

pco.edge 6.2 LE

long exposure sCMOS camera

1288 
EMVA Standard Compliant

wide exposure time range
1 ms up to 3600 s

extremely low
dark current

deep-cooled
down to $-20\text{ }^{\circ}\text{C}$

no glow
modification

high resolution
6.2 MPixel

true charge domain
global shutter

interface	USB 3.1 Gen 1
sensor technology	sCMOS
color type	monochrome
resolution [pixel]	2496 x 2496
sensor diagonal [mm]	17.7
pixel size [μm]	5.0 x 5.0
max. frame rate @ full resolution [fps]	6
max. pixel rate [MPixel/s]	47
peak QE	63 % @ 500 nm
typ. read noise ¹ [e^{-}]	3.7
dark current @ sensor temperature [$\text{e}^{-}/\text{pixel}/\text{s}$]	0.3 @ $-10\text{ }^{\circ}\text{C}$
max. dynamic range	3200 : 1
shutter type	GS (Global Shutter)
sensor cooling ²	air & water
parasitic light sensitivity	1:10,000
dimensions H x W x L [mm]	85 x 80 x 109

¹ The readout noise values are given as median (med).
All values are raw data without any filtering.

² air = air forced with fan | water = external water connection

sCMOS follows in CCD's footsteps

The pco.edge 6.2 LE can be considered as the successor of deep-cooled CCD, long exposure cameras. Its design is optimized to realize long exposure times from milliseconds to minutes or even up to one hour. The image sensor is thermally stabilized at low temperatures of down to $-20\text{ }^{\circ}\text{C}$ in order to reduce the dark current to a minimum. Together with a high full well capacity and the wide range of exposure times, it is suitable for a broad field of low-light imaging applications like fluorescence, chemiluminescence, or astronomy.



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