

**Fastest technology in
mass spectrometry**

Phytronix  **SHIMADZU**
Excellence in Science

LUXON

Based on the LDTD technology

- < 1 Second Sample-To-Sample Analysis
- High sensitivity allows for low sample volumes
- Uninterrupted automated workflow
- Powered by Fiber Optic technology
- Quantitative technology for mass spec
- Plug-and-play compatibility with :
 - Shimadzu Mass Spectrometers and LabSolutions software

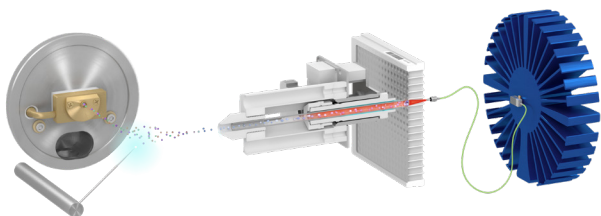


The Luxon Ion Source is the second generation sample introduction and ionization source based on the LDTD® technology for mass spectrometry. The Luxon uses Fiber Optic for increased ultra-precision laser focus which can provide analysis speed of less than 1 second per sample. The redesigned technology offers increased performance and robustness in applications with very low sample volumes.

The Luxon process integrates with automated liquid handling and robotic transfer arm systems to provide real high-throughput and continuous automation for your laboratory workflow. This patented ionization source offers outstanding analytical performance in pharmaceutical, bioanalytical, forensic, food and environmental industries and performs exceptionally well in other analytical fields.

Principle of operation:

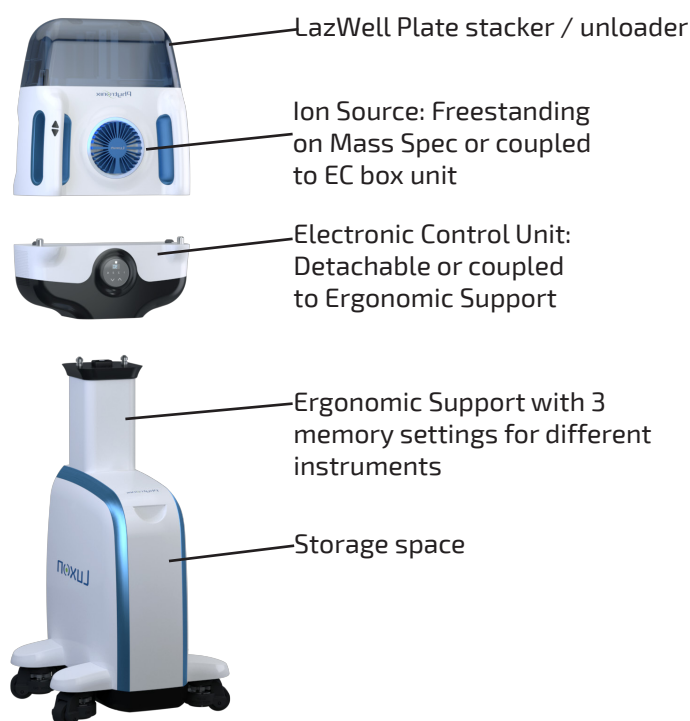
Luxon ion source uses Fiber-Coupled Laser Diode to obtain unmatched thermal uniformity giving more precision, accuracy and speed. The process begins with dry samples which are rapidly evaporated using indirect heat. The thermally desorbed neutral molecules are carried into a corona discharge region. High efficiency protonation and strong resistance to ionic suppression characterize this type of ionization, and is the result of the absence of solvent and mobile phase. This thermal desorption process yields high intensity molecular ion signal in less than 1 second sample to sample and allows working with very small volumes.



Performance Characteristics - Luxon 960 and 3840

- New LazWell plate stacker allows continuous operation for nonstop analysis of samples.
- 10 plate tower racks for easy loading
- Ready for Phytronix automated robot arm for continuous uninterrupted analysis process
- Low sample volume
- Plug and Play device; easy to install
- Direct sample introduction; no carry over and no memory effect

Versatile Multicomponent System



LazWell-96 plate (for use on Luxon-960 systems)

- Barcoded for sample traceability
- Low volume delivery (0.1-10 μ L)
- LazWell plates are made in controlled environment
- Compatible with most liquid handling systems

LazWell-384 plate (for use on Luxon-3840 systems)

- Barcoded for sample traceability
- Low volume delivery (0.05-2.5 μ L)
- LazWell plates are made in controlled environment
- Compatible with most liquid handling systems

Full software integration with OEM Mass Spec

- Easy to install drivers
- Sequence and batch analysis in OEM software
- Barcode reader for sample traceability

Installation Requirements

Power

- 100 – 240 Vac, 50 / 60 Hz, 275 VA (W)

Gas

- Oil-free compressed dried air (H₂O content within 3 - 1800 ppm)
- Inlet air pressure between 60 and 120 psi (414 to 827 kPa)
- Maximum consumption of compressed air is 10 L/min at ATM

Environment

- Optimum operating temperature is 15-35 °C
- Maximum relative humidity of 80% up to 31°C or 67% at 35°C
- Indoor use only

Application fields:

«The new generation instrument for HTS»
Label-free High Throughput screening of CYP mediated metabolism

Urine Screening for pain management and toxicology laboratories

High-throughput analysis for environmental testing

High-throughput analysis for food safety

Visit phytronix.com for more information and applications

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