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)

**Single Photon Time Tagging**
MCP stack enables TCSPC techniques 100pS timing resolution

**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
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.
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