



Goldeye G1

P-032 SWIR

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

基本描述

SWIR camera with InGaAs sensor, 636 x 508 pixels, Peltier cooling

The Goldeye P-032 is an SWIR (short-wave 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 comes standard with Peltier cooling. The Peltier cooling is ideal for applications with long exposure times, or for exact temperature measurements. The image quality benefits from numerous image preprocessing features.

Benefits and features:

- InGaAs sensor, spectral range 900 nm to 1700 nm (SWIR, short-wave infrared)
- 25 μm x 25 μm cell size, effective chip size 15.9 mm x 12.7 mm
- 14-bit digital processing
- 30 fps (30 Hz)
- Peltier cooling for long exposure times and exact temperature measurements
- GigE Vision, also available with Camera Link interface

Options:

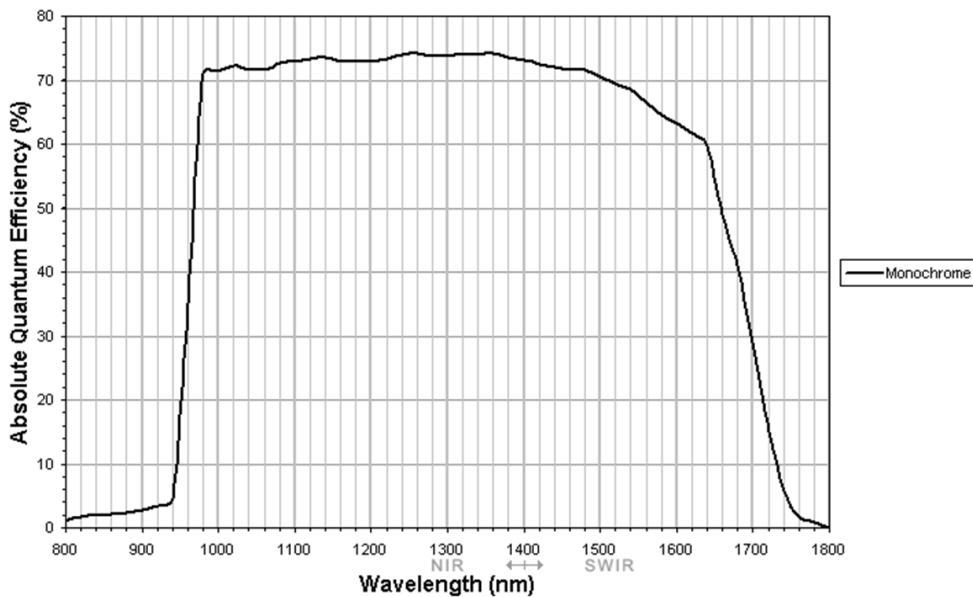
- C-Mount or F-Mount

Models:

Goldeye P-032 SWIR Cool (GigE Vision)
Goldeye CL-032 SWIR Cool (Camera Link)

性能参数

Goldeye G1	P-032 SWIR
接口	IEEE 802.3 1000baseT
分辨率	636 (H) × 508 (V)
Spectral range	SWIR, 900 nm to 1700 nm
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, M42-Mount
最大满帧帧率	30 fps
ADC	14 bit
缓存 (RAM)	
	输出
Bit位数	12 bit
黑白像素格式	Mono12
	工作条件/尺寸
工作温度	0 °C to +35 °C
电源要求 (DC)	12 V
功耗	15.6 W @ 12 VDC
重量	1110 g (C-Mount)
尺寸(L × W × H in mm)	115.8 × 90 × 99 (C-Mount)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



特性

- Switchable gain, factor 20 at short exposure times
- Exposure time 5 μ s to 1 s
- Shipped with built-in correction data sets
- Gain/offset correction (NUC / non-uniformity correction) for each pixel
- Factory adjusted 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 SWIR cameras are very sensitive in the short-wave infrared spectrum, show excellent linearity, and tolerate intense illumination. They are the perfect choice for numerous SWIR applications:

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