

- *To obtain a three-dimensional image of the surface and its physical characteristics*

SCANNING PROBE MICROSCOPE **SPM-9700HT**



Scanning probe microscopy (SPM) is one of the powerful modern methods for studying the shape and local properties of the surface of a solid body.

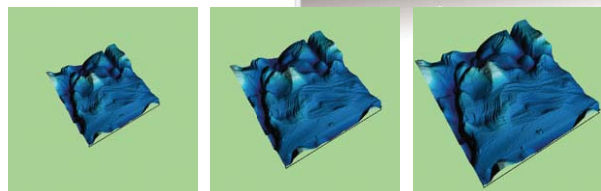
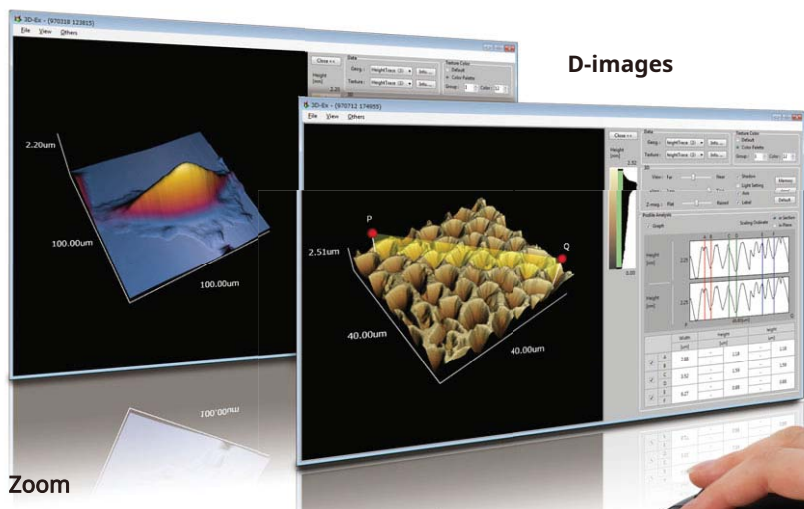
Using a scanning probe microscope, it is possible to obtain a digital three-dimensional image of an atomic lattice, a living cell, an integrated circuit, a polymer structure, etc.



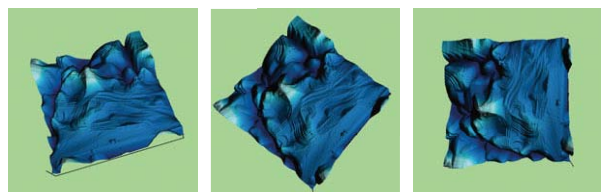
Change sample without turning off the laser and removing the cantilever

Use the mouse to zoom and rotate images freely or change the Z-axis magnification.

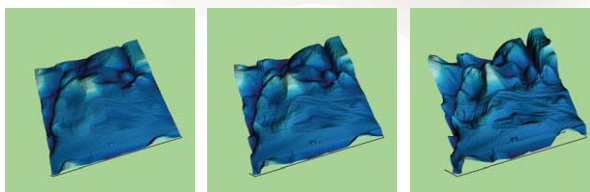
This allows the obtained data to be presented in a variety of ways, confirming this data in real time.



Rotation



Zoom in on the Z axis



SPM-9700HT Observation Modes

■ standard configuration

□ optional mode

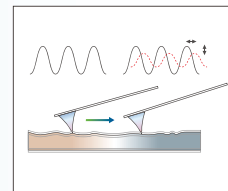
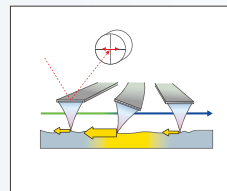
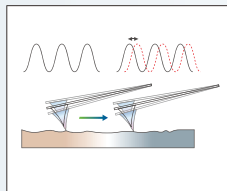
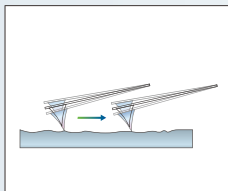
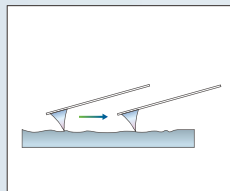
■ contact mode

■ dynamic phase

■ phase display

■ lateral force microscopy

■ force modulation



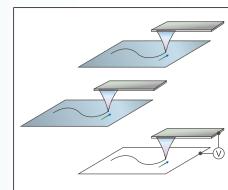
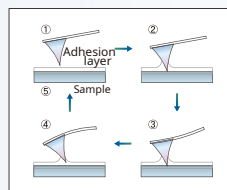
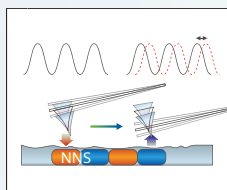
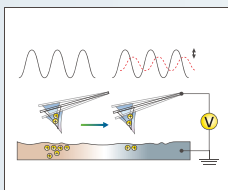
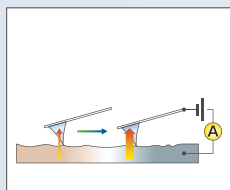
□ tunneling microscopy

□ Kelvin probe

□ magnetic force microscopy

■ power curve
□ mapping on force curves

□ vector scanning



Environmentally controlled chamber



□ Chamber SN-II
(without a turbo-molecular pump)

□ Chamber CH-III
(with a turbo-molecular pump)

□ Temperature and humidity control unit

□ Sample heating and cooling module

□ Gas injection module

□ Sample irradiation module

TECHNICAL SPECIFICATIONS

Permission	X, Y: 0.2 nm; Z: 0.01 nm
Scanning ranges	10 μm x 10 μm x 1 μm (standard); 30 μm x 30 μm x 5 μm (option); 125 μm x 125 μm x 7 μm (option); 55 μm x 55 μm x 13 μm (option); 2.5 μm x 2.5 μm x 0.3 μm (option)
Sample dimensions	$\varnothing$ 24 mm x 8 mm
Changing the sample	Without turning off the laser and removing the cantilever
Movement along axis Z	10 mm



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«ShimUkraine» LLC - General distributor of analytical equipment
SHIMADZU in Ukraine and the Republic of Moldova

Address: Dmytra Doroshenko street, 18, office 429, Kyiv, 01042, Ukraine

Phone/fax: (044) 284-24-85; 284-54-97; 390-00-23

E-mail: shimukraine@gmail.com

Internet: www.shimadzu.com.ua

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