

Bigeye. Keep cool.



Bigeye

- Dual-level Peltier cooling
- Low-noise imaging with very long exposure times
- Versions with optimized NIR sensitivity available
- Comprehensive I/O functionality

Bigeye L x W x H = 101-133 x 90 x 99-109 mm incl. connectors, w/o tripod and lens. Mass 1250-1390 g

Model	Interface	Resolution	MPixels	Frame rate	Sensortype	Sensor	Cell size	A/D
G-132B Cool	GigE	1280 x 1024	1.3	12.5 fps	2/3 CCD	Sony ICX285	6.45 μm	12 bits
G-132B NIR Cool	GigE	1280 x 1024	1.3	12.5 fps	2/3 CCD	Sony ICX285	6.45 μm	12 bits
G-283B Cool	GigE	1928 x 1452	2.8	5.7 fps	2/3 CCD	Sony ICX674	4.54 μm	14 bits
G-629B Cool	GigE	3072 x 2048	6	0.67 fps	35 mm CCD	Truesense KAF-6303E	9.0 μm	14 bits
G-629B NIR Cool	GigE	3072 x 2048	6	0.67 fps	35 mm CCD	Truesense KAF-6303E	9.0 μm	14 bits
G-1100B Cool	GigE	4024 x 2680	11	1.58 fps	35 mm CCD	Truesense KAI-11002	9.0 μm	14 bits

Bigeye Cameras

The Bigeye is a prime quality low noise CCD camera. It satisfies even the highest expectations for excellent image quality. The Peltier cooling provides for an excellent signal-to-noise-ratio even with very long exposure times. Bigeye cameras are ideal for very demanding applications, like low light microscopy or non-destructive evaluation of photosensitive objects.

Bigeye NIR Cameras

The spectral ranges of Bigeye NIR cameras are optimized for both the visible spectrum and the NIR spectrum. They allow to realize demanding applications with just one camera.

Peltier Cooling

Cooling the sensor to a stabilized temperature results in a lower dark current and thus an improved image quality.

- G-132B (NIR) Cool: -20 °C
- G-283B Cool: -10 °C
- G-629B (NIR): +5 °C
- G-1100B Cool: 0 °C

Smart Features

- Gain
- Exposure time > 60 minutes
- Binning
- Three LUTs
- Gamma
- Five storable user sets

Operating Conditions

Power requirements	DC 12 V via Mini D Ribbon interface
Power consumption	Typ. <18 W, max. 37 W (@ 12 V DC)
Operating temperature	0 ... +35 °C ambient temperature
Storage temperature	-30 ... +70 °C ambient temperature
Regulations	CE, RoHS (2011/65/EU)

