

Upgrade for the MALDI-8000 Series MALDI-TOF mass spectrometers

MALDI EasyCare





Designed for your benefit...

- Perform routine maintenance of your system*
- Reduce service engineer call-outs
- Reduce costs
- Increase uptime



...ideal for MALDI imaging and high-throughput applications



MANUAL SOURCE CLEANING

EASILY REMOVE, CLEAN AND RE-FIT ION OPTICS



- Easy access to contaminated ion optics to recover instrument performance
- Tool-less opening of ion optics access panel
- Safety guaranteed with interlocks
- Step-by-step guidance in software
- Easy removal/re-fit of ion optics using simple twist action
- No technical expertise required
 ion optics fits only one way





- Easy cleaning of ion optics
- Simple wipe process
- No sonication required
- Only front lens cleaning needed

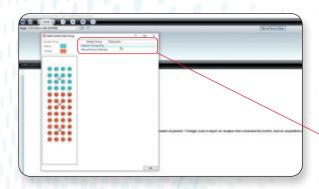
Easy workflow to increase your uptime

In all MALDI-TOF instruments, the ion optics which accelerate the ions towards the detector are susceptible to contamination as a result of the MALDI process. Such contamination can lead to reduced instrument performance. The Shimadzu MALDI EasyCare solution offers a convenient way to perform routine maintenance on your system and increase your uptime.



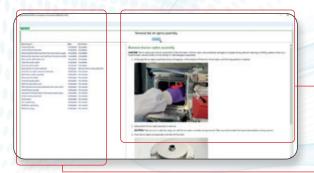
AUTOMATED TUNING

SOFTWARE WIZARD TUNES DEFLECTORS AND DETECTOR FOR YOU



- Full guidance by software wizard
- Two workflow options for convenience: detector tuning only and full (manual clean) workflow





- Step-by-step guide with graphics ensures you cannot go wrong
- Progress table keeps you updated

• Full workflow (~2.5 hrs)



Manual source clean



Deflector tuning



Detector tuning

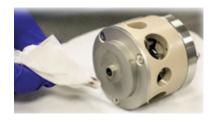
 Detector tune only workflow (~20 mins)



Detector tuning

Guided workflow

Full guidance by software wizard which automatically tunes system to optimise instrument performance. No technical expertise required.



MALDI-8000 series

A LEGACY OF CLASS-LEADING PERFORMANCE

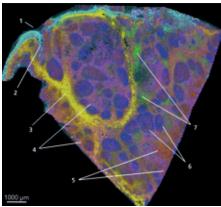
Upgradeable flexibility without compromise...

The updated Shimadzu benchtop MALDI instruments retain the same class-leading performance as the previous models, ensuring good mass resolution and sensitivity for your analysis. Easily upgrade MALDI-8020^{TM*} and the dual-polarity MALDI-8030^{TM*} with MALDI EasyCare through a software licence activation.

*EasyCare-ready versions only



Outstanding value for MALDI Imaging...



C. Jones (2023), IMSIS poster 46

Immunohistochemistry MALDI mass spectrometry imaging (IHC-MALDI MSI) of human tonsil using 6 probes in a single analysis to monitor high molecular weight protein biomarkers.

Experiment details: 26773 profiles acquired at 200 Hz laser speed over duration of 3 hrs 45 mins in positive ion mode at 50 µm spatial resolution on MALDI-8020. Matrix deposition with Shimadzu automated sublimation device iMLayer using DHB MALDI matrix.

6-plex markers: VIM(Vimentin), CD68, CD3ε, Collagen-1A1, Ki67, PanCK. Probes provided by AmberGen.

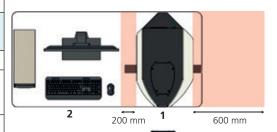
- 1. Stratified squamous epithelium
- 2. Crypt
- 3. Extracellular matrix
- 4. Lymphoid tissue
- 5. Macrophage distributions
- 6. Lymph nodules containing geminal centre cells
- 7. Cytoplasmic T-cell distributions

Specifications				
Mass range	nge m/z 1 - 500,000			
Mass resolution	lution >5000 FWHM – ACTH 18-39 (m/z 2465)			
Accuracy	<20 ppm with internal calibration			
	<150 ppm with external calibration [†]			
Sensitivity	250 fmol – bovine serum albumin (loaded)			
	250 amol – Glu-1-Fibrinopeptide B (loaded)			
Size (w x d x h)	w x d x h) 450 mm x 745 mm x 1055 mm [17.7" x 29.5" x 41.5"]			
Incl. stabiliser	600 mm x 745 mm x 1055 mm [23.6" x 29.5" x 41.5"]			
Weight	92 kg			

[†] Nearest neighbour external calibration on FlexiMass-SR48 target, within 30 minutes All performance data are acquired using standard test samples on a FlexiMass-SR48 stainless steel target.

Installation requirements						
Utilities	Power	100 to 240 VAC, 50/60 Hz, 1000 VA single phase				
	Power	A 'clean', stable and continuous mains supply is required for reliable operation				
Environment	Temperature range	ambient 18°C to 28°C for performance				
		ambient 15°C to 32°C for operation				
	Relative humidity	less than 70%, non-condensing				

Installation Example								
No.	Description	Dimensions (mm)			Weight			
	Description	W	D	Н	(kg)			
1	MALDI benchtop	600 mm	745 mm	1055 mm	92 kg			
2	Control PC, monitor, keyboard and mouse (reference)	~850 mm	~550 mm	~500 mm	~10 kg			
3	Table (reference)	1500 mm	750 mm	750 mm				



MALDI-8020 and MALDI-8030 are trademarks of Kratos Analytical Ltd. iMLayer is a trademark of Shimadzu Corporation



Discover more

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