

ezAFM™



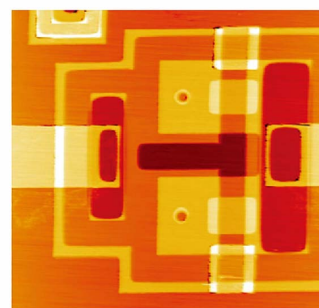
海纳光学

电话: 0755-84870203

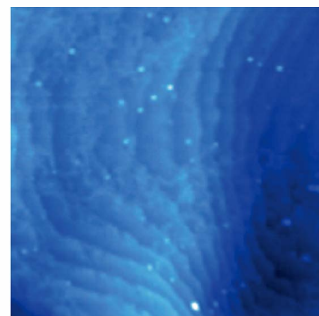
邮箱: sales@highlightoptics.com

Atomic Force Microscope for Research, Education and QC Applications

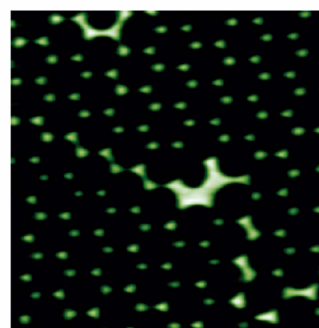
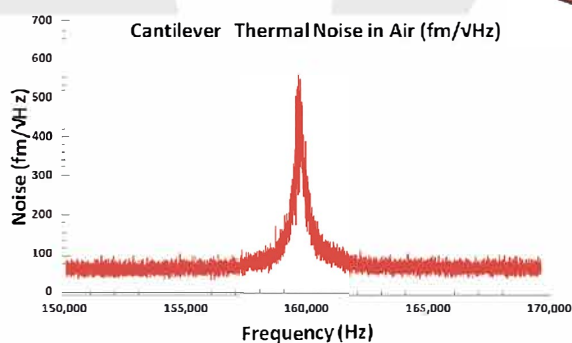
- Innovative technology with superior performance
- Setup under an hour
- Compact
- Portable



SQUID Sensor 45 x 45 μm



Etched Mica 2 x 2 μm



Polystyrene Lithography
10 x 10 μm

Technical Specification



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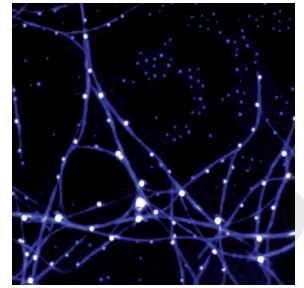
- Alignment free cantilevers, commercially available
- 120x120x40μm or 40x40x4μm scan range
- Contact, Dynamic/Phase Imaging, Lateral Force & MFM modes
- 65fm/√Hz noise floor
- 2μm resolution integrated optical microscope
- 8MP, 390x230μm FOV, 3264x2448 pixels, 30fps, video camera
- 24 Bit ADCs/DACs
- Digital Feedback with FPGA/DSP
- Sample Size, 10x10x5mm (Configurable or unlimited sample size)
- USB interface
- Unlimited user license
- Free software upgrades for lifetime
- Side view camera

Extended Imaging Options

- Scratching Lithography
- Scanning Tunneling Microscopy (ezSTM)
- Liquid Cell

Accessories

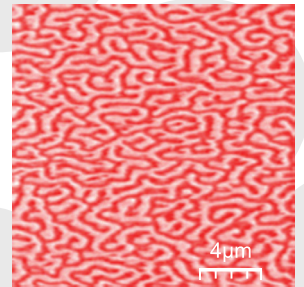
- Signal Access Module
- 40mm stroke XY motorized sample positioner
- 2mm stroke XY manual sample positioner



