

Imaging Photon Counter

CAPTURE
EVERY
CELL



Count every photon

Photonis' Imaging Photon Counter provides a unique set of capabilities to support fast imaging techniques under light-starved conditions. The Imaging Photon Counter combines innovative MCP detector technologies and specially-designed fast electronics. With no read noise and a wide-field of view, the Imaging Photon Counter supports TCSPC applications in extreme low light.



Wide Field of View

Full C-Mount wide field of view (18mm round)

< 18mm >

Single Photon Time Tagging

MCP stack enables TCSPC techniques 100pS timing resolution

pS

High Spatial Resolution

Spatial resolution of photons on the X and Y axis <40 microns



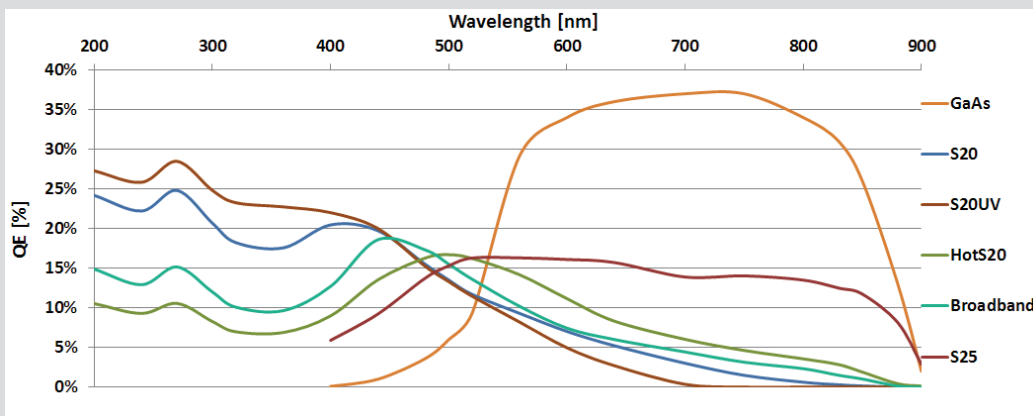
High Count Rates

Equipped for input event rates up to 5MHz and local count rates to 10kHz

5MHz

Photonis designed the Imaging Photon Counter technology to provide high-speed, high-resolution imaging without the read noise found in digital sensor technologies such as EMCCD or CMOS. The Imaging Photon Counter provides extreme low light images without sub-zero cooling and connects to any microscope or imaging device via a standard C-mount.

- Fluorescence Imaging
- Microscopy
- TCSPC
- Super Resolution Molecule Imaging



By equipping the IPC with a Hi-QE photocathode, Photonis can boost quantum efficiency by up to 50% compared to the traditional S20 or S25 photocathode.

PHOTONIS

Scientific Detectors

Photonis Technologies S.A.S

Domaine de PELUS
Axis Business Park - Bat E
18 Avenue de Pythagore
33700 Merignac, France

T +33 (0)556 16 40 50
F +33 (0)556 16 40 62
E science@photonis.com
W www.photonis.com

Photonis Netherlands B.V.

Dwazziewegen 2
9301 ZR Roden
The Netherlands

T +31 (50)501 8808
F +31 (50)501 1456
E science@photonis.com
W www.photonis.com

www.photonis.com

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