



## Scanning Electron Opto Edu Microscope A63.7001 SE+BSE 150000x

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: OPTO-EDU
- Certification: CE, Rohs
- Model Number: A63.7001
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~100000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month



### Product Specification

- Resolution: 6nm@30KV(SE)
- Magnification: 150000x
- Electron Gun: Pre-Centered Tungsten Filament Cartridge
- Accelerating Voltage: Accelerating Voltage 1~15KV, Continuous Adjustable, Adjust Step 1KV
- Max Specimenn:  $\Phi 50 \times H35\text{mm}$
- Vacuum System: Full Auto Control High Vaccum System, Vaccuming Time <2 Minutes
- Working Distance: 5-35mm
- Condenser: Built-in Condenser No Need Manual Adjust Aperture (LaB6 Optional)
- Highlight: **scanning electron opto edu microscope, 150000x opto edu microscope**



### More Images



## Tungsten Filament Scanning Electron Microscope, SE+BSE, 150000x

150000x Magnification With Detector SE+BSE+CCD, Optional EDS  
Standard X/Y Motorized Working Stage, Optional Five Axes X/Y/Z/R/T  
Built-in Condenser No Need Manual Adjust Aperture (LaB6 Optional)  
High Vacuum System With Mechanical Rotary Pump To Get Vacuum In <2 Minutes  
One Key Auto Focus, Auto Brightness & Contrast Adjust, No Need Shock Absorbing Table

### A63.7001

### Desktop Tungsten Filament Scanning Electron Microscope (SEM) SE+BSE, 150000x



## Product Details

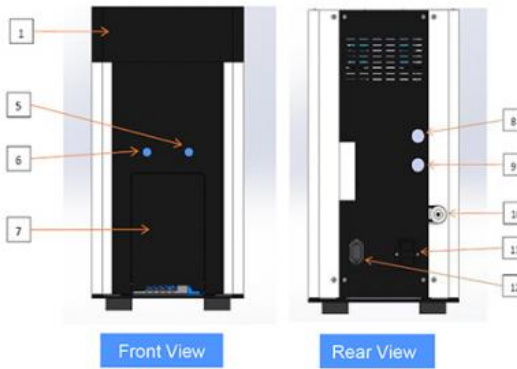
Scanning Electron Microscopy (SEM) is an observational means between Transmission Electron Microscopy (TEM) and optical microscopy.

It scans the sample with a narrowly focused high-energy electron beam, and excites various substances through the interaction between the beam and the matter. The information is collected, amplified, and re-imaged to achieve the purpose of characterizing the microscopic morphology of the material. Adhering to the design goals of convenient operation, fast imaging and stable performance, OPTO-EDU has independently developed a tungsten filament desktop scanner.

**A63.7001 Scanning Electron Microscope** has a fast scanning speed and a signal acquisition bandwidth of 10M, which can display samples smoothly and in real time in video mode. All operations can be completed with a mouse, and there is no need for complex steps such as centering the diaphragm. After focusing and eliminating astigmatism, you can directly take pictures. The host integrates high voltage and control system, small size, easy to move, no special environment for installation, just find a table, plug in power, you can start to work.



