



Description

11 Megapixel CCD camera, cooled Kodak 35 mm sensor

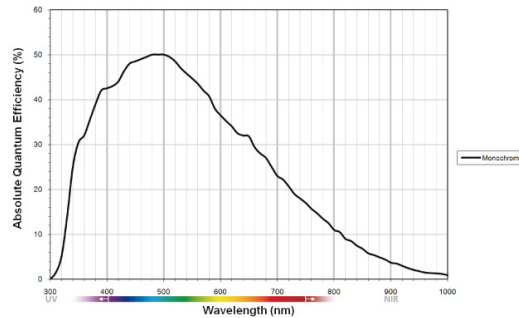
The Bigeye G-1100B Cool is a high-resolution cooled CCD camera. It includes a sensitive 35 mm Kodak sensor. Due to the cooling to 0 °C, this camera features high-resolution imaging with outstanding signal-to-noise ratio.

- Truesense (Kodak) KAI-11002 sensor, 4024 x 2680 pixels
- Quantum efficiency @530 nm: 59%
- Peltier cooled to 0 °C
- Exposure time up to 4292 s (\approx 71 min)
- Multi-functional, user-configurable I/O interface
- GigE Vision
- Reliable operation under rough industrial conditions

Specifications

Bigeye		G-1100 Cool	
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 μ m	
Cooling temperature		0 °C	
Dark noise		40 e-	
Dark current		0.010 e-/pixel/s	
Saturation capacity		54000 e-	
Dynamic range		63 dB	
Lens mount		F-Mount	
Max frame rate at full resolution		1.58 fps	
A/D		14 bit	
On-board FIFO		32 MB	
Output			
Bit depth		12 bit	
Mono modes		Mono8, Mono12, Mono12Packed	
General purpose inputs/outputs (GPIOs)			
TTL I/Os		1/1	
Opto-coupled I/Os		3/3	
RS-232		2	
Operating conditions/Dimensions			
Operating temperature		0 °C ... 35 °C	
Power consumption (12 V)		max. <36 W, typ. <18 W	
Mass		1320 g	
Body Dimensions (L x W x H in mm)		132.8 x 90 x 99 incl. connectors, w/o lens	
Regulations		CE, RoHS (2002/95/EC)	

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



Smart features

- Gain (6 dB)
- Exposure time 1394 μ s to \approx 71 minutes
- Binning (1x2, 2x1, 2x2)
- Gamma (0.45, 0.5, 0.7)
- Three look-up tables (LUTs)
- Five storable user sets

Easy integration

The Bigeye G-1100B Cool can be easily integrated into your application, since it is GigE Vision compliant and compatible with AVT's GigE SDKs. Additionally, this camera can be used with numerous third-party software solutions.

Applications

The Bigeye G-1100B Cool is the perfect choice for image acquisition with high resolution and low noise. Long exposure times with the cooled sensor produce images with outstanding image quality.

Typical applications:

- Low-noise imaging (industrial and scientific imaging)
- Image acquisition with long exposure times
- Microscopy with high resolution
- Fluorescence microscopy
- Gel electrophoresis, DNA documentation
- Non-destructive evaluation of photosensitive objects
- Astronomy