



Press release – Pittcon 2016 – Booth # 1628

IONICON presents the new PTR-TOF 1000 *ultra* trace gas analyzer

Up to 10x more sensitivity thanks to the revolutionary new [ION-BOOSTER funnel technology](#).

The [PTR-TOF 1000 *ultra*](#) is the new benchmark for ultra-sensitive volatile organic compound (VOC) analysis in real-time. Integrated in an affordable, small and light PTR-TOFMS instrument.

ION-BOOSTER funnel

PTR-MS is known for its unmatched capability to detect ultra-low concentrations of VOCs in air or gas in real-time. Now IONICON experts take the sensitivity of PTR-MS to the next level, introducing the ION-BOOSTER funnel technology. An ion funnel is an array of ring electrodes with decreasing orifice sizes. A RF-voltage is applied that focuses the ions through the lenses. Compared to traditional transfer lens systems, our funnel greatly improves ion transmission leading to a much higher sensitivity.

PTR-TOF 1000 *ultra*

In 2014 the launch of the PTR-TOF 1000 was a milestone. Being IONICON's first PTR-TOFMS instrument featuring all advantages of a time of flight mass spectrometer, but with the lower price tag of a quadrupole based PTR-MS. Driven by the market success of this instrument, the IONICON engineers created an instrument that provides an up to 10x higher sensitivity: the PTR-TOF 1000 *ultra*. Based on the same platform it is still IONICON's smallest, lightest and most affordable *ultra*-sensitive PTR-TOFMS trace gas analyzer.

Upgrades for existing systems

For IONICON, customer satisfaction and a sustainable, reliable product development process is key. "We make sure that new technologies become available also for our existing customer base. New products should not automatically outdate existing instruments and therefore we offer upgrades for selected IONICON instruments", IONICON CEO Lukas Märk comments on the company's technology evolution strategy. And he adds, "Get in touch with IONICON to evaluate your instruments' upgrade potential!"

For selected IONICON instruments upgrades to the ION-BOOSTER funnel technology will become available. Currently upgrade packages are being conceived for the PTR-TOF 1000/2000/8000 series.

Launch Event

Visit IONICON's booth at PITTCON and Analytica, the international launch events of the PTR-TOF 1000 *ultra*, to learn more:

[Pittcon](#), Atlanta, 7. – 10. March, booth # 1628

[Analytica](#), Munich, 10. – 13. May, booth # A2.113



About IONICON

IONICON is the world's leading manufacturer of real-time trace gas analyzers for low concentrated volatile organic compounds (VOCs) monitoring, based on the unique Proton Transfer Reaction – Mass Spectrometry (PTR-MS) technology, since 1998.

The scientific main application areas include atmospheric chemistry, environmental research, exhaust analysis, food and flavor science, illicit substances detection and breath analysis.

In addition to laboratory instruments, IONICON also produces specialized VOC monitoring systems for industrial applications such as the semiconductor industry or for field deployment. A strong technical background allows the company to build its own time-of-flight mass spectrometers, sampling and calibration systems for its analyzers, fast gas-chromatography and auto-sampling modules incl. various multiplexing set-ups.

IONICON hosts an application lab at its headquarters in Innsbruck, Austria offering analytical services to its customers, from initial sample tests to long-term studies.

Learn more about IONICON [here](#).

Resources

Download a high-resolution [product picture](#) of the PTR-TOF 1000 *ultra*.
Credit: © IONICON Analytik GmbH

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