



Bigeye G G-629 Cool

- 6 Megapixels resolution
- Exposure time up to more than 4200 s

Cooled 6 Megapixel full frame CCD camera

The Bigeye G-629B Cool is a cooled CCD camera with 6 Megapixels resolution and a sensitive full frame sensor. This camera is optimal for applications with low-light conditions requiring long exposure times. The camera can operate with its internal long life electromechanical shutter or with external impulse light sources and constantly opened shutter.

Benefits and features:

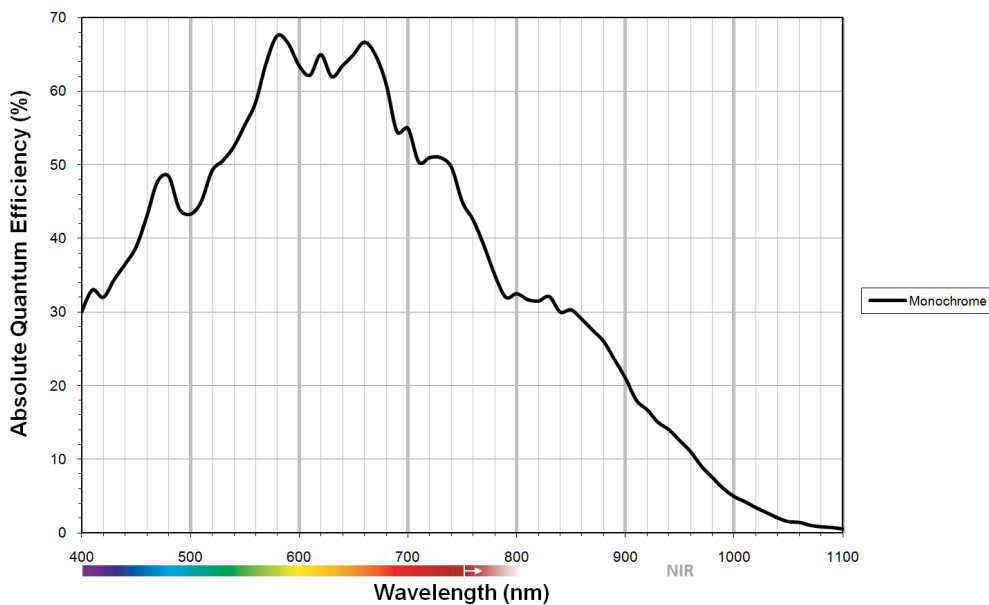
- GigE Vision, multi-functional, user-configurable I/O interface
- ON Semi KAF-6303E sensor, 3072 x 2048 pixels, cooled to +5 °C (stabilized), quantum efficiency at 530 nm: 49%, exposure time up to 4292 s (\approx 71 min)
- Reliable operation under rough industrial conditions

Specifications

Bigeye G	G-629 Cool
インターフェイス	IEEE 802.3 1000baseT
解像度	3072 (H) × 2048 (V)
センサー	ON Semi KAF-6303E
Sensor type	CCD Progressive
センサーサイズ	Type 35 mm
ピクセルサイズ	9.0 μ m × 9.0 μ m
Lens mount (default)	F-Mount
フレームレート (フル解像度)	0.67 fps
ADC	14 Bit
Image buffer (RAM)	32 MByte

Bigeye G	G-629 Cool
	撮影性能
Cooling temperature	+5 °C
Dark current	0.008 e-/pixel/s
ダークノイズ	21 e-
飽和電荷量	56000 e-
ダイナミックレンジ	69 dB
	Output
Bit depth	14 Bit
ビデオフォーマット(Mono)	Mono8, Mono12, Mono12Packed, Mono14
	General purpose inputs/outputs (GPIOs)
TTL I/Os	1/1
Opto-isolated I/Os	3/3
RS232	2
	Operating conditions/dimensions
Operating temperature	0 °C to 35 °C
消費電力	max. <37.2 W at 12 VDC, typ. <18 W at 12 VDC
Mass	1390 g
Body dimensions (L × W × H in mm)	131.55 × 90 × 109 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

Quantum efficiency





Features

- Gain (6 dB)
- Exposure time 50688 μ s to \approx 71 minutes
- Binning (2x1, 2x2)
- Gamma (0.45, 0.5, 0.7)
- Three look-up tables (LUTs)
- Five storable user sets

Easy integration

The Bigeye G-629B Cool can be easily integrated into your application, since it is GigE Vision compliant and compatible with Allied Vision's GigE SDKs. Additionally, this camera can be used with numerous third-party software solutions.



Applications

The Bigeye G-629B Cool is a low-noise CCD camera with a very high dynamic range. It is best suited for applications with the highest demands on image quality. Due to the Peltier cooling, the camera is ideal for image acquisition with long exposure times.

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