

ANALYTICAL INSTRUMENTS

ANALYZE EVERY MOLECULE



Be the first to discover

Photonis is the global leader in the engineering and manufacture of ion and electron detectors and inlet tubes for use in a wide range of analytical instruments and mass spectrometry techniques. Our photonic solutions support spectroscopy applications with a broad choice of spectral response options.

Our patented products provide superior lifetime and improved sensitivity so you will be the first to identify any unknown matter.



Every ion matters

Improved Ion Transport

Photonis' patented technologies maximize ion flow through capillary inlet tubes, drift tubes, collision cells, or reflectron lenses for a larger sample size. By eliminating background noise and focus on sensitivity, we provide products unsurpassed in the industry.

Dense Electron Generation

Photonis offers electron generators which act as a cold ionization source for X-Ray applications such as portable mass spectrometry.

Ion Detection and Electron Multiplication

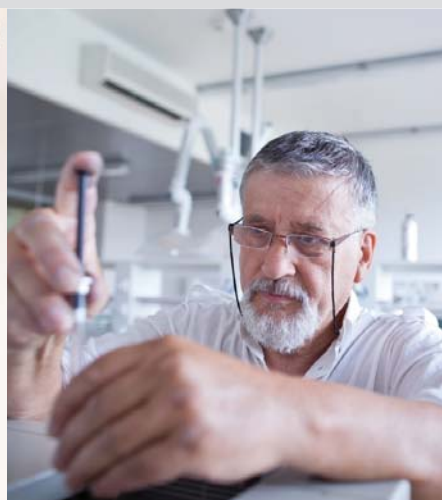
Our value engineered custom detector products support laboratory instruments as well as specialized portable applications for on-site screening. Photonis will co-design and engineer a custom detector exactly matching your requirements

Photon Detection

We provide a wide range of detection solutions for broad wavelengths, ranging from Gamma Rays to the IR. Our products provide gains of over 1 million for photon counting imaging techniques and spectroscopy applications.

Photonis offers custom design and manufacture capabilities to provide superior detectors which ensure the most efficient and accurate analysis for any instrument. Our detectors are custom-engineered for nearly half of the world's mass spectrometers. Whether you need a detector with superior sensitivity, a wider range of spatial or temporal resolution, or the ability to detect both positive and negative ions, Photonis has the product to meet your needs.

Additionally, Photonis offers a wide range of patented ion transport solutions that can increase ion throughput up to 1000X when compared to traditional solutions.



Our solutions for analytical instruments are highly sensitive and have a longer lifetime, enabling you to perform more testing more accurately.

● **Mass Spectrometry**

Supporting a wide range of techniques, including ICP-MS, LC-MS, GC-MS, Ion Trap, SIMS-TOF, MALDI-TOF, Single or Triple-Quad MS, and Magnetic Sector-MS.

● **Residual Gas Analysis**

High sensitivity and long lifetime to provide a more accurate yield.

● **SEM and FIB Applications**

Enabling low beam energy (200v) analysis for sensitive samples, Photonis detectors provide accurate edge detection, and accurate measurement.

● **Leak Detection**

Providing sensitivity down to parts per billion to detect minute leaks in critical applications.

● **Spectroscopy**

Superior resolution with a wide range of spectral response options to support VUV and UV-VIS.

PHOTONIS

Scientific Detectors

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