



Nanosurf NaioAFM

Your All-in-One AFM for Nanoeducation & Small Samples

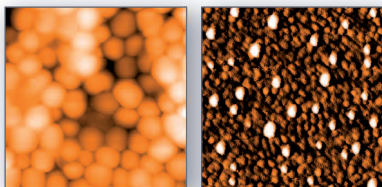
- Compact, Easy to use, Affordable
- All you need in a single device



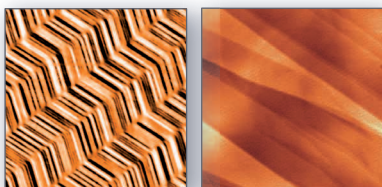
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Microscopy Made Easy

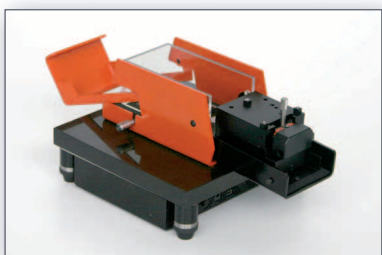
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Particle size. Left: Staphylococcus aureus bacterial sample. Scan size 5.0 μm . Right: Gold colloids. Scan size 1.5 μm .



Data storage. Digital backup tape with magnetically stored data, as revealed by MFM. Scan size 50 μm .
Atomic steps. HOPG. Single layer height is 0.34 nm. Image Z-range is 3.5 nm. Scan size 3.2 μm .



Cantilever exchange. Quick and simple cantilever exchange with the NaioAFM's flip-over scan head design and cantilever exchange tools.



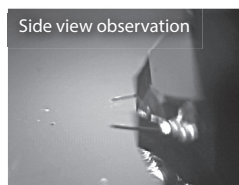
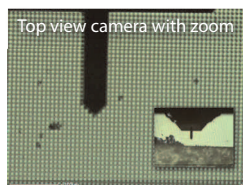
Setup. A NaioAFM and a PC are all you need!

Your All-in-One AFM for Nanoeducation & Small Samples

The NaioAFM is the ideal atomic force microscope for nanoeducation and small sample measurements. This all-in-one AFM system provides solid performance and easy handling, with a price tag and footprint that fit anyone and any place.

Key Features & Benefits

- Integrated controller, XY-table, airflow shielding, and vibration isolation
- High resolution top view camera and side view sample observation built in
- Feature-complete: All standard operating modes available
- Simple cantilever exchange: no laser or detector adjustment required
- No system setup needed: just plug into your PC and start the software
- User-friendly software wizards quickly prepare measurement parameters



NaioAFM Specifications	
Max. scan range / scan height (resolution) ⁽¹⁾	70 μm (1.0 nm) / 14 μm (0.2 nm)
Static / Dynamic RMS Z-noise	typ. 0.4 nm (max. 0.8 nm) / typ. 0.3 nm (max. 0.8 nm)
Max. sample size / height	12 mm / 3.5 mm
Max. sample stage positioning range	12 mm travel in X and Y
Top view camera	3x3 mm FOV, 4x digital zoom, 2 μm optical resolution, 2048x1536 pixels, in-axis LED illumination
Side view observation	5x5 mm FOV, variable LED illumination (optional camera : 2x2 mm FOV, 1280x1024 pixels)
Approach	4 mm linear motor, continuous or step-by-step approach
Imaging modes	Static Force, Dynamic Force, Phase Contrast, MFM, EFM
Advanced imaging modes ⁽²⁾	Spreading Resistance, Force Modulation
Spectroscopy modes	Force-Distance, Amplitude-Distance, Voltage-Distance
Advanced spectroscopy modes ⁽²⁾	Current-Voltage, Stop by end value, Fwd & Bwd pause
Lithography modes	Static Force, Dynamic Force, Oxidation
Advanced lithography modes ⁽²⁾	Draw and load CAD vector graphics, Bitmap images
Remote control/add-ons ⁽²⁾	Windows scripting interface: compatible with LabView, C#, Visual Basic, MatLab, and other software...
Operating system/PC requirements	Windows XP/Vista/7 (32/64-bit), 1280x1024 px screen resolution, Core2 CPU, 4 GB RAM, 1 free USB 2.0 port
Size (LWH) / Weight / Power	204x204x160 mm / 6.5 kg / 100-240 VAC (30 W)

(1) Manufacturing tolerances are $\pm 10\%$
(2) Naio Advanced Modes Option required



Compatible Options and Accessories
NaioAFM Side View Camera, Naio Advanced Modes Option, Isostage Adapters for Naio, AFM Extended Sample Kit

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