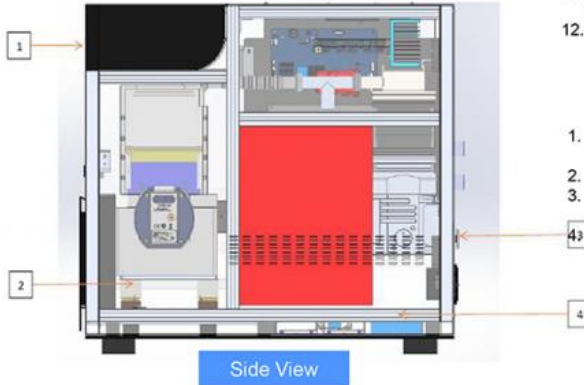
## Product Details



Front View

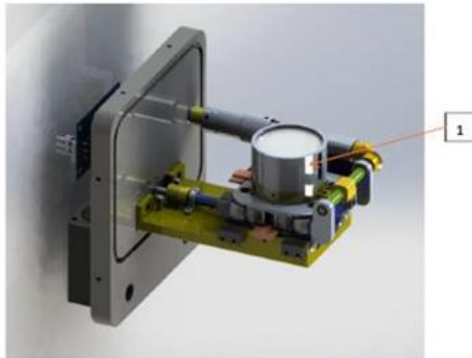
Rear View

1. Tungsten filament gun room, the inside is the gun head part.
2. Sample Room, used to put samples.
3. Molecular pump, used for vacuuming.
4. High voltage source.
5. Electron beam scanning indicator, lights up when scanning starts.
6. Power indicator, lights up when the device is powered on.
7. Sample Room Cover, can be pulled out for sample operation after the internal vacuum is vented to atmospheric pressure.
8. USB-1, used for communication with computer.
9. USB-2, used for communication with computer.
10. External mechanical pump vacuum hose interface.
11. 220V Mains power. Note that a ground wire is required.
12. External mechanical pump power supply



Side View

1. Tungsten filament gun room, the inside is the gun head part.
2. Sample Room, used to put samples.
3. Molecular Pump, Used For Vacuuming.
4. High Voltage Source



Sample Stage

Label 1 in the figure is the sample stage, that is, the position where the sample is placed.

1. Paste the sample on the sample holder with conductive adhesive.
2. Pay attention to the type and height of the sample. If the sample is powder, you need to blow off the excess powder with an air gun. The height of the sample should not exceed the lower edge of the sample compartment.
3. Put the sample holder into the sample stage, and note that the radial screws of the sample holder face into the sample compartment.
4. Tighten the fixing screws on the sample stage.

# Software Description

**Software Interface**

1. Initial Configuration Interface Button.  
2. Image Display Interface.  
3. Screen Printing Of Image Status.  
4. Ruler Display And Hide Buttons.  
5. Optical Navigation Part.  
6. General Operation Button.

The screenshot shows a software window titled "Software Interface". It features a dark background with a central area for image display and a right-hand sidebar with various controls. Callout 1 points to a blue checkmark icon at the top. Callout 2 points to the main image area. Callout 3 points to a small blue checkmark icon at the bottom. Callout 4 points to a ruler at the bottom. Callout 5 points to a vertical stack of icons on the right. Callout 6 points to a set of sliders in the right sidebar.

**Stake Out, Evacuate And Turn On High Pressure.**

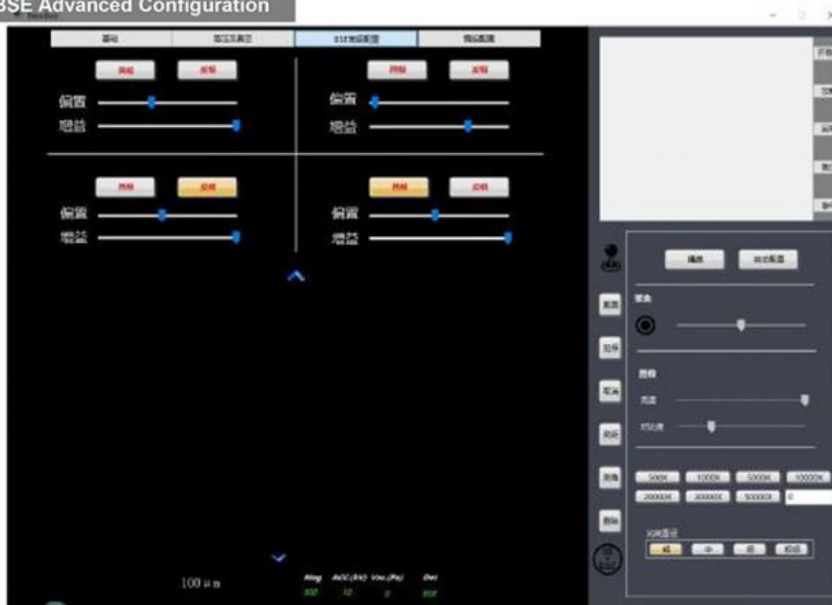
The screenshot shows a configuration window titled "Stake Out, Evacuate And Turn On High Pressure." It contains several input fields and buttons. The fields include "VOLTAGE" (set to 30.0 V), "CURRENT" (set to 0.01 W), and "PRESSURE" (set to 4 V). There are also buttons for "Stake Out", "Evacuate", and "Turn On High Pressure". The background shows the same software interface as the first screenshot, but the configuration window is the primary focus.