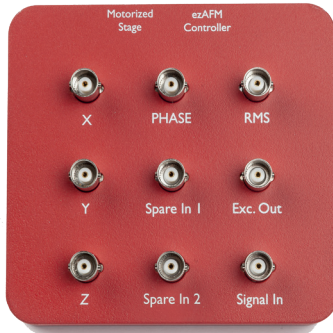
Carbon Nanotubes with Polymer 4 x 4 μm



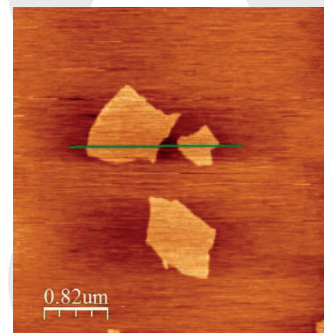
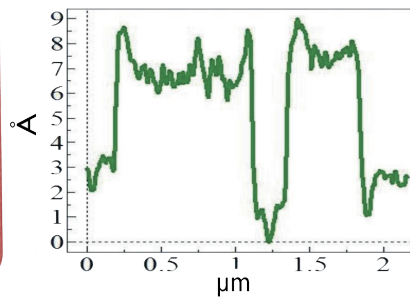
Aqua Head
Liquid Scanning with ezAFM



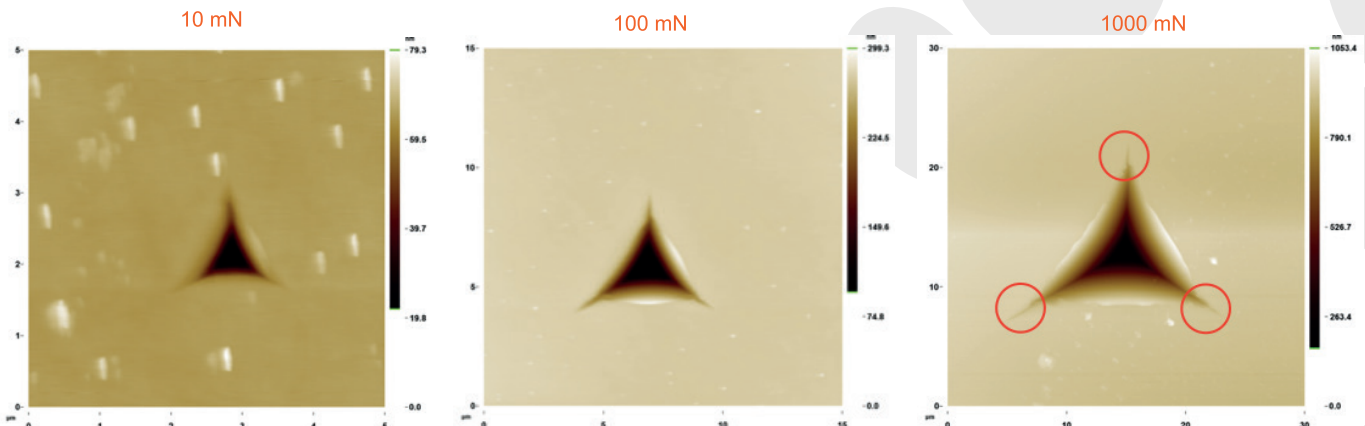
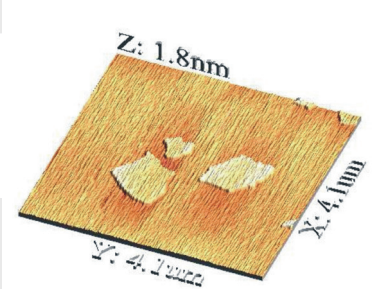
MFM image of Co-Pt multilayers



Signal Access Module



Single Layer Graphene



Nanointendation marks on Aluminium surface

*Every system will include one of the standard imaging modes. Further modes can be added optionally.



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ezAFM⁺

Better Functionality, The Same Affordability

The ezAFM⁺ is for student laboratories, high schools, nanotechnology education and basic research with its compact, highly stable, user-friendly design.



