



Nanosurf Easyscan 2 STM

Your Easy Entry into the World of Atoms

- Quick atomic resolution
- Extremely easy to use
- Compact and robust design
- Thousands of students have proven its reliability

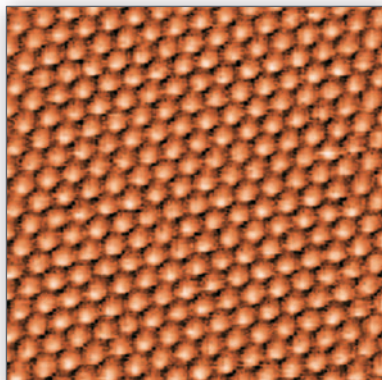


swiss
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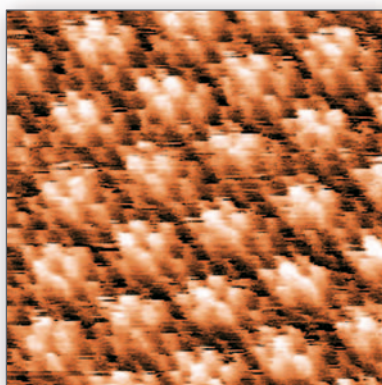


Microscopy Made Easy

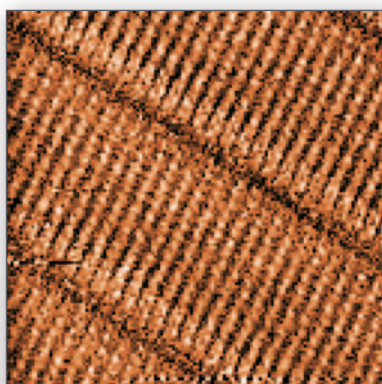
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Atomic lattice of graphite (HOPG). Image size: 3 nm × 3 nm.



Charge density waves on TaS₂. Quantum-mechanical effects directly measured. Image size: 5 nm × 5 nm.



Dotriacontane thin film. Organic layer, courtesy of Dr. J. Francis Wolf, HU-Berlin, Germany. Image size: 12.5 nm × 12.5 nm.

Your Easy Entry into the World of Atoms

The first scanning tunneling microscope (STM) was developed in 1983 by Gerd Binnig and Heinrich Rohrer at the IBM research laboratory in Rüschlikon, Switzerland, making atoms visible to a small group of specialists. The Easyscan 2 STM goes one step further and makes the world of atoms accessible to everyone!

Around the globe, well over a thousand Nanosurf STMs have become a crucial part of research and nano-education in Physics, Chemistry, as well as Materials Science:

- Teachers appreciate the ease of use of the Easyscan 2 STM, allowing them to offer quick and hassle-free classroom demonstrations to their students.
- Students are motivated by the rapid successes achieved when using the Easyscan 2 STM themselves during hands-on training in practical nanoscience.
- Researchers can expand the possibilities of their Easyscan 2 STM and perform complex measurements using the optional Signal Module A.
- Everyone can enjoy safe handling of the system, since STM tips are simply cut from Pt/Ir wire without requiring etching in hazardous substances, and because everything operates at low voltages.

Easyscan 2 STM Scan Head Specifications				
Scan head type:	500 nm	1 μm	500 nm LC	1 μm LC
Maximum scan range ⁽¹⁾	500 nm	1.0 μm	500 nm	1.0 μm
Maximum Z-range ⁽¹⁾	200 nm			
Drive resolution in Z ⁽²⁾	3 pm			
Drive resolution in XY ⁽²⁾	7.6 pm	15 pm	7.6 pm	15 pm
Current setpoint	0.1–100 nA in 25 pA steps		0.02–20 nA in 5 pA steps	
Imaging modes	Constant Current (Topography), Constant Height (Current)			
Spectroscopy modes	Current–Voltage, Current–Distance			
Tip voltage	± 10 V in 5 mV steps			
Sample approach	Stick-slip motor			
Sample size	Max. 10 mm diameter			
<small>(1) Typical values</small>				
<small>(2) Calculated by dividing the maximum range by 16 bits</small>				

Compatible Controllers, Options and Accessories
Easyscan 2 Controller, Acoustic Enclosure 300 or 500, Environmental Control Chamber, Isostage, STM Basic Sample Kit.



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