

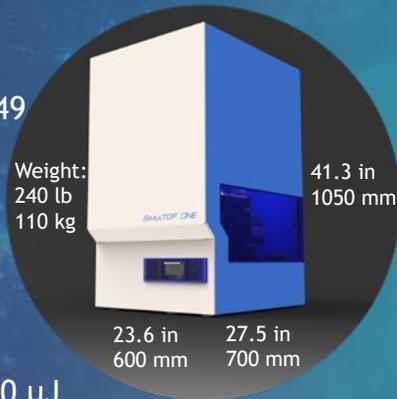
SimuTOF ONE Specifications: BenchTop Cabinet

Vacuum System

- Dual turbomolecular vacuum pumps
- 24 VDC Mechanical Pump
- Patented fast plate loading <30 seconds load to operate
- Quick Clean Ion Accelerator—1 minute hands on, 1 hour pump down

Laser

- Solid-state Nd:YLF @349 nm
- 0.1-5 kHz standard with computer controlled fluence 1-30 μ J
- Number of shots before maintenance $>10^{12}$
- Laser spot dia 5-30 μ m



Imaging Speed

- Up to 300 pixels/sec

Ion Energy +20 kV

Performance

- Resolution and sensitivity over 3-100 kDa mass range, superior to all other linear MALDI-TOF instruments



Learn more at

simultof.com



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Marlborough, MA 01752-3056

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demos@simultof.com



SimuTOF Systems Molecular Imagers

Discover **FASTER** with
MALDI-TOF

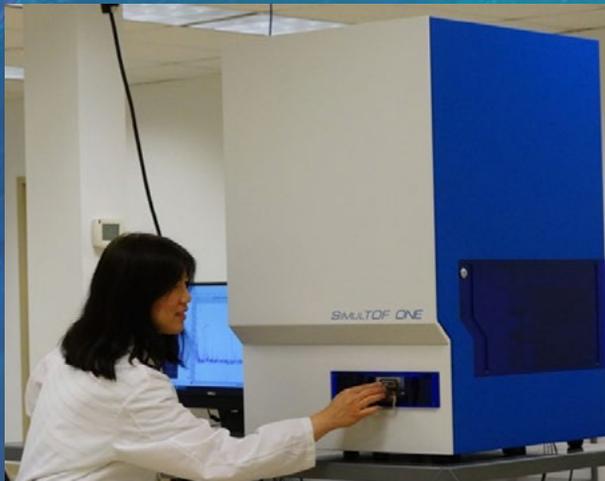
It is as easy as



QUANTITATIVE MALDI-TOF IMAGERS FOR BIOLOGICAL APPLICATIONS

UNIQUE FEATURES

- Unlimited Mass range
- High performance over broad mass range
- High speed
- High spatial resolution
- Long term reliability and stability
- Reproducible spectra

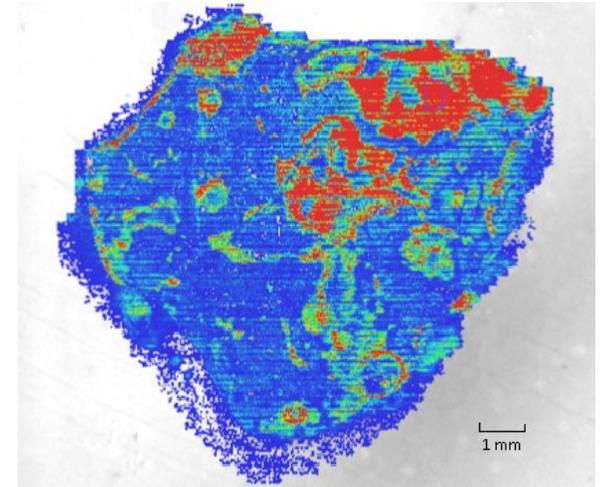


High-speed molecular imaging of proteins

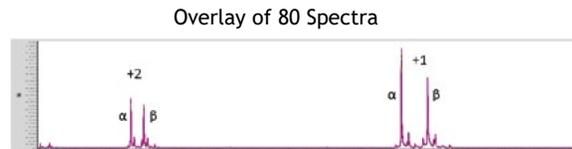
300 pixels/s with 10 μm spatial resolution

Broad mass range with up to 500,000 bins/spectrum

5 kHz laser with 1-50 laser shots averaged/pixel. Up to 2 million pixels/image acquired, saved, and analyzed at 10 μm spatial resolution, 1 cm^2 tissue analyzed in 60 min.



Reproducible spectra



Hemoglobin A1c Assay
Whole blood diluted 1:2000
Same sample on all 80 spots

GlyHb/Hb(%)
Average=13.14
CV=0.90%

Unlimited Mass Range

