pco.edge 26 global shutter scmos camera

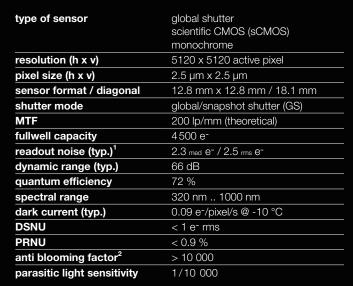






pco.edge 26

» sCMOS image sensor



camera system

| maximum frame rate @ full resolution | 6 fps |
|---|---|
| exposure / shutter time | 27 μs 60 s |
| dynamic range A/D | 12 bit |
| A/D conversion factor | 1.1 e ⁻ /DN |
| pixel data rate | 187 Mpixel/s |
| binning horizontal | x1, x2, x4 |
| binning vertical | x1, x2, x4 |
| region of interest (ROI) | horizontal: steps of 8 pixel (min. 24) vertical: steps of 2 pixel (min. 8) |
| non linearity | < 0.6 % |
| cooling method | adjustable: from - 20 °C to + 20 °C peltier with forced air (fan) and water cooling calibration setpoint: - 10 °C |
| trigger input signals | frame trigger, sequence trigger, programmable input (SMA connectors) |
| trigger output signals | exposure, busy, programmable output (SMA connectors) |
| data interface | USB 3.1 Gen 1 |
| time stamp | in image (1 µs resolution) |

¹ The readout noise values are given as median (med) and root mean square (rms) values, due to the different noise models, which can be used for evaluation. All values are raw data without any filtering.

2 Based on image sensor data sheet.



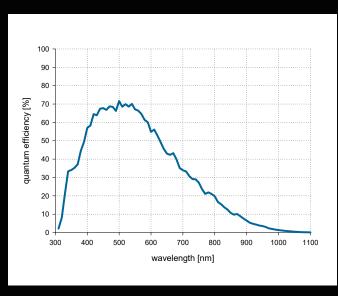
technical specifications

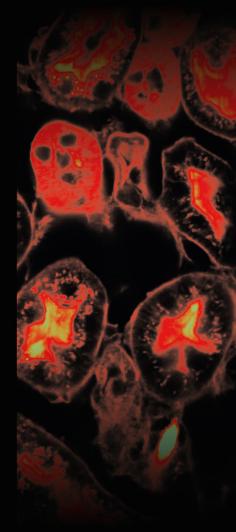
pco.edge 26

>>> general

| power delivery | power over USB 3.1 Gen 1 and power connector (24 VDC +/- 10 %) |
|---------------------------|--|
| power consumption | 22 W max. (typ. 10 W) over power connector and typ. 4.5 W over USB 3.1 Gen 1 |
| weight | 970 g |
| operating temperature | + 10 °C + 40 °C |
| operating humidity range | 10 % 80 % (non-condensing) |
| storage temperature range | - 10 °C + 60 °C |
| optical interface | F-mount, C-mount |
| maximum cable length | 5 m |
| CF / FCC certified | VAS |







frame rate table

| 5120 x 5120 | 6 fps |
|-------------|---------|
| 5120 x 1024 | 30 fps |
| 5120 x 512 | 59 fps |
| 5120 x 256 | 115 fps |
| 5120 x 128 | 216 fps |
| | |
| 1920 x 1080 | 29 fps |
| 1600 x 1200 | 26 fps |
| 1280 x 1024 | 30 fps |
| 640 x 480 | 63 fps |
| 320 x 240 | 122 fps |

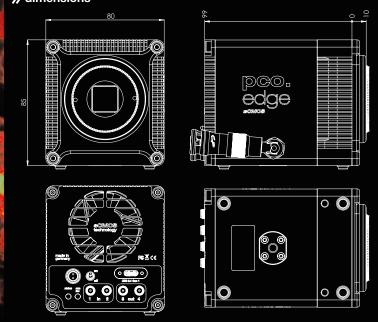
technical specifications

pco.edge 26

>> benefits

anti-vibration technology with AlphaGEL® sealed electronics for dust & dirt protection optimized airflow with 3 seperate intakes spider-less mounting with only 6.18 mm to image plane

dimensions



F-mount and C-mount lens adapter are changeable. All dimensions are given in millimeter.

>> camera view



technical specifications

pco.edge 26

>> applications

brightfield microscopy | fluorescence microscopy | digital pathology | light sheet fluorescence microscopy (LSFM) | structured illumination microscopy (SIM) | high-speed bright field ratio imaging | high throughput screening | high content screening | biochip reading | spinning disk confocal microscopy | 3D metrology | industrial quality inspection

software



With pco.camware you control all camera settings, the image acquisition and the storage of your image data. The pco.sdk is the complementary software development kit. It includes dynamic link libraries for user customization and integration on Windows-PC platforms. Drivers for popular third party software packages are also available for you.

All this items like pco.camware, pco.sdk and third party drivers, are free-to-download at www.pco.de.

>> third party integrations

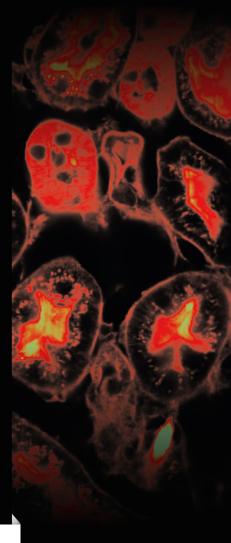












contact

pco europe +49 9441 2005 50 info@pco.de pco.de

pco america

+1 866 678 4566 info@pco-tech.com pco-tech.com

pco asia

+65 6549 7054 info@pco-imaging.com pco-imaging.com

pco china

+86 512 67634643 info@pco.cn pco.cn



for application stories please visit our website



