

Bigeye P	P-132 NIR
接口	IEEE 802.3 1000baseT
分辨率	1280 (H) × 1024 (V)
传感器	Sony ICX285
传感器类型	CCD Progressive
传感器尺寸	Type 2/3

Bigeye P	P-132 NIR
像元尺寸	6.45 μm \times 6.45 μm
标准镜头接口	C-Mount
最大满帧帧率	12.5 fps
ADC	14 bit
缓存 (RAM)	
	输出
Bit位数	12 bit
黑白像素格式	Mono8, Mono10, Mono12
原始像素格式	BayerGB8, BayerGB10, BayerGB12
	工作条件/尺寸
工作温度	0 $^{\circ}\text{C}$ to +35 $^{\circ}\text{C}$
电源要求 (DC)	12 V
功耗	33.6 W @ 12 VDC
重量	1410 g
尺寸(L \times W \times H in mm)	111 \times 90 \times 99 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



特性

- 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



应用场景

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