LINPix

Photonscore.
PHOTON COUNTING MADE EASY

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.

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

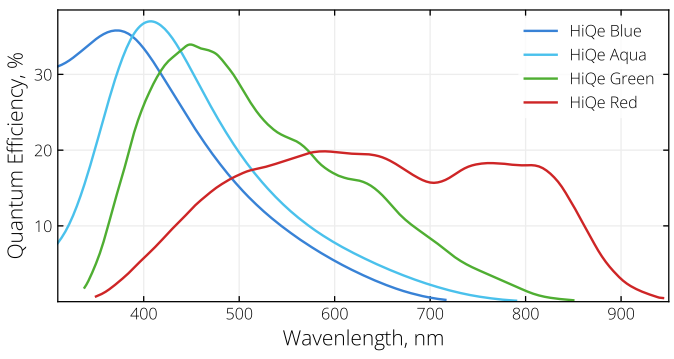
Signal output

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