

# LaserToF TT

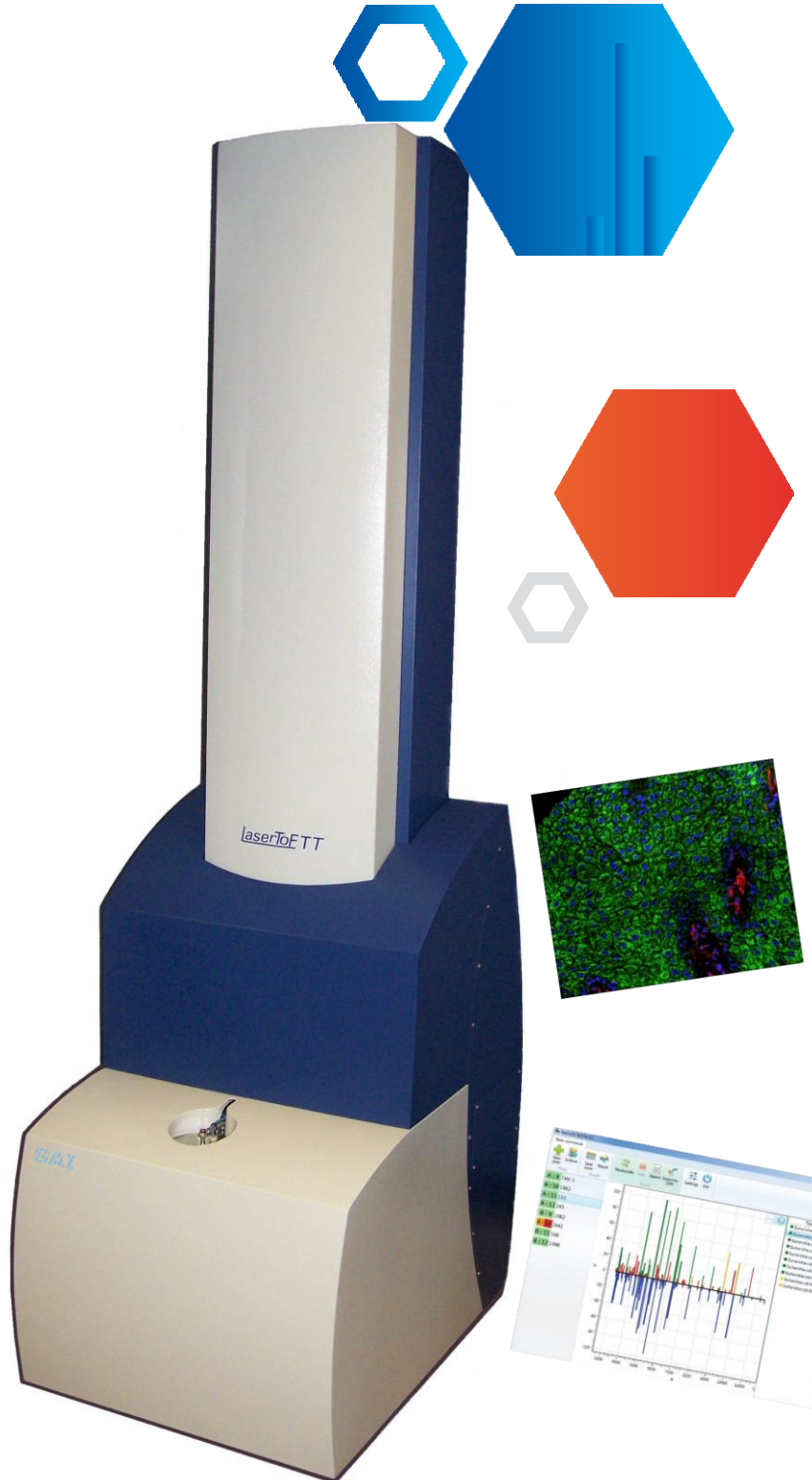
## Research grade MALDI ToF-ToF

- Reflectron & Linear MALDI ToF
- Ideal Field Reflectron Design
- Dual Detectors
- Pulsed Extraction
- Sample viewing camera
- 96 well microtitre sample plates
- Custom Experiment Profiles
- Stratified User Access
- Automated sequencing
- Single scan seamless MS-MS with PSD or CID gas cell
- Imaging with Zoom Optics
- Attomole sensitivity
- Options
  - Nd/YAG Laser
  - Polymer Analysis
  - Microbiology database ID

SAI's LaserToF TT is a completely automated, research grade Matrix Assisted Laser Desorption Ionisation Time of Flight (MALDI-ToF) mass spectrometer. The instrument is designed for the rapid and accurate analysis of a wide variety of biomolecules such as peptides, proteins and oligonucleotides. The LaserToF TT is also suitable for the analysis of industrial polymers as used in the petroleum and chemical additive industries.

As well as a conventional linear mode for high mass applications, the TT has an ideal field reflectron providing the user with much superior mass resolution for peptides and other smaller molecules offered for analysis. In addition single scan seamless MS-MS is available using the Timed Ion Gate and Post Source Decay or a CID (Collision Induced Dissociation) gas cell. A patented zoom optics ensures optimum sensitivity is maintained down to the attomole range.

The mass spectrometer includes advanced acquisition and control electronics, is easy to calibrate and is highly stable for optimum precision in a wide variety of measurements. The fast electron multiplier and hybrid detection systems have a long lifetime, need minimal maintenance and provide the system with high gain, linear and large dynamic range performance.



Product Note

P102

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MASS SPEC

SIMS

MALDI MS

AMBIENT MS

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# LaserToF TT



## Specifications

| Specification          | Performance   |
|------------------------|---|
| Mass Resolution        | > 20,000 m/Δm (Δm=FWHM reflectron mode)<br>> 4,000 m/Δm (Δm=FWHM linear mode)                         |
| PSD mode               | > 5,000 m/Δm (Δm=FWHM )   |
| Mass Range             | > 500,000   |
| Mass Accuracy          | < 5 ppm with internal calibration RMS<br>< 50 ppm with external calibration RMS                       |
| Vacuum                 | 2 air-cooled TMPs backed by a 2 stage rotary pump   |
| Sensitivity            | < 100 a mol   |
| Laser radiation        | Pulsed UV ( N <sub>2</sub> 337nm )<br>(Nd/YAG option 355nm )  |
| Dimensions [ Weight ]  | 68x90x220 (WxDxH cm) [ approx. 250 kg ]<br>(figures exclude computer)                                 |
| Services (power only)  | <1kVA (excluding computer), single phase  |
| Motorized Sample Stage | 96 well 1/4 microtitre plates (stainless steel reusable)  |
| Data System            | PC running Windows.   |
| Software               | Full MS control and sequenced data acquisition, network, web or local database access with processing |
| <i>Environmental</i>   |   |
| Temperature range      | 15-25C  |

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### RELATED PRODUCTS

LaserToF LT2+      P100  
LaserToF LT3+      P101



### EXAMPLE APPLICATIONS

- BIOLOGICAL IMAGING
- FAST ID OF BACTERIA, & FUNGI
- BIOMOLECULE ANALYSIS
- POLYMER ANALYSIS
- PROTEOMICS



### LOCAL REPRESENTATION

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