



**Nanovie™**  
Always at hand

## Nanovie STM Educa & Auto Tip Maker

Nanoscale Microscope for 3D Surface Imaging & Experiments



### Made Possible for Everyone

Nano world exploration is now open for all the students from junior high to graduate schools.

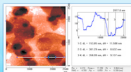


Image: 2500X2500 nm  
Hole depth ~ 10 nm  
Diameter ~ 300 nm

HOPG surface thermally oxidised by rapid heat processing

### Applications

Physics, Chemistry, Surface Materials  
Nanotech, Semicon, Optoelectronics  
Pretest & Training for UHV STM  
Innovative & DIY Experiments

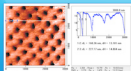


Image: 3000X3000 nm  
Hole depth ~ 13 nm  
Diameter ~ 160 nm

Hole array deposited with ultra-thin gold film



### Nanovie Auto Tip-Maker

producing 6 probe tips every 15 minutes with one-button operation

### Compatible with UHV STM



Tip shoulder



Apex CR ~ 33 nm

Curvature Radius : 50 ~ 120 nm

Computer free. Monitoring free.

<http://nanovietech.com>

[info@nanovietech.com](mailto:info@nanovietech.com)

**Nanovie STM Lepto**  
Model No: NSTL-002

**Machine and Scan Module:**

- Max. XY Scan Range: ~ 0.8  $\mu\text{m}$  & ~ 2.5  $\mu\text{m}$  Scanner Heads
- Max. Z Scan Length: ~ 1  $\mu\text{m}$
- Max. XY Resolution: < 1.0 nm
- Max. Z Resolution: < 0.1 nm
- Automatic Tip-to-Sample Approach
- Constant Current & Constant Height Scan Modes
- STS / I-V Curve Measurement
- In-liquid Scan
- Lithography
- Max. Image Size: 550 pt X 550 pt

**Electronic Controller:**

- 16-bit A/D & D/A Converters
- 10-V Scan Drive Voltage

**Software**

- N-terface Pro: Scan Controlling Interface
- N-mage: Image Processing & Data Analysis

**Accessories:**

- Magnetic Tip Holder \* 1
- Magnetic Sample Holder \* 1, Magnetic Liquid Cell \* 1
- Extension Tube (for Large Area Scan) \* 1
- Hand-carry Box \* 1

**Optional:**

- Tungsten Tips for STM Scan: 24 Pcs / Box
- Insulated Tungsten Tips for STM In-liquid Scan: 24 Pcs / Box
- Nanovie Auto Tip Maker
- Samples for STM Scan: DVD Grooves, Blu-ray Disc Holes, Oxidized HOPG.

**Computer Requirement:** (Computer not included)

- Windows 2000, XP, Vista, 7, 8
- Minimum CPU: Intel Atom
- Two USB Ports

**Nanovie STM Educa**  
Model No: NSTE-006

**Machine and Scan Module:**

- Max. XY Scan Range: ~ 1.2  $\mu\text{m}$  & ~ 3.6  $\mu\text{m}$  Scanner Heads
- Max. Z Scan Length: ~ 1  $\mu\text{m}$
- Max. XY Resolution: ~ 3.0 nm
- Max. Z Resolution: ~ 0.1 nm
- Constant Current Scan
- Manual Tip-to-Sample Approach
- Max. Image Size: 550 pt X 550 pt

**Electronic Controller:**

- 16-bit A/D & D/A Converters
- 10-V Scan Drive Voltage

**Software**

- N-terface: Scan Controlling Interface
- N-mage: Image Processing & Data Analysis

**Accessories:**

- Magnetic Tip Holder \* 1
- Magnetic Sample Holder \* 1
- Extension Tube (for Large Area Scan) \* 1
- Camera for Tip Approach Monitoring \* 1
- Plastic Case \* 1

**Optional:**

- Tungsten Tips for STM Scan: 24 Pcs / Box
- Nanovie Auto Tip Maker
- Samples for STM Scan: DVD Grooves, Blu-ray Disc Holes, Oxidized HOPG.
- Liquid Cell & Insulated Tungsten Tips for In-Liquid Imaging (May not be optimised in terms of manual tip-to-sample approach.)

**Computer Requirement:** (Computer not included)

- Windows 2000, XP, Vista, 7, 8
- Minimum CPU: Intel Atom
- Two USB Ports