

Time of Flight Detectors

FAST
PRECISE
MEASUREMENT



Ultra Fast Timing

Time of Flight Detectors



Maximize Time Resolution

Photonis offers a wide range of Time of Flight detectors that support portable, ultra-fast and bi-polar solutions.

Photonis TOF detectors are offered in 18, 25, and 40mm sizes, with an 8mm size also available for portable TOF-MS. Patented MCP technologies bring you a TruFlite™ ultra-flat MCP guaranteed to ± 5 microns, providing a reduction in time jitter of up to 15%. Our patented bi-polar detectors measure both positive and negative ions with up to ± 10 KV bias, while high mass TOF detectors for MALDI-TOF applications feature a large 250 mm² collection area allowing for higher sensitivities (>100kDa) without the need for higher post-acceleration voltage.

TOF-MS system designers will appreciate our co-axial and off-axis detectors, supporting non-linear paths designed to reduce vacuum system size. Plug-and-play Quick-Fit® cartridges are available on most TOF detectors for simple assembly and maintenance.

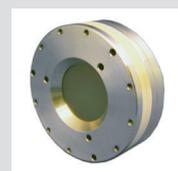
Photonis Time of Flight (TOF) detectors support the world's most sensitive TOF-MS applications. Our patented technologies and unique MCPs combine to provide the best temporal resolution, highest mass sensitivity and greatest dynamic range you need. Optimize your mass spectrometer with the best detector on the market for reliable results no matter what your analysis requires.



Choose your detector

Gen2 UltraFast

These new detectors are twice the speed of UltraFast detectors with near symmetrical rise and fall times of 125ps and 200ps pulse width.



GEN2

Advanced Performance

These detectors offer pulse widths 10-15x faster than conventional ion detectors.



BIPOLAR

BiPolar Detectors

Photonis offers the widest range of bipolar detectors including UltraFast, Advanced, Off-Axis and Co-Axial configurations. Photonis bipolar detectors are electro-optically coupled to protect sensitive system electronics.

UltraFast Detectors

These TOF detectors feature a 2 micron MountingPad™ MCP that, at 250ps, are 3-5x faster than Advanced Performance detectors. Available in standard and bipolar configurations.



ULTRAFAST

PHOTONIS

Scientific Detectors

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