# Software Description

## Image Display Configuration And Adjustment

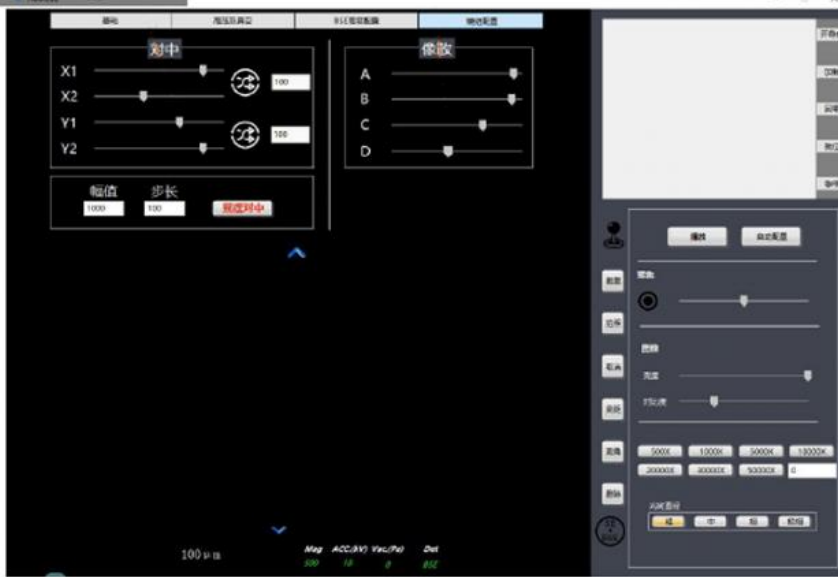


## BSE Advanced Configuration

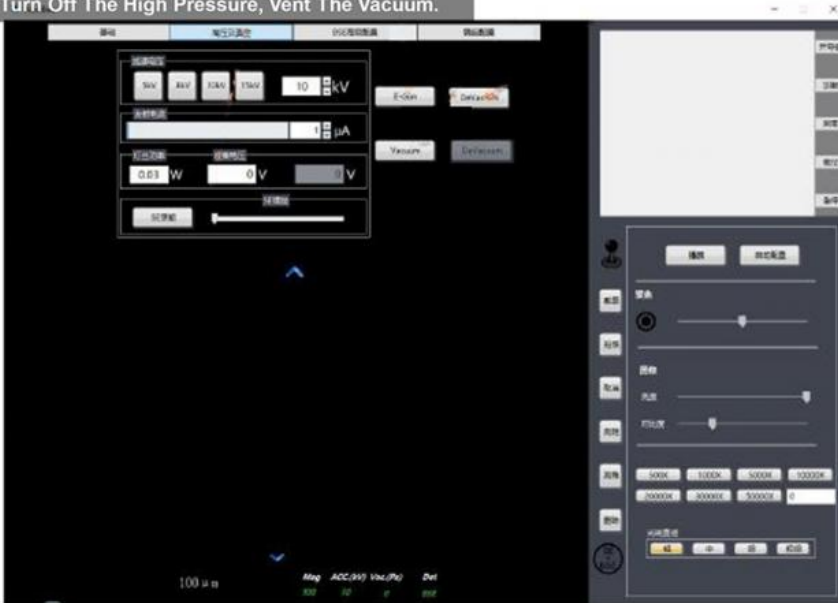


# Software Description

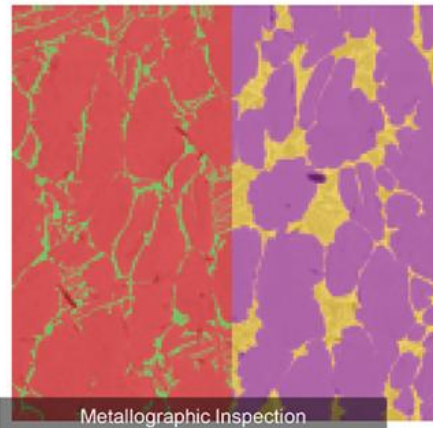
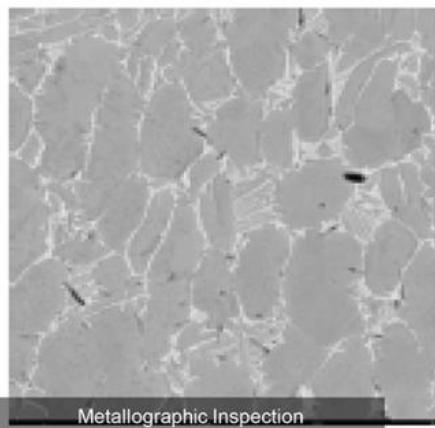
