



Bigeye P

P-1100

- 11 Megapixel sensor
- Up to 60 seconds exposure time
- Outstanding signal/noise ratio

11 Megapixel CCD camera, cooled ON Semiconductor 35 mm sensor

The Bigeye P-1100B, P-1100C is a high-resolution cooled CCD camera. It includes a sensitive 35 mm ON Semiconductor sensor. Due to the cooling to 0°C, this camera features high-resolution imaging with outstanding signal-to-noise ratio.

Benefits and features:

- 11 Megapixel OnSemi CCD sensor with anti-blooming circuit, 1.6 fps / 3.2 fps with binning, Peltier cooled (0°C absolute), excellent dynamic range, 1 ms up to 60 seconds exposure time

Models:

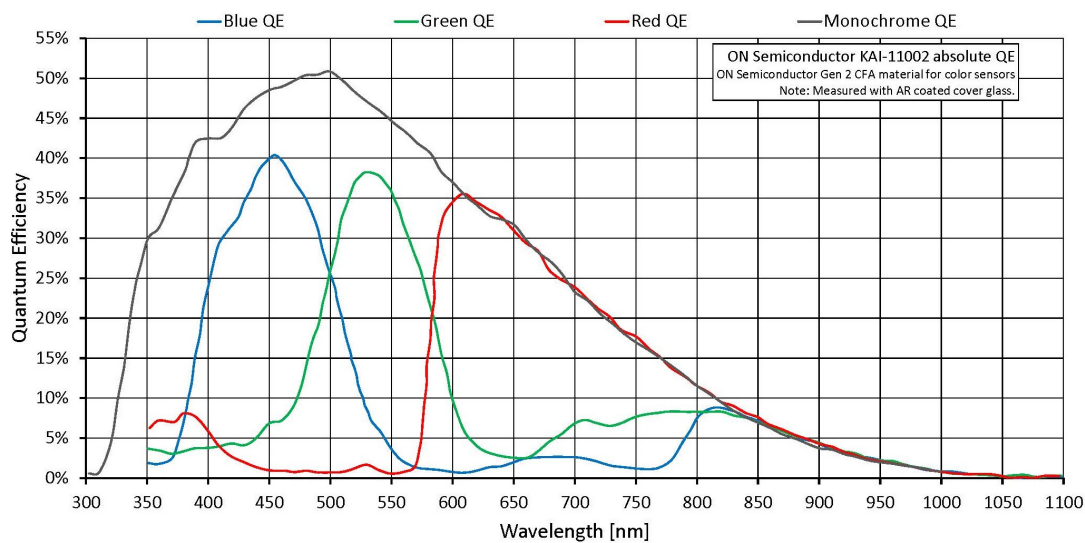
Bigeye P-1100B Cool (Monochrome), GigE
Bigeye P-1100C Cool (Color), GigE

Specifications

Bigeye P	P-1100
Interface	IEEE 802.3 1000baseT
Resolution	4024 (H) × 2680 (V)
Sensor	ON Semi KAI-11002
Sensor type	CCD Progressive
Sensor size	Type 35 mm
Pixel size	9 μm × 9 μm
Lens mount (default)	F-Mount
Max. frame rate at full resolution	1.6 fps

Bigeye P	P-1100
ADC	14 Bit
Output	
Bit depth	12 Bit
Operating conditions/dimensions	
Operating temperature	0 °C to +40 °C
Power requirements (DC)	12 V
Power consumption	36 W @ 12 VDC
Mass	1390 g
Body dimensions (L × W × H in mm)	143 × 90 × 99 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

Quantum efficiency



Features

- Binning (1 x 2)
- Gain (6 dB)
- Exposure time 1 ms – 60 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-1100B/C is the perfect choice for image acquisition with high resolution and low noise. Exposure times from 1 ms up to 60 seconds qualify this camera for a variety of applications. Short exposure times with low trigger latency ensure sharp images of moving objects. Long exposure times with the cooled sensor produce images with outstanding low noise.

- High resolution, low noise image acquisition of still and moving objects
- Low noise images with long exposure times (cooled sensor)
- Scientific imaging
- Medical imaging