pco.panda 26 DS

the new dimension in sCMOS double imaging

double shutter interframing time 1 µs

dust-protected housing

high resolution 5120 x 5120 pixels

true charge domain global shutter



ultra compact design



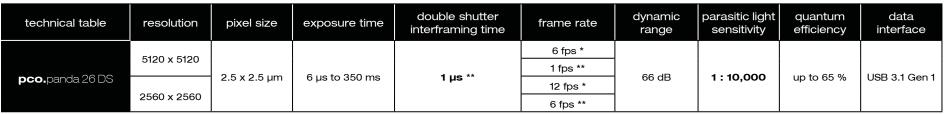




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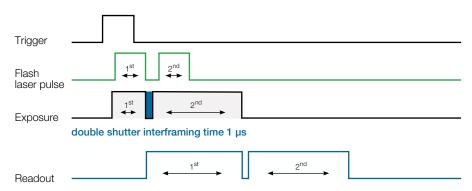
Two distinct 26 MPixel images with an interframing gap as low as 1 µs?

The outstanding global shutter capabilities of the **pco.panda 26 sCMOS** sensor make it a perfect candidate for effective **double imaging** – a prerequisite to perform all types of **P**article **I**mage **V**elocimetry measurements in flow analysis. In **PIV**, light scattering particles are added to the flow under test. A laser beam is formed into a light sheet, illuminating the scattering particles twice with a short pulse at a time interval Δt . The lower limit for this time interval is defined by the **double shutter interframing time** of the camera. The scattered light is recorded onto two consecutive frames of a high resolution digital camera. The shorter the **double shutter interframing time**, the higher the flow speeds which can be analyzed.



^{*} single shutter mode

Principled timing scheme for a pco.panda 26 DS in double shutter mode used for PIV measurements



The duration of the first exposure time can be configured. The duration of the second exposure time is fixed and pre-defined by the readout time of the first image. Therefore, it is usually necessary to prevent the sensor from ambient light during the prolonged second exposure time.







sCMOS cameras

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

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

^{**} double shutter mode