



Goldeye P-032 SWIR

GiGE
VISION

CAMERA
Link

Description

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.

- InGaAs sensor, spectral range 900 nm – 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:

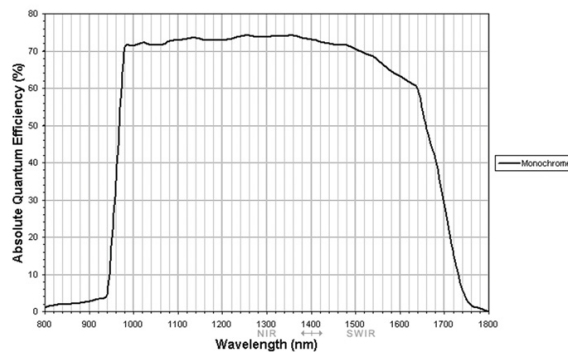
Goldeye P-032 SWIR Cool (GigE Vision)

Goldeye CL-032 SWIR Cool (Camera Link)

Specifications

Goldeye		P-032 SWIR	
Interface		IEEE 802.3 1000baseT	
Resolution		636 x 508	
Spectral range		SWIR, 900 - 1700 nm	
Sensor		InGaAs 626 x 508	
Sensor type		InGaAs	
Sensor size		No standard size	
Cell size		25 µm x 25 µm	
Lens mount		C/F-Mount	
Max frame rate at full resolution		30 fps	
A/D		14 bit	
		Output	
Bit depth		12 bit	
Mono modes		Mono12	
		Operating conditions/Dimensions	
Operating temperature		0°... +35 °C	
Power requirements (DC)		12 V	
Power consumption (12 V)		15.6 W	
Mass		1110 g (C-Mount)	
Body Dimensions (L x W x H in mm)		115.8 x 90 x 99 (C-Mount)	
Regulations		CE, RoHS (2002/95/EC)	

[Download technical drawing \(click here\)](#)



Smart features

- Switchable gain, factor 20 at short exposure times
- Exposure time 64 μ s – 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 AVT'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
- ... and more

Applications

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

