



# Goldeye G1

## CL-032 SWIR

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

### NIR camera with InGaAs sensor, 636 x 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

### 性能参数

|            |                      |
|------------|----------------------|
| Goldeye G1 | CL-032 SWIR          |
| 接口         | Camera Link Base     |
| 分辨率        | 636 (H) × 508 (V)    |
| 传感器        | InGaAs FPA 636 × 508 |

|                      |  |
|----------------------|--|
| Goldeye G1           | CL-032 SWIR                                |
| 传感器类型                | InGaAs                                     |
| 传感器尺寸                | No standard size                           |
| 像元尺寸                 | 25 $\mu\text{m}$ $\times$ 25 $\mu\text{m}$ |
| Lens mount (default) | C-Mount, F-Mount                           |
| 最大满帧帧率               | 30 fps                                     |

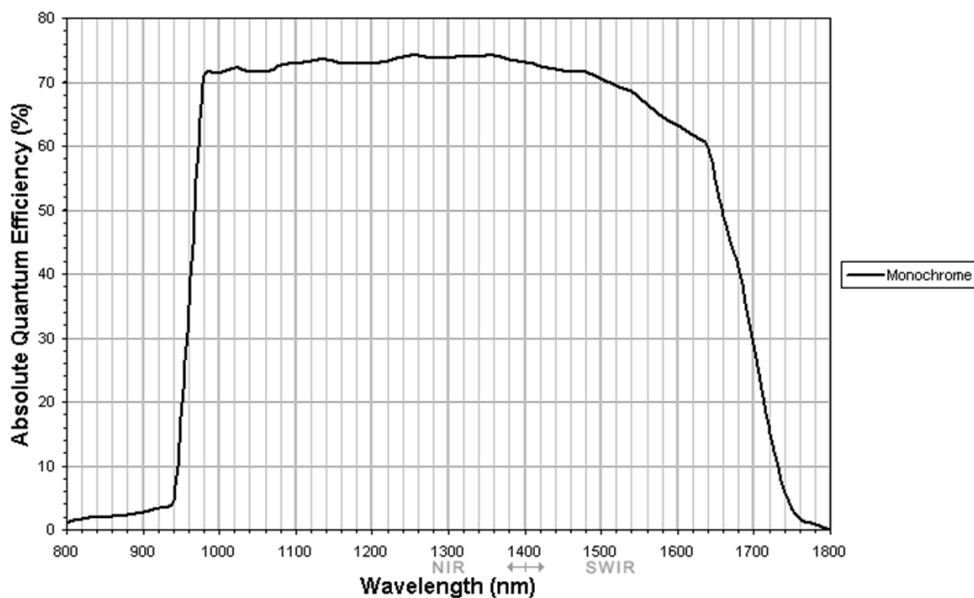
输出

工作条件/尺寸

符合规范

CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

## 量子转换效率



## 特性

- Gain, up to factor 20 at short exposure times
- Exposure time 64  $\mu\text{s}$  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



## 应用场景

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