

Goldeye

CL-032 SWIR



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

见所未见

搭载 InGaAs 传感器技术的短波红外 (SWIR) 相机

Goldeye CL-032 SWIR 搭载 InGaAs FPA 636 × 508 传感器，在 0.3 MP 分辨率下速度可达 30 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

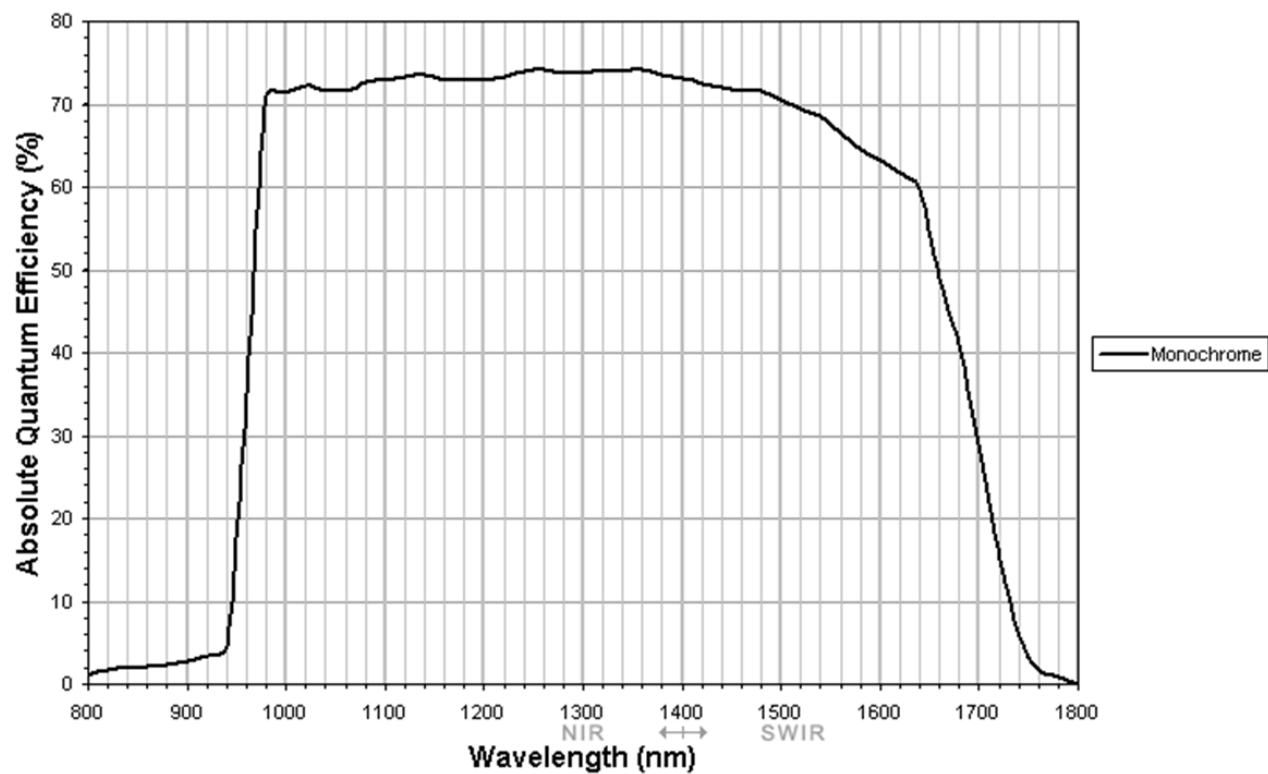
接口	Camera Link Base
分辨率	636 (H) × 508 (V)
传感器	InGaAs FPA 636 × 508
传感器类型	InGaAs
传感器尺寸	No standard size
像元尺寸	25 μm × 25 μm
标准镜头接口	C-Mount, F-Mount
最大满帧帧率	30 fps

输出

通用输入输出口 (GPIOs)

工作条件/尺寸

量子转换效率



特性

- Gain, up to factor 20 at short exposure times
- Exposure time 64 μ 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