# pco.edge 26 global shutter scmos camera

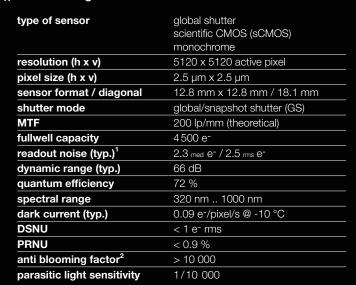






### pco.edge 26

#### » 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 <sup>-</sup> /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)	

<sup>&</sup>lt;sup>1</sup> 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.





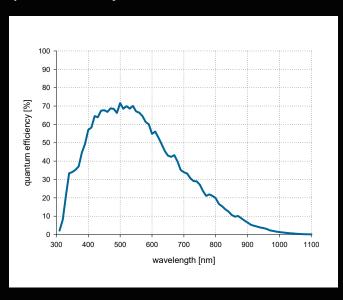
# technical specifications

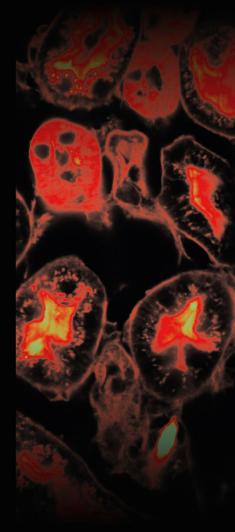
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### >>> general

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	Ves	







#### 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



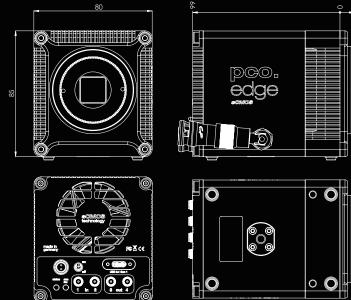
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#### >> benefits

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

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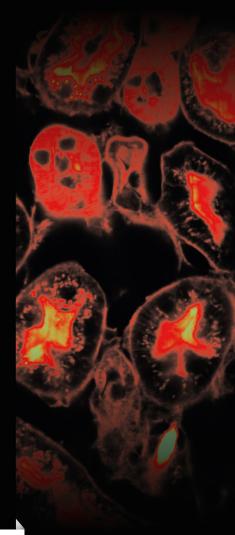
#### >> applications

brightfield microscopy | fluorescence microscopy | digital | 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.



third party integrations

LabVIEW









