



Bigeye G G-629 Cool

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

Description

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.

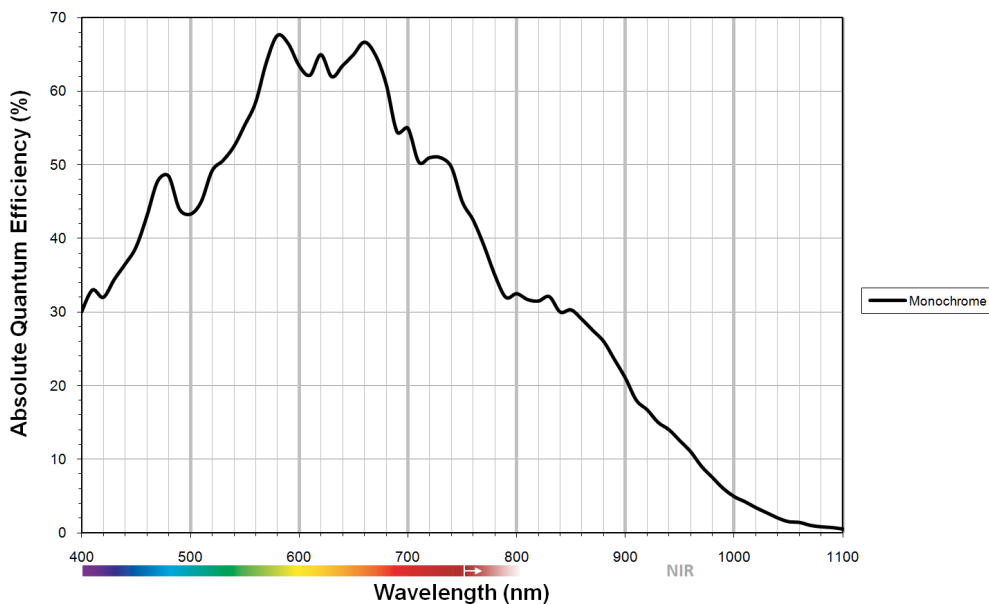
Benefits and features:

- GigE Vision, multi-functional, user-configurable I/O interface
- OnSemi KAF-6303E sensor, 3072 x 2048 pixels, cooled to +5 °C (stabilized), quantum efficiency @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
Cooling temperature	+5 °C
Temporal dark noise	21 e-
Dark current	0.008 e-/pixel/s

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Saturation capacity	56000 e-
Dynamic range	69 dB
レンズマウント (標準搭載)	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
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 @ 12 VDC, typ. <18 W @ 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)





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