

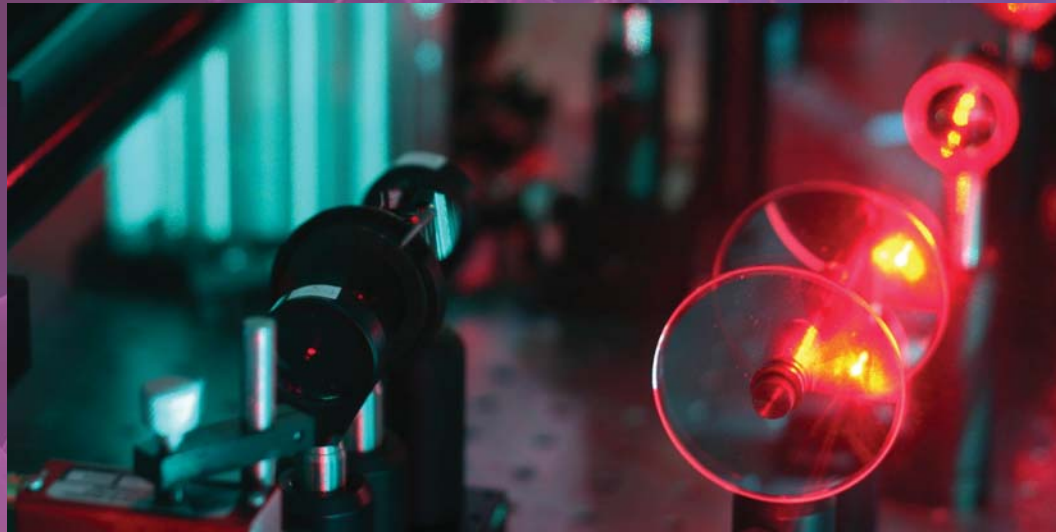
Photonic Detectors

CAPTURE EVERY PHOTON



Be the first to discover

Photonis has a long history of developing innovative and award-winning photonics products. We provide a wide range of high-speed, high resolution and fast timing photonic detection products that reveal high-energy particle physics phenomena, fly into distant galaxies, and diagnose medical illnesses. With Photonis photonic detection products, you will be the first to discover what has been hidden in your universe.



Testing and Inspection

Photonis provides highly sensitive detectors which can reveal the tiniest flaw. Our high-speed detectors can be equipped with electronic shutters for picosecond imaging in the spectral range needed to ensure product safety and quality assurance.

- QA PCB Testing
- Food and Drug Safety
- Weld and Pipe Validation
- Corona Inspection
- Ballistics and Forensics

Medical Diagnostics

Photonis' photon detectors provide high speed and high resolution even in the sparsest of light conditions. Our detectors can be paired with a range of low light and high speed cameras for use in a wide variety of medical diagnostic applications.

- PET Scans
- Endoscopies
- Fluorescence Imaging
- Radiography
- TCSPC

Research and Analysis

Our innovation and custom manufacturing team of R&D, Engineering and Technical Sales allows us to work with our customers for specially-designed photonic solutions to match the exact requirements for the project.

- Cherenkov Detection
- Beam Monitoring & Profiling
- LIDAR/LADAR
- Plasma Excitation
- Femtochemistry

Photonis provides award-winning innovation in every photonic detection product and system we offer. Our extensive experience in vacuum, photocathode and microchannel plate technologies means we can provide you with a custom solution complete with read out techniques that best supports your project. We design custom prototypes and develop them into full-scale production, so you will get the exact detector you need. Partner with Photonis and harness our knowledge and innovation for your next project.



Intensifier Tubes

Photonis offers intensifier solutions that provide gains of over 1 million with a choice of size and gating options unmatched in the industry. Our exclusive Hi-QE option boosts tube detection efficiency by 50% while reducing dark counts by up to 10X. Photonis Intensifier Tubes can be customized to match your desired specifications.

- Detector Size
- Photocathode
- Phosphor Coating
- Electronic Shutter
- Custom MCP
- Imaging Cameras



Imaging Cameras

Photonis photonic detectors are offered with a wide range of imaging output options and matching cameras to support both single frame and moving image phenomena. These cameras are equipped with our intensifier tubes which act as a shutter, capturing more images per second than other technologies such as EMCCD or sCMOS.

- ICCD
- ICMOS
- Imaging Photon Counter
- Nocturn Low Light CMOS



Hybrid Solutions

Photonis' hybrid photon solutions maximize single and multi-photon counting capabilities using Z-stack or Chevron MCP configurations. Our detectors support applications requiring spatial or temporal resolution with a wide range of options. Detectors providing immunity up to 2T are also available.

- Streak Tubes
- Hybrid Photo Diodes
- MCP-PMTs
- Planacons
- Optical Receivers





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