

#### Nanovie STM Lepto

Nanoscale Microscope for 3D Imaging, Spectroscopy & Lithography









Groove cycle ~750 nm & height ~25 nm Particle diameter ~25 nm & height ~1 nm





30 mV / 5 nA

#### Major Features

### In-liquid imaging







Lithography & in-itu rescan

Width: ~ 18 nm Depth: ~ 3 nm

# **Nanovie STM Lepto**

Model No: NSTL-002

### Machine and Scan Module:

- Max. XY Scan Range: ~ 0.8 μm & ~ 2.5 μm Scanner Heads
- Max. Z Scan Length: ~ 1 μm
- Max. XY Resolution: < 1.0 nm</li>
- Max. Z Resolution: < 0.1 nm</li>
- 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 μm & ~ 3.6 μm Scanner Heads
- Max. Z Scan Length: ~ 1 μm
- 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