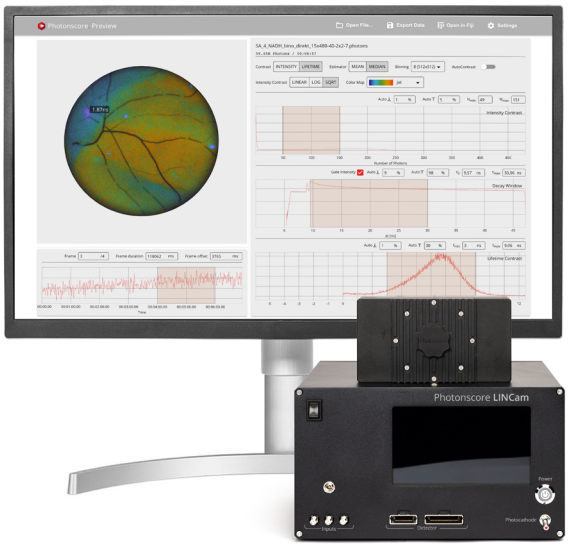
LINCam

Photonscore.
PHOTON COUNTING MADE EASY

Noiseless, position-resolved Single-Photon-Counting

LINCam is the quantum sensor solution for scanning-free time-correlated **single photon counting**. The camera accurately determines the x and y positions of individual photons with the precision of a **1000 × 1000**-pixel CCD, combined with a **40 ps** timing accuracy. When paired with a pulsed light source, LINCam transforms any conventional fluorescence microscope into a powerful lifetime measuring instrument. While LINCam boasts these capabilities, it remains as straightforward to use as a megapixel CCD camera, augmented with a high-precision timing dimension.



Detector parameters

Active area diameter, mm	17
Positional resolution, pixels	1000 × 1000
Temporal resolution, ps FWHM	< 40 (Blue, Aqua), < 45 (Green), < 55 (Red)
Dark count rate, Hz	< 15 (Blue, Aqua), < 50 (Green), < 200 (Red)

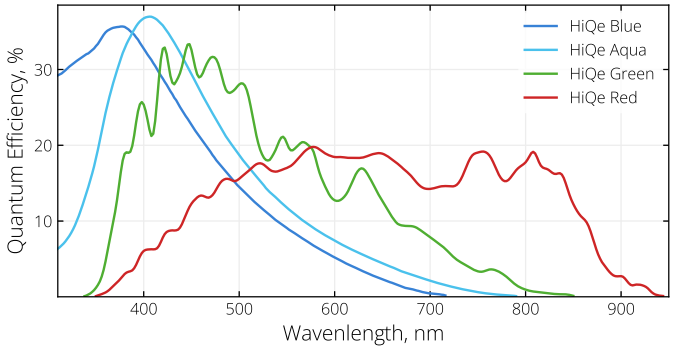
Acquisition

Maximum count rate, MHz	> 1
Dead time, ns	< 250
Timing method	FPGA based TDC
Timing jitter, ps FWHM	< 8.5
Digital bins size, ps	1
Number of bins / Timing window, ns	up to 100 000 / 100 ns
Reference / Sync input	positive or negative NIM

General

Optical connector	C-Mount
Dimensions, (w × d × h), mm	145 × 78 × 50
Cooling	Integrated water cooling
Operating system	Windows, macOS, Linux

Quantum efficiency



Get in touch & learn more

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