



BioTray

Microtechnology for Life Science
& Chemistry Applications

MS 10-100™ v2

We Have Just Made It Easier

Speed up your research activities
by creating your own microstructured surfaces
with BioTray's technology



Maskless Lithography

You can create your personal patterns from lines to complex microstructures thanks to our easy-to-use software: high resolution 2D patterns (μ PCLight™) & laser/scanner control (SamLight™).

This technology offers the operator unsurpassed freedom for creativity

Easy to Use & Totally Flexible

This innovative tool, entirely automated and programmable is designed to be used by non-specialists. The MS 10-100™ v2 is modular, accommodating almost all commonly-used materials and adaptable to your substrate size, shape and thickness.

It is a versatile tool and an effective new way to support and optimise your research activities

Quick Process and Reproducibility

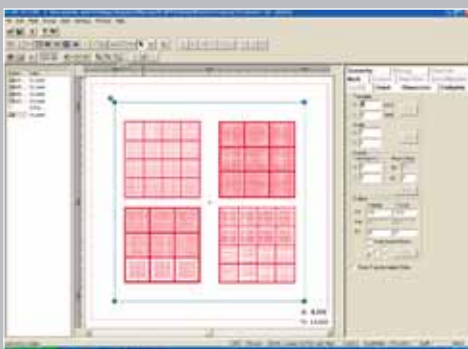
20 minutes suffice to produce a complex microstructured surface from a CAD-generated pattern.

With the MS 10-100™ v2 get both speed and high precision unattainable with traditional processes

High Space Gain

The "all-in-one" MS 10-100™ v2 performs the work of six different machines essential for the production of microstructured surfaces, without the need of a dust-free environment.

You will no longer be hindered by expensive and cumbersome systems



Enabling Technology

The capabilities and flexibilities of the MS 10-100™ v2 make it the essential lithography research tool in MEMS, BioMEMS, Microfluidic systems, Sensors, Optical components, MicroPatterning, Lab-on-chip, CMOS and all other applications that requires microstructures.

Technological breakthrough in the production of microstructured Surfaces

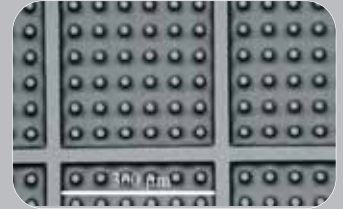
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Technical Specifications

Dimension	Base: 68 x 65 cm - Height: 83 cm
Weight	80 Kg
Diode Laser	
Wavelength	405 nm
Power	Up to 50 mW
Optical System	
Lens System	f-Theta Scan Lens for 405 nm. Focal length is adjustable according to substrates thickness. Laser beam size: 5 µm
Write Head	Galvanometer Optical scanner
Maskless Lithography System	Direct Writing by laser
Alignment & Stage System	
Substrate size	Different shape & size - until 1inch / 1inch
Substrate thickness	Up to 10 mm
Stage system	High precision stage (X,Y and theta)
Metrology & Alignment	Camera system with optics for substrate alignment (option)
Processing	All parameters are programmable: Preparation - Spin Coating - Soft Bake - UV Exposure - Developing - Hard Bake - Wet Etching Photoresist Removal - Cleaning
Clean room	Dust free environment - Air quality class 100
Multiple data input format	DXF, DWG, GDS, HPLG ...
Software	
µPCLight	High resolution 2D patterns
SamLight	Laser & scanner control

Lithographed chips:



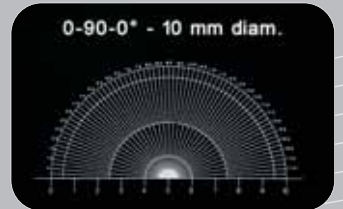
Etched chips & Sealed chips:



Microfluidic systems:



Optical Reticle:



BIOTRAY works only with recognized industrial partners who use the most powerful technologies.

To benefit fully from your MS 10-100™ v2, BIOTRAY has developed a complete range of services to support you.

F.A.Q: BIOTRAY offers access to a hotline with answers guaranteed within 48 hours.

Training: BIOTRAY provides training on MS 10-100™ v2, as needed, either on site or in our lab (groups up to 6 people).

Guarantee: Profit from additional exclusive services with an extension of guarantee.

After Sales Service: BIOTRAY has developed a powerful system that can remotely detect a possible breakdown, a faulty operation as well as defective components

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