

# pco.pixelfly™ 1.3 SWIR

the all new SWIR camera



**VIS & SWIR sensitivity**  
400 to 1700 nm

**small pixel size**  
5  $\mu\text{m}$  x 5  $\mu\text{m}$

**long exposure times**  
due to low dark current

**excellent peak QE**  
of 90 %

interface	USB 3.1 Gen 1
sensor technology	InGaAs
spectral range [nm]	400 to 1700
resolution [pixel]	1280 x 1024
sensor diagonal [mm]	8.2
pixel size [ $\mu\text{m}$ ]	5 x 5
max. frame rate @ full resolution [fps]	71.5 (12 bit)
max. pixel rate [MPixel/s]	93.7 (12 bit)
peak QE	90 % @ 1200 nm
typ. read noise <sup>1</sup> [e <sup>-</sup> ]	< 200
dark current @ sensor temperature [e <sup>-</sup> /pixel/s]	2000 @ +5 °C
max. dynamic range	680:1
shutter type	GS (Global Shutter)
sensor cooling <sup>2</sup>	peltier with forced air
dimensions H x W x L [mm]	70 x 70 x 115

<sup>1</sup> The readout noise values are given as root mean square (rms).

All values are raw data without any filtering.

<sup>2</sup> air = air forced with fan

## Extend the vision to SWIR

The pco.pixelfly™ 1.3 SWIR is a high performance machine vision camera due to its special InGaAs image sensor which is sensitive in the shortwave infrared, near infrared and visible range of the electromagnetic spectrum. It shows a favorably high sensitivity in the whole spectral range with up to 90 % in the shortwave infrared part. The small pixels enable the use of small magnification optics in microscopy and a low dark current for even longer exposure times.



**pco.**

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