

pco.pixelfly™ 1.3 SWIR

the all new SWIR camera



VIS & SWIR sensitivity
400 to 1700 nm

small pixel size
5 μm x 5 μm

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 [μm] | 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 noise¹ [e⁻] | < 200 |
| dark current @ sensor temperature [e⁻/pixel/s] | 2000 @ +5 °C |
| max. dynamic range | 680:1 |
| shutter type | GS (Global Shutter) |
| sensor cooling² | peltier with forced air |
| dimensions H x W x L [mm] | 70 x 70 x 115 |

¹ The readout noise values are given as root mean square (rms).

All values are raw data without any filtering.

² 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.