ILA.PIV.µEye CMOS Camera



The ILA.PIV. μ Eye is a very small, flexible and easy to use CMOS camera with:

- interframing time as low as 200 μ s (water or other low speed flow applications are recommended)
- Standard USB-C link (Notebook/Laptop) can be used for recording instead of large PC workstations
- 12 bit dynamic range
- >60% quantum efficiency

Now, you are prepared for almost every PIV task at hand. To facilitate camera setup a remote focus control is directly integrated.

Adjust your Canon EF lens precisely via our intuitive software without the need to access the camera anymore.



ILA.PIV.µEye CMOS Camera

General

power supply power consumption weight operating temp. operating humidity storage temp range optical interface CE / FCC certified * Other mounts available upon request

USB Power Delivery, 5-15 V 1.8 W - 3.1 W 115 g +10 °C .. +40 °C 20% .. 80% (non-condensing) -20 °C .. +60 °C C-mount* ves

Camera Exposure / shutter time 0.038 ms - 500 ms interframing time as low as 200 μ s dynamic range A/D 12 bit 38 MHz - 344 MHz pixel scan rate Frame rates: 80 fps - Free run modus - Triggered 80 fps 80 fps - Maximum trigger input signals

frame or sequence trigger exposure, busy

USB Type-C, screwable

Image Sensor

type of sensor image sensor Readout mode resolution (h x v) pixel size ($h \times v$) sensor size diagonal shutter modes quantum efficiency spectral range Gain AOI horizontal AOI vertical AOI image width. / step AOI image height / step AOI pos. grid (hor./vert.)

CMOS Mono CMV4000-3F5M **Progressive Scan** 2048 x 2048 pixel 5.5 μm x 5.5 μm 11.264 mm x 11.264 mm 15.93 mm (1/1") Global shutter >60% @ peak 400 nm .. 1000 nm 4x Max, frame rate Increased frame rate 16/42/22/2

Quantum efficiency [%]

trigger output signals

data interface



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