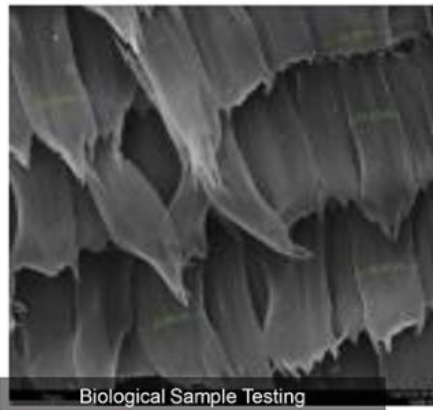
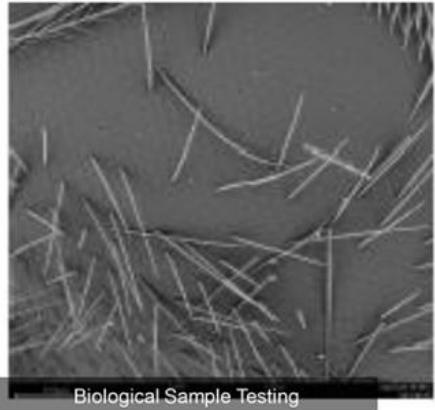
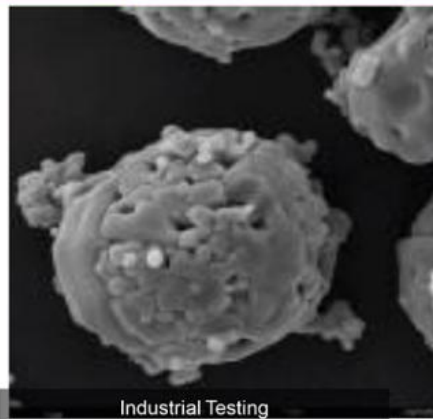
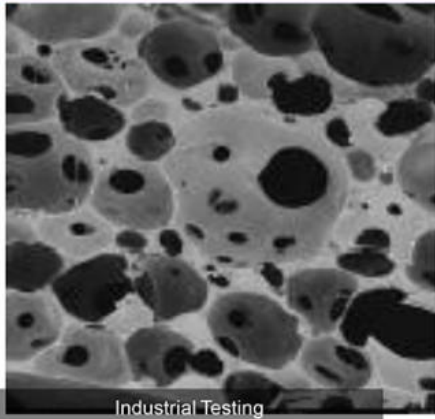
## Lens configuration



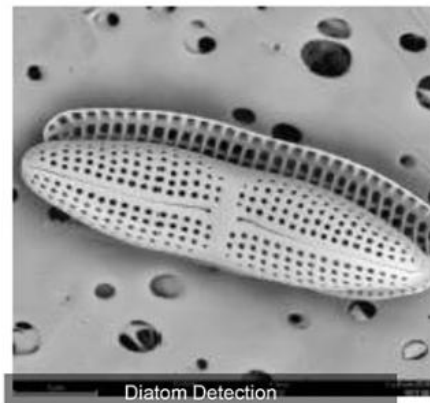
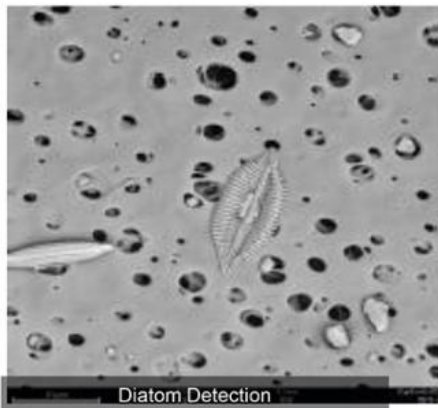
