

Goldeye

CL-008 SWIR



- Goldeye CL-008 SWIR Near-infrared camera with InGaAs sensor, 320 × 256 pixels, optional cooling

见所未见

搭载 InGaAs 传感器技术的短波红外 (SWIR) 相机

Goldeye CL-008 SWIR 搭载 InGaAs FPA 320 × 256 传感器，在 0.1 MP 分辨率下速度可达 118.0 帧/秒。

Goldeye 相机配备了 InGaAs 传感器技术，对 900-1700 nm 波段红外短波非常敏感。一些型号将波段灵敏度扩展至可见光（400nm 或 2200nm）。所有 Goldeye SWIR 相机都可以超高帧率运行，拍摄出高质量的低噪图像。此款相机是不可见光谱的工业和科技应用的理想选择。所有 Goldeye 机型均搭载 Camera Link 或 GigE Vision 接口。

The Goldeye is a short-wave infrared (SWIR) camera. It has a spectral response from 900 nm to 1700 nm. Its InGaAs sensors feature high sensitivity, very good linearity, and a high damage threshold against intense illumination. Thanks to the 14-bit processing and the numerous image correction features, Goldeye cameras produce an outstanding, low-noise image quality. The camera is also available with Peltier cooling. The Peltier cooling is beneficial especially for applications with long exposure times, or for exact temperature measurements.

- C-Mount, compatible with standard machine vision lenses
- GigE Vision, also available with Camera Link interface
- Options:
 - Peltier cooling for long exposure times and exact temperature measurements

性能参数

| | |
|----------------|--------------------------|
| 接口 | Camera Link Base |
| 分辨率 | 320 (H) × 256 (V) |
| Spectral range | 900 nm to 1700 nm (SWIR) |
| 传感器 | InGaAs FPA 320 × 256 |
| 传感器类型 | InGaAs |
| 传感器尺寸 | No standard size |
| 像元尺寸 | 30 μm × 30 μm |
| 标准镜头接口 | C-Mount |
| 最大满帧帧率 | 118 fps |

输出

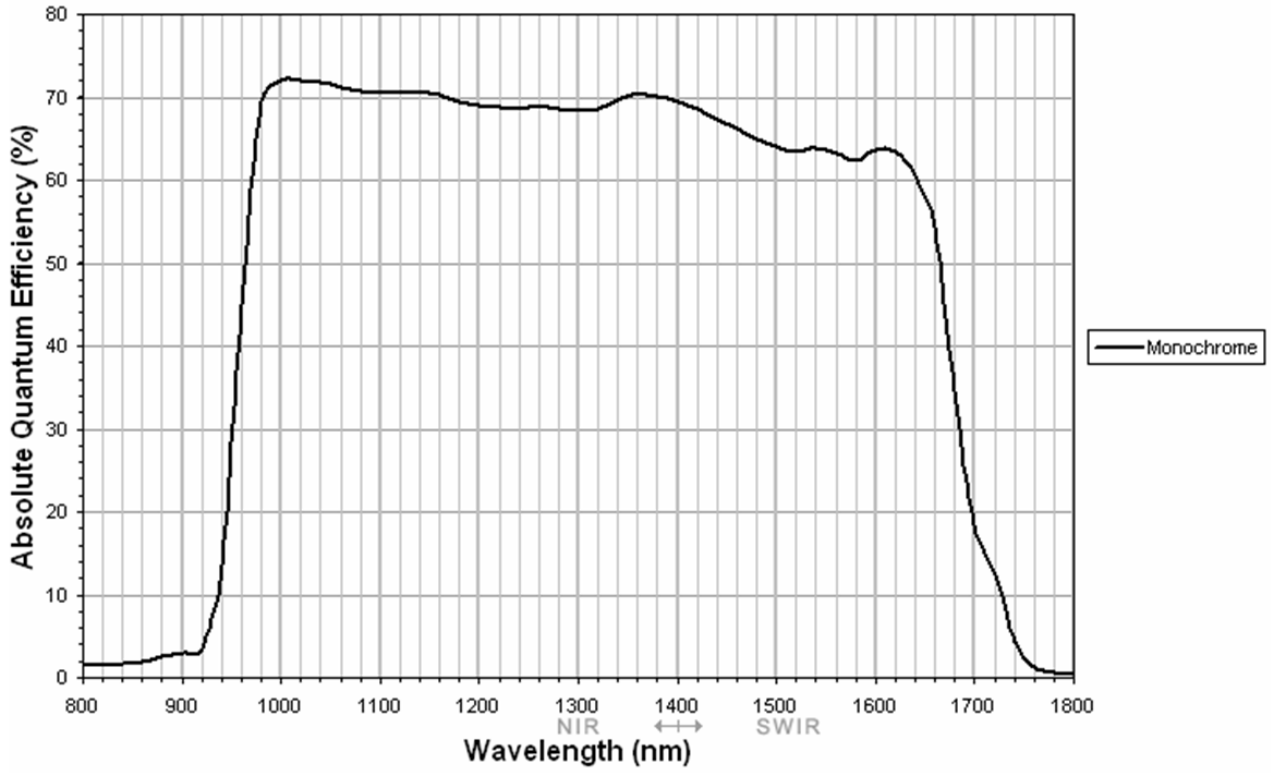
| | |
|--------|--------|
| 黑白像素格式 | 12 bit |
|--------|--------|

通用输入输出口 (GPIOs)

工作条件/尺寸

| | |
|----------------------|--------------------|
| 电源要求 (DC) | 0.4 A |
| 功耗 | + 12 V (-0% / +5%) |
| 重量 | 600 g |
| 尺寸 (L × W × H in mm) | 74 × 90 × 71 |

量子转换效率



特性

- Manual Gain, 6 dB, up to factor 20 with short exposure times
 - Exposure time 5 μ s to 100 ms (for Goldeye CL-008 NIR)
 - Exposure time 5 μ s to 1 s (for Goldeye CL-008 NIR Cool)
- 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 from 250°C to 800°C)
- Semiconductor inspection
- Water or moisture detection
- Imaging spectroscopy
- Laser beam profiling
- Plastic sorting
- Medical science and biology
- Vision enhancement