



Goldeye G1

CL-032 SWIR

- Goldeye CL-032 SWIR NIR camera with InGaAs sensor, 636 × 508 pixels, Peltier cooling

Description

NIR camera with InGaAs sensor, 636 × 508 pixels, Peltier cooling

The Goldeye CL-032 NIR is an NIR (near-infrared) camera. It has a spectral response from 900 nm to 1700 nm. Its InGaAs sensor features high sensitivity, very good linearity, and a high damage threshold against intense illumination. The camera is available with Peltier cooling. The Peltier cooling is ideal for applications with long exposure times, or for exact temperature measurements.

Benefits and features:

- InGaAs sensor, spectral range 900 nm to 1700 nm (NIR, near-infrared)
- 14-bit digital processing
- Camera Link interface
- 30 fps/30 Hz
- Peltier cooling for long exposure times and exact temperature measurements
- C-Mount (Goldeye CL-32 NIR Cool)
- F-Mount (Goldeye CL-032 NIR F-Mount Cool)

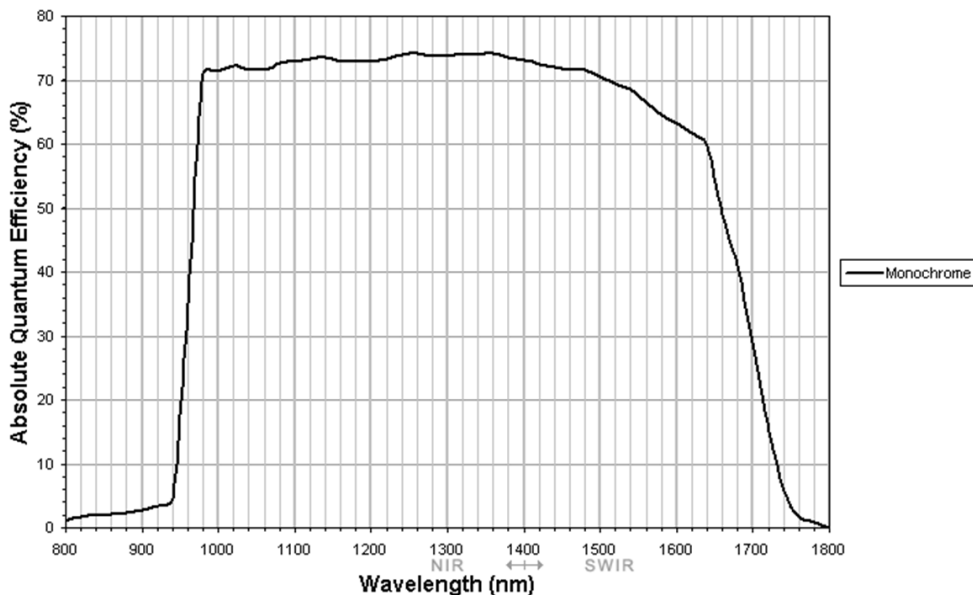
Models:

Goldeye CL-032 NIR Cool

Specifications

Goldeye G1	CL-032 SWIR
Interface	Camera Link Base
Resolution	636 (H) × 508 (V)
Sensor	InGaAs FPA 636 × 508

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Sensor type	InGaAs
Sensor size	No standard size
Pixel size	25 μm \times 25 μm
Lens mount (default)	C-Mount, F-Mount
Max. frame rate at full resolution	30 fps
ADC	0 bit
Image buffer (RAM)	
Output	
Bit depth	bit
Operating conditions/dimensions	
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



Features

- Gain, up to factor 20 at short exposure times
- Exposure time 64 μs to 1 s
- Shipped with built-in correction data sets
- Gain/offset correction (NUC / non-uniformity correction) for each pixel
- Bad pixel correction
- Background (FPN) correction
- Continuous mode (image acquisition with maximum frame rate)
- Image On Demand mode (triggered image acquisition)



In combination with Allied Vision's AcquireControl software, extensive image analysis functions are available:

- Pseudo color LUT with several color profiles
- Auto contrast
- Auto brightness
- Analyze multiple regions (rectangular, circle) within the image
- Real-time statistics and histogram display



Applications

Goldeye NIR cameras are very sensitive in the NIR spectrum, show excellent linearity, and tolerate intense illumination. They are the perfect choice for numerous NIR applications:

- Near-infrared imaging
- Thermal imaging of hot objects (in a range of 250°C to 800°C)
- Imaging spectroscopy
- Laser beam profiling
- Sorting according to plastic
- Semiconductor inspection
- Water or moisture detection
- Medical science and biology
- Vision enhancement