

Modular AFM / STM System SOLVER Nano

Suitable for both scientific research and nanotechnology education

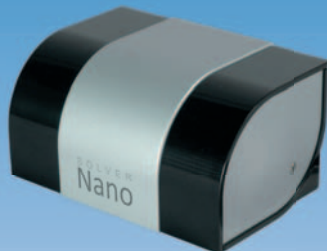


- AFM/STM atomic resolution
- All AFM/STM modes and nanolithography
- New digital controller
- Closed-loop scanner
- Easy Laser - Photodiode alignment
- Remote control via the Internet
- Data sharing via iPhone™ and iPad™

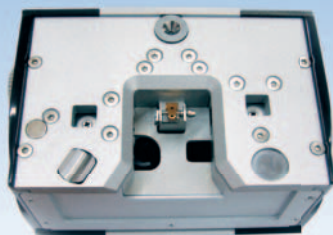
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Easy-to-transform solution for:

SCIENCE



STM measuring head



AFM measuring head for Si probes

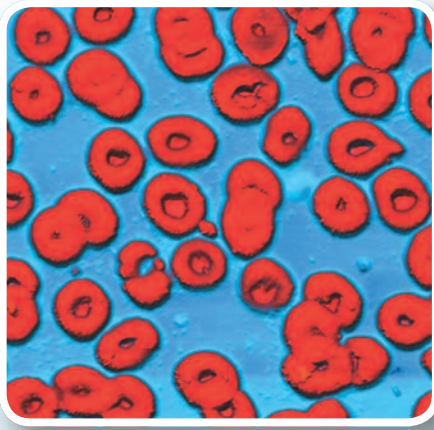
EDUCATION



Universal head



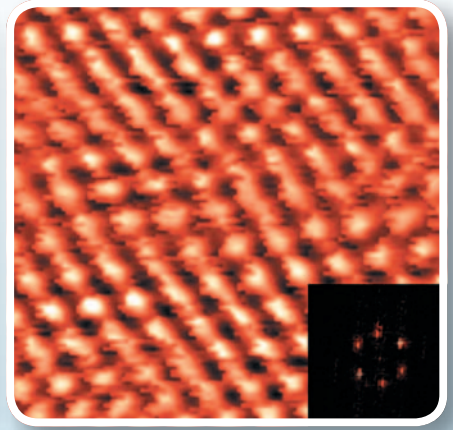
Classes equipped with SOLVER Nano



Blood cells. Scan size 50x50 μm .
Semicontact mode



Microstructure. Scan size 30x30 μm .
Semicontact mode



Atomic lattice of HOPG. Scan size 4x4 nm.
Contact lateral force mode

Specifications:

Scanning:	By sample, range 100 × 100 × 10 μm (Closed Loop)
Sample positioning:	Manual, range 5 × 5 mm
Sample weight:	Up to 40 g
Sample size:	Diameter up to 25 mm, Thickness up to 10 mm
Approach system	By sample, motorized, range 15 mm
Optical control:	Embedded USB camera
Scanning Tunneling Microscopy (STM):	<ul style="list-style-type: none"> • Constant Current • Constant Height • I(Z) spectroscopy • I(V) spectroscopy
Atomic Force Microscopy (AFM)	<ul style="list-style-type: none"> • Topography imaging • Phase imaging • Magnetic-force microscopy • Electrostatic force microscopy • Spreading resistance imaging • Kelvin probe microscopy • Force-distance curves • Amplitude-distance curves • I(V) spectroscopy
AFM Lithography	<ul style="list-style-type: none"> • Force lithography • Current lithography • Vector\raster lithography