



# 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:

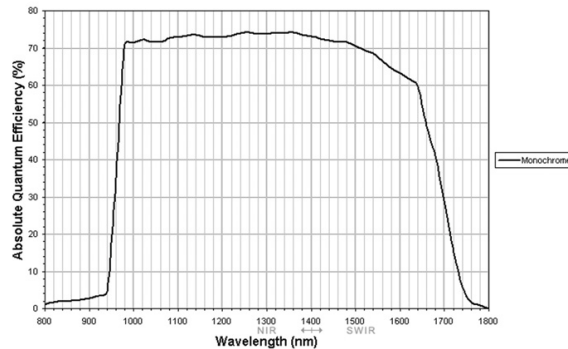
Goldeye P-032 SWIR Cool (GigE Vision)

Goldeye CL-032 SWIR Cool (Camera Link)

## Specifications

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

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



## Smart features

- Switchable gain, factor 20 at short exposure times
- Exposure time 64  $\mu$ 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

