

Excellims GA2200 Standalone High Performance Ion Mobility Spectrometer

The GA2200 offers high-resolution chemical separation within seconds of analysis time; combining speed, specificity, pg-sensitivity and ease of use, the GA2200 has strong advantages for many routine detection and quantification applications

- Chemical analysis with HPLC-like performance in **15 - 60 seconds**
- Drift time analysis by shape and size enables **separation of isomers** and **coeluting compounds**
- 2-3x **higher separation power** than regular ion mobility devices (HPIMS resolution: 70 – 120)
- Wide applicability, including **non-volatiles**, through use of electrospray ionization (ESI)
- **Minimal sample preparation** and no need for large quantities of solvents
- Analysis of **liquid, solid and gas samples**
- Designed for operation **at-line and in mobile labs**, lab-cart and vehicle mounts available
- Applications include production **process control**, **cleaning validation**, detection of **adulterants and contaminants**, detection of **explosives and drugs of abuse** with **pg-level sensitivity**



The GA2200 is the next generation of the Excellims GA2100, the first commercial stand-alone ESI-HPIMS analyzer. This analyzer excels by combining an atmospheric pressure drift tube for high resolution separation with an electrospray source enabling analysis of a wide range of compounds inaccessible to traditional low-resolution, thermal desorption IMS. With a resolving power of 70 - 120, typical detection limits in the ppb-range and 2 – 3 orders of linear range, the GA2200 offers HPLC-like performance with an acquisition time of under a minute per sample.

With its compact form factor, straightforward touchscreen operation, and minimal sample preparation requirements, the GA2200 can be used inside the lab as well as at-line, mounted on a cart to serve multiple analysis points or inside a vehicle for mobile lab and forensics applications.

While electrospray analysis of liquids is the most common application for the GA2200, it can also be used for the analysis of swabs using a thermal desorber or accept gas-phase samples via the optional gas inlet. Advanced separation capabilities via drift gas modification and integration with autosamplers are available. This combination of solid analytical performance, speed and high versatility make the GA2200 a powerful solution for your routine chemical analysis.

Performance Characteristics

Resolving power	70 – 120
Analysis time / sample	15 – 60 seconds
Sensitivity	ppb – ppm / pg – ng range
Linear dynamic range	2 – 3 orders of magnitude

Applications examples

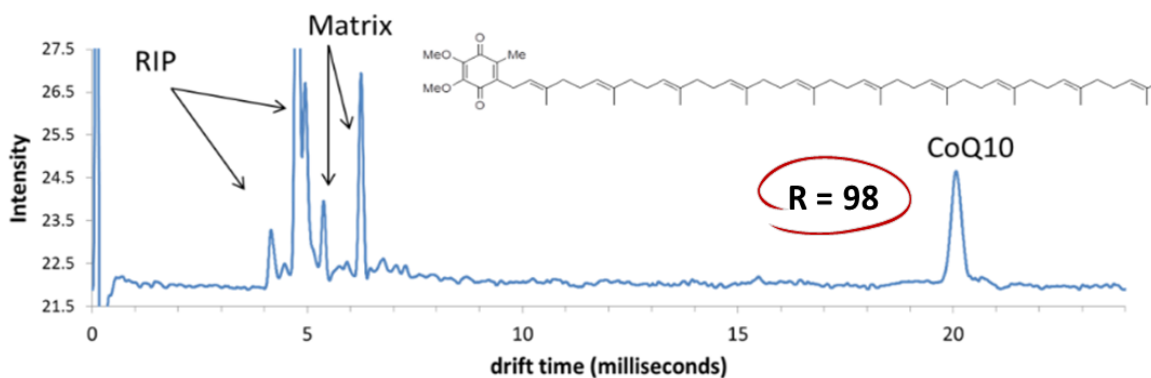
Food, beverage, nutritional	<ul style="list-style-type: none">Sugars, flavorants, colorants & additivesContaminants and toxic adulterants
Pharmaceutical manufacturing	<ul style="list-style-type: none">Cleaning validationIsomer separation in process controlFermentation process monitoringAt-line reaction end-point monitoring
Forensics & anti-terrorism	<ul style="list-style-type: none">High resolution explosives detectionDrugs of abuse in mobile analysis lab

Contact Excellims for additional applications

Hardware, Software & Options

Ion source	Electrospray (ESI), Thermal Desorber optional – liquid, solid and gas samples
Drift tube	Atm. pressure, 10 cm
Drift gas temperature	Up to 250°C
Drift gas	Air, N ₂ , CO ₂ , He etc.
Dimensions (H x W x D)	18.5 x 16 x 18.4 inches / 47 x 41 x 47 cm
Weight	42 lbs. / 19 kg
Power	AC 110/220 V, 50/60Hz
Operating environment	-5°C – 45°C
Computer control and software	Built-in Windows computer with touchscreen display Vislon™ control and data analysis package 21 CFR part 11 compliant Network connectivity; wireless/Bluetooth option
Optional equipment	Autosampler, cart and vehicle mount, drift gas modification unit (DGMU)

Highest resolution in a commercial stand-alone IMS analyzer – GA2200



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