

Portable size Time of Flight (TOF) Mass Spectrometer, Realized by the innovative multi-turn technology.

> The portable TOF-MS performs High Precision, High Resolution and Real-Time Analysis.

High Performance and Small Foot print Time of Flight Mass Spectrometer by using the Multi-turn Technology



There are four orbiting electrodes and two injection/ejection electrodes on a palm-sized optics bench. The lon source gives kinetic-energy for orbiting motion in the infinit loop. Injection and ejection electrodes are synchronized with lon source pulsing triggering. Injection electrodes has to be in the on state while ions enter the analyzer, then has to be turned off before first ion (smallest ion) returns to it. Orbiting electrodes are constant, so orbiting ion can be held until ejection electrode is ON.



1. High-resolution separation of low molecular weight gases



Specification

Resolution Mass range Ion-source Sensitivity Mass accuracy

Data recording speed Dimensions(mm) Weight >30,000 (FWHM) 1 to 1,000 m/z El (Pos) ¹³²Xe(approx.30ppb in air) S/N>10 <0.002u (Internal Std) <0.005u (External Std) up to 50spectra/sec W270 x H460 x D550 39kg



infiTOF-DUO

Application

- Process gases monitoring for semiconducting manufactures
- Measurement of evolved gas from various materials by TPD-MS, TG-MS
- Analysis of trace components in Air and high-purity gas
- Contamination analysis of hydrogen gas for fuel cell
- Combustion gas analysis
- Isotope analysis



Pittcon2010 Bronze Award



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