Description

11 Megapixel CCD camera, cooled Kodak 35 mm sensor

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

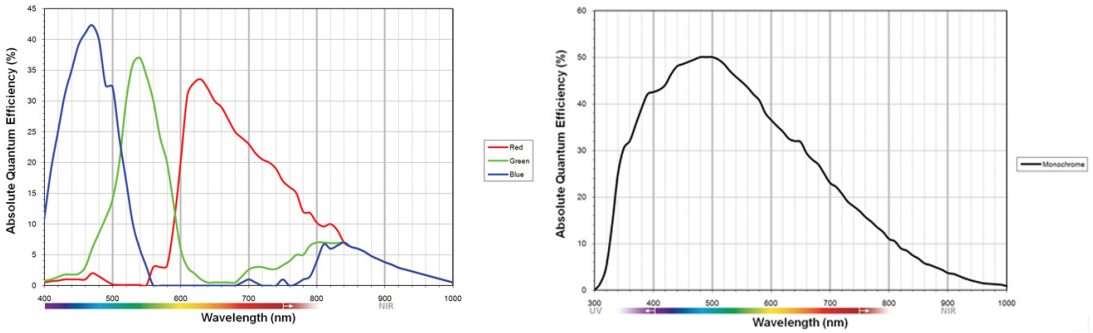
- 11 Megapixel Kodak CCD sensor with anti-blooming circuit
- 1.6 fps / 3.2 fps with binning
- Peltier cooled (0°C absolute)
- Excellent dynamic range
- 1 ms up to 60 seconds exposure time
- Options:
  - GigE (standard) or Camera Link interface

Models:
Bigeye P-1100B Cool (Monochrome), GigE
Bigeye P-1100C Cool (Color), GigE
Bigeye CL-1100B Cool (Monochrome), Camera Link
Bigeye CL-1100C Cool (Color), Camera Link

Specifications

Bigeye	P-1100
Interface	IEEE 802.3 1000baseT
Resolution	4024 x 2680
Sensor	Kodak KAI-11002
Sensor type	CCD Progressive
Sensor size	Type 35 mm
Cell size	9 µm
Lens mount	F-Mount
Max frame rate at full resolution	1 fps
A/D	14 bit
	Output
Bit depth	12 bit
	Operating conditions/Dimensions
Operating temperature	0 °C ... 40 °C
Power requirements (DC)	12 V
Power consumption (12 V)	36 W
Mass	1450 g
Body Dimensions (L x W x H in mm)	143 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)
- Gain (6 dB)
- Exposure time 1 ms – 60 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
- ... and more

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