

LaserToF TT

MALDI ToF/ToF MS/MS.

LaserToF TT is a Research Grade MALDI MS/MS instrument, incorporating some of the most advanced performance and design features of any mass spectrometer. The TT is the result of an accumulated knowledge base. It offers rapid and accurate single scan seamless MS/MS analysis. The design combines high resolution peptide mass fingerprinting and peptide sequencing by uni- or bi-molecular fragmentation. The instrument is equipped with a 2D sample stage (including 96/384/1536-well format) for high throughput automated analysis.

Key Features

- **Attomole Sensitivity**
- **Novel “ZOOM” Lens**
- **Collision Cell**
- **Post Source Decay (PSD)**
- **Ideal Field Reflectron**
- **Full Proteomics Software**
- **Full Imaging Capability**
- **Optional Nd/YAG Laser**



Mass Spectrometer

Time of Flight Mass Analyser

- Novel Ideal Field reflectron design enabling seamless MS/MS in a single scan
- Unique 2-D sample stage with fast change over and precise positioning
- Integrated sample viewing camera and laser optics to give maximum control of experiments
- Advanced acquisition and control electronics capable of operation with high repetition laser frequencies
- High stability and automatic calibration for maximum precision in peptide measurements

Detector

- Long lifetime fast electron multiplier detector system as standard for linear operation
- Fast hybrid multiplier detector as standard for reflectron operation giving high gain, large dynamic and linear range for improved system performance

Data System

Hardware

Personal computer based on a Pentium processor and including:

- 1 Gbytes of RAM
- High capacity hard disk drive
- CD-ROM drive
- 21" flat screen colour monitor.
- Network connection

Software

Full control of all MS parameters,

- Data acquisition and data reduction program
- Automated sequence programming for batch operation
- Integrated camera and viewing software
- Report generator and Open Office
- Database search of both peptide map and PSD data
- The system comes network ready

Specifications

- **Resolution:**
Reflectron >20,000 (FWHM)
Linear > 4,000 (FWHM)
- **Mass Accuracy:**
External calibration 50ppm RMS
Internal calibration <5ppm RMS

- **PSD Resolution** > 5,000 (FWHM)
- **Sensitivity** < 100 attomoles
- **Mass Range** > 500,000 Da

Laser

Type Pulsed UV 337nm (nitrogen)
Optional Nd/YAG

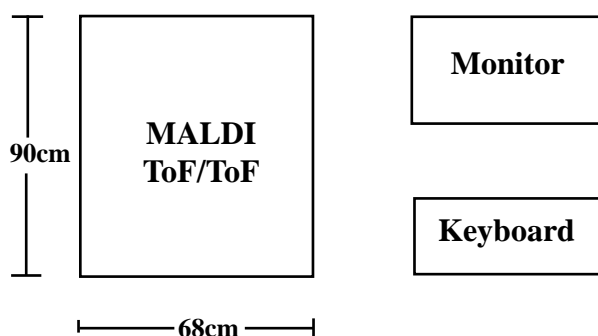
Vacuum System

Differential pumping provided by two high efficiency air cooled turbo-molecular pumps coupled to a two stage rotary pump.

Services

Power: 220-250V, 4.5 A, single phase or 110V, 9A single phase
Environment: Temperature range from 15-27°C
Dimensions: 68 x 90 x 220 cm (W x D x H)
Weight: Approx. 250 Kilos
Services: Electricity only. No water required

Layout



Local Representative

