

High-Throughput Single-Photon-Counting

LINPix is the solution for ultra-fast single photon counting. The heart of the detector is a microchannel plate based photomultiplier tube, enabling a dead time below **2 ns** and sustainable count rates above **100 MHz** and burst rates of up to **1 GHz**. The combination of high throughput detection with a timing resolution below **35 ps** makes LINPix an ideal photon detector for your application. Its large **ø8 mm** sensitive area can accommodate one of four highly sensitive photocathodes, matching the spectral range you are interested in.



Get in touch & learn more

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Detector parameters

Max. recommended count rate, MHz	100
Shutdown count rate, MHz	110
Discrimination	Integrated CFD
Dark count rate, Hz	< 15 (Blue, Aqua), < 50 (Green), < 200 (Red)
Timing jitter, ps (FWHM)	< 35 (@ 1 MHz), < 45 (@ 10 MHz), < 75ps (@ 100 MHz)
Active area, mm	ø8
Dead time, ns	< 2

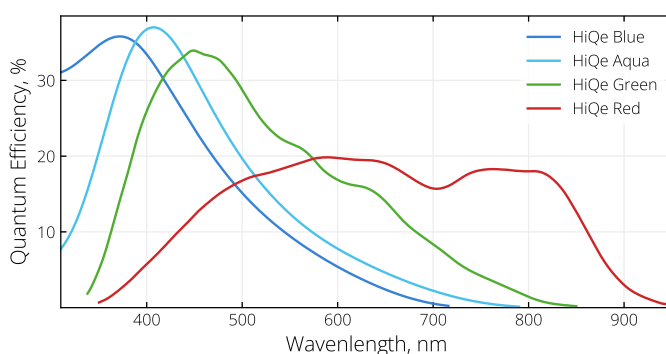
Signal output

Output connector	SMA Female
Output signal	NIM, 50 Ohm
Polarity	Negative

General

Power supply	12 V, 1 A
Optical connector	C-Mount
Dimensions, (w × d × h), mm	145 × 78 × 50
Cooling	Integrated water cooling

Quantum efficiency



Timing jitter