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Technical Specifications

- Alignment free cantilevers, commercially available
- 120x120x40 μ m or 40x40x4 μ m scan range
- Contact, Dynamic/Phase Imaging, Lateral Force & MFM modes
- 65fm/ $\sqrt{\text{Hz}}$ noise floor
- 2 μ m resolution integrated optical microscope
- 8MP, 390x230 μ m FOV, 3264x2448 pixels, 30fps, video camera
- 24 Bit ADCs/DACs
- Digital Feedback with FPGA/DSP
- Sample Size, 10x10x5mm (Configurable or unlimited sample size)
- USB interface
- Unlimited user license
- Free software upgrades for lifetime
- Side view camera

Extended Imaging Options

- Scanning Tunneling Microscopy (ezSTM)
- Liquid Cell
- Electrochemical Cell
- Heating / Cooling Stage (from -30°C to 250°C)

Accessories

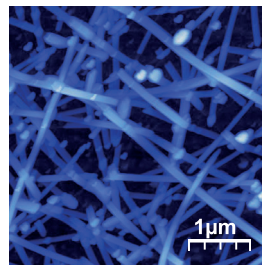
- Signal Access Module
- 38mm stroke XY motorized sample positioner
- 2mm stroke XY manual sample positioner



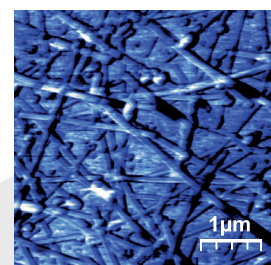
XY Motorised Stage

*Optional accessories are available for all ezAFM models.

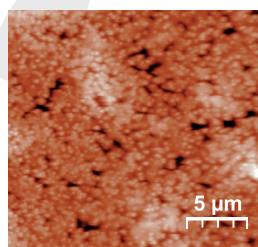
** XY motorized sample positioner with 1 μ m



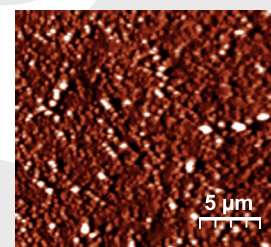
Silver Nanorods



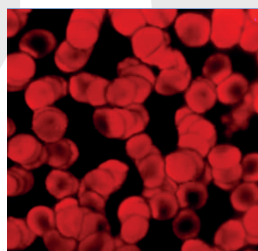
Work function in KPFM mode



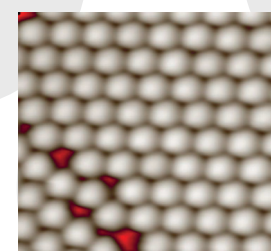
Vertical Carbon Nanotubes in Polymer Matrix



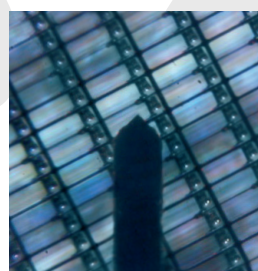
Current image in SSRM Mode



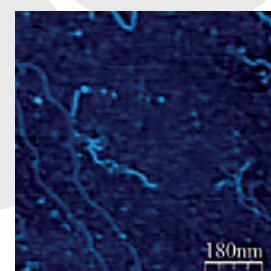
Blood Cell 40 x 40 μ m



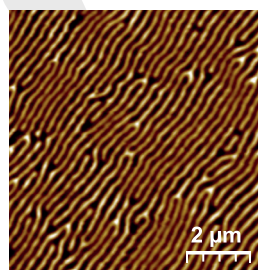
Polystyrene 5 x 5 μ m



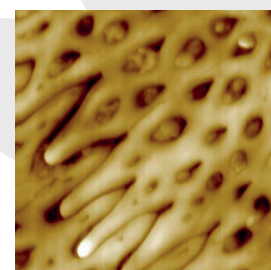
Video Microscope Image of Cantilever



Plasmid DNA



MFM image of FePtSi Film



Snake Skin 3.5 x 3.5 μ m