Opto-Edu (Beijing) Co., Ltd.

Opto Edu A62.4501 Scanning Microscope Curve Basic Level Atomic Force

Basic Information

Place of Origin: China
Brand Name: OPTO-EDU
Certification: CE, Rohs
Model Number: A62.4501
Minimum Order Quantity: 1pc

Price: FOB \$1~1000, Depend on Order Quantity
 Packaging Details: Carton Packing, For Export Transportation

• Delivery Time: 5~20 Days

Payment Terms:
 L/C, T/T, Western Union

Supply Ability: 5000 pcs/ Month



Product Specification

• Work Mode: "Contact Mode Tapping Mode Optional

Friction Mode Phase Mode Magnetic Mode

Electrostatic Mode"

• Current Spectrum Curve: "RMS-Z Curve F-Z Force Curve"

XY Scan Range: 20×20um
XY Scan Resolution: 0.2nm
Z Scan Range: 2.5um
Y Scan Resolution: 0.05nm
Scan Speed: 0.6Hz~30Hz
Scan Angle: 0~360°

• Sample Size: "Φ≤90mm H≤20mm"

• Shock-Absorbing Design: "Spring Suspension Metal Shielding Box"

• Optical Syestem: "4x Objective Resolution 2.5um"

Output: USB2.0/3.0
 Software: Win XP/7/8/10

Basic Level Atomic Force Microscope

Basic Level, Separate controller & main body design, with Contact Mode, Tapping Mode, 4x Objective

The scanning probe and the sample stage are integrated, and the anti-interference ability is strong

- 2. Precision laser and probe positioning device, it is simple and convenient to replace the probe and adjust the spot;
- 4X objective lens optical positioning, no need to focus, real-time observation and positioning of the probe sample scanning area

The spring suspension shockproof method is simple and practical, and has strong anti-interference ability



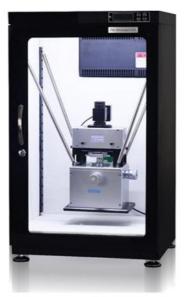
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A62.4501

Basic Level Atomic Force Microscope (AFM)





Product Details

- The laser detection head and the sample scanning stage are integrated, the structure is very stable, and the anti-interference is strong
- ◆ Precision probe positioning device, laser spot alignment adjustment is very easy
- The single-axis drive sample automatically approaches the probe vertically, so that the needle tip is perpendicular to the sample scan
- The intelligent needle feeding method of motor-controlled pressurized piezoelectric ceramic automatic detection protects the probe and the sample
- Automatic optical positioning, no need to focus, real-time observation and positioning of the probe sample scanning area
- ◆ Spring suspension shockproof method, simple and practical, good shockproof effect
- Metal shielded soundproof box, built-in high-precision temperature and humidity sensor, real-time monitoring of the working environment
- Integrated scanner nonlinear correction user editor, nanometer characterization and measurement accuracy better than 98%

Application Case









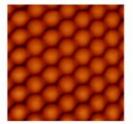
High-order graphite/scanning range 5nm×5nm



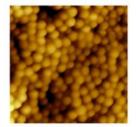
Gold clusters/scanning range 0.5µm×0.5µm



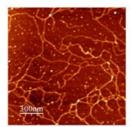
Polysaccharide 10x10um



Polystyrene ball 10x10um

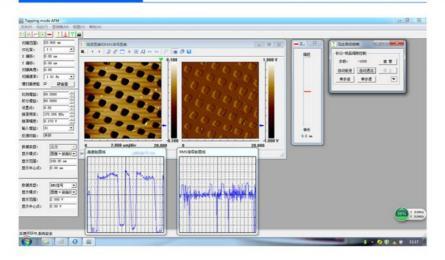


Polystyrene ball 5x5um



Polysaccharide 1.5x1.5um

Product Details





Specification













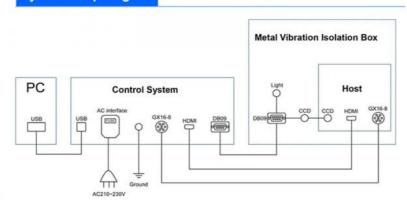
| | Tapping Mo | ode | Contact Mode | | Contact Mode Tapping Mode | 1 | Contact Mode | | |
|------------------------|--------------------------------------|---------------------|----------------------------------|--------------|--|-----------------------------------|---|---------------------------|--|
| | Optional | Ontional | | Tapping Mode | | lap | Tapping Mode | | |
| | Contact Mo | ode | Optional | | Optional | Opt | ional | | |
| Work Mode | Friction Mo | | Friction Mode | | Friction Mode | | Friction Mode | | |
| | Phase Mod | le | Phase Mode | | Phase Mode | Pha | Phase Mode | | |
| | Magnetic M | | Magnetic Mode | | Magnetic Mode | ľ | Magnetic Mode | | |
| | Electrostati | | Electrostatic Mode | | Electrostatic Mod | de Elec | Electrostatic Mode | | |
| Current Spectrum | RMS-Z Cur | ve | RMS-Z Curve | | RMS-Z Curve | DMG | 2 7 Curvo | | |
| Curve | Optional | | F-Z Force Curve | | F-Z Force Curve | | RMS-Z Curve F-Z Force Curve | | |
| our vo | F-Z Force (| Curve | | | 210100 00110 | | . 2 . 6/66 64.16 | | |
| XY Scan Range | lange 20×20um | | 20×20um | | 50×50um 50×5 | | 50um | | |
| XY Scan | 0.2nm | | 0.2nm | | 0.000 |).2nm 0.2nm | | | |
| Resolution | esolution | | | | | | 111 | | |
| Z Scan Range | * | | 2.5um | | 5um 5um | | | | |
| Y Scan Resolutio | n 0.05nm | | 0.05nm | | 0.05nm | | | ım | |
| Scan Speed | 0.6Hz~30Hz | | 0.6Hz~30Hz | | 0.6Hz~30Hz | | | | |
| Scan Angle | 0~360° | | 0~360° | | | | ~360° | | |
| Sample Size | Φ≤90mm | | Φ≤90mm | | Φ≤90mm | Φ≤90mm | | | |
| | H≤20mm | | H≤20mm | | H≤20mm | | 0mm | | |
| XY Stage Moving | 15×15mm | | 15×15mm | | 25×25um | 25×25um | | | |
| Shock-Absorbing | Spring Suspens | | Spring Suspension | | Spring Suspension | - | | | |
| Design | | | Metal Shielding Box | | Metal Shielding E | | Eyepiece 10x | | |
| | | | | | | Infinity Plan LWD APO 5x10x20x50x | | | |
| | 4x Objectiv | е | 4x Objective Resolution 2.5um | | 10x Objective | | 5.0M Digital Camera 10" LCD Monitor, With Measuring LED Kohler Illumination | | |
| Optical Syestem | Resolution | | | | Resolution 1um | 10" | | | |
| | | | | | | LED | | | |
| | | | | | | | Coaxial Coarse & Fine Focusing USB2.0/3.0 | | |
| Output USB2.0/3.0 | | | USB2.0/3.0 | | | | | | |
| Software | Win XP/7/8 | /10 | Win XP/7/8/10 | | Win XP/7/8/10 | Win | XP/7/8/10 | | |
| Microscope Optical | | tical Micı | al Microscope Ele | | ectron Microscope | | Scanning Probe Microscope | | |
| Max Resolution (um) 0. | | 18 | | 0.00011 | | | 0.00008 | | |
| Oil immer | | | | lm | Imaging diamond carb | | Imaging high | high-order graphitic | |
| | | immersi | ersion 15000x I | | oms | | carbon atoms | | |
| | 1 | A | | | | | 1 | | |
| Remark | | | | | | | | | |
| | X | 874 | | S. | | | | | |
| | | 200 | | | | | | | |
| | | 300 | 904 | | | | | | |
| Probe-Sample Int | eraction | | Measure Signal | | | Informat | tion | | |
| · | | | | | | | | | |
| Force | | Electrostatic Force | | | Shape | | | | |
| Tunnel Current | | Current | | | Shape, Conductivity | | | | |
| Magnetic Force | | Phase | | | Magnetic Structure charge distribution | | | | |
| Electrostatic Forc | е | | Phase | | | charge | JISTIDUTION | | |
| Resolution | | | | | ing Temperation | Damge to | o Sample | Inspection Depth | |
| SPM Atom | Level 0.1nm | | Normal, Liquid, Vacuum | | Room or Low Temperation | | | 1~2 Atom Level | |
| TEM I | Point 0.3~0.5nm Lattice 0.1~0.2nm | | High Vaccum | | Room Temperation | | | Usually <100nm | |
| SEM 6-10n | | | High Vaccum | | Room Temperation | | | 10mm @10x 1um @10000x | |
| | | + | | | | - | | 2 . 2 . 2 . 2 . 2 . 2 . 2 | |

System Diaphragm

Super High Vaccum

Atom Level 0.1nm

FIM



30~80K

Damge

Atom Thickness

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