

## 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   |

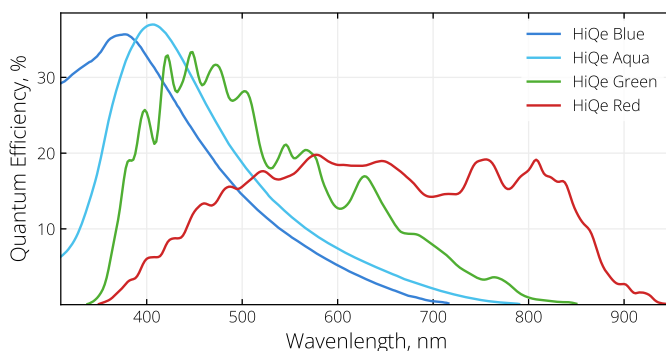
### Signal output

|                  |             |
|------------------|-------------|
| 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

