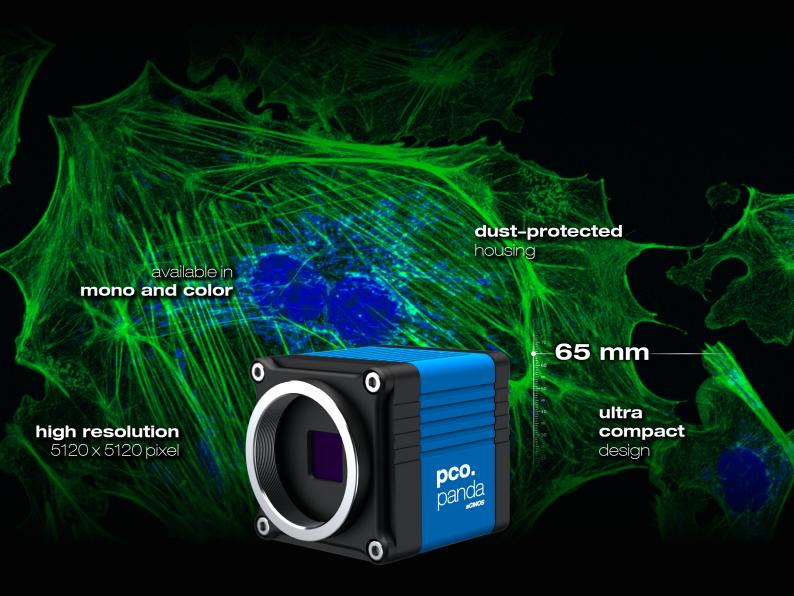
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ultra compact global shutter **sCMOS** camera



single cable solution data & power supply via USB 3.1

true charge domain global shutter



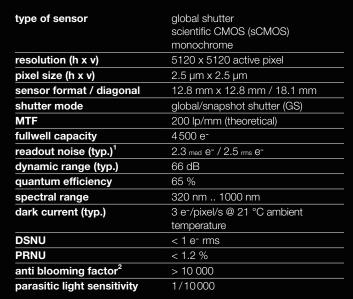


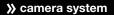


technical specifications

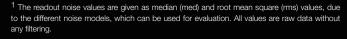
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>> sCMOS image sensor



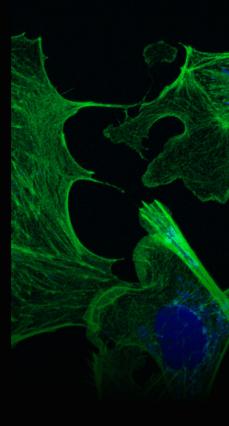


maximum frame rate @ full resolution	6 fps	
exposure / shutter time	27 μs 20 s	
dynamic range A/D	12 bit	
A/D conversion factor	1.1 e ⁻ /DN	
pixel data rate	187 Mpixel/s	
binning horizontal	x1, x2, x4	
binning vertical	x1, x2, x4	
region of interest (ROI)	horizontal: steps of 8 pixel (min. 24) vertical: steps of 2 pixel (min. 8)	
non linearity	< 0.6 %	
cooling method	passive cooled	
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)	



² Based on image sensor data sheet.



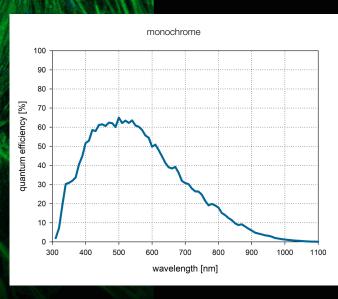


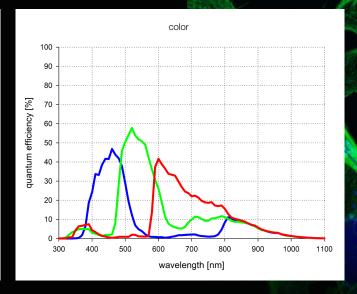
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>>> general

power delivery	power over USB 3.1 Gen 1	
power consumption	typ. 4.5 W (max. 6.0 W)	
weight	600 g	
operating temperature	+ 10 °C + 40 °C	
operating humidity range	10 % 80 % (non-condensing)	
storage temperature range	- 10 °C + 60 °C	
optical interface	C-mount (optional: F-mount)	
CE / FCC certified	yes	

)> quantum efficiency





QE curves of image sensor as measured by manufacturer.

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

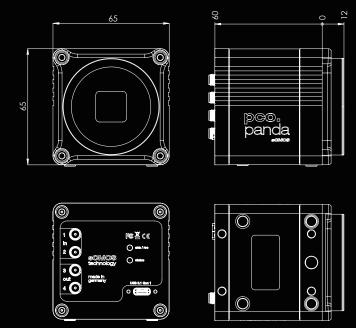
technical specifications

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>> benefits

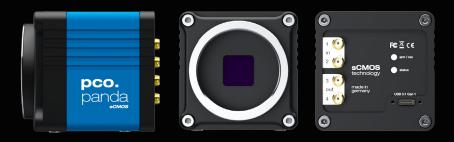
ultra compact design sealed electronics for dust & dirt protection spider-less mounting with only 6.18 mm to image plane

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 pathology | mesoscopy (low magnification microscopy) | 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







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