

# 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 %

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

## 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.

<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



**amstechnologies**  
where technologies meet solutions

info@amstechnologies.com  
www.amstechnologies-webshop.com

**Contact us** 

**pco.**

An Excelitas Technologies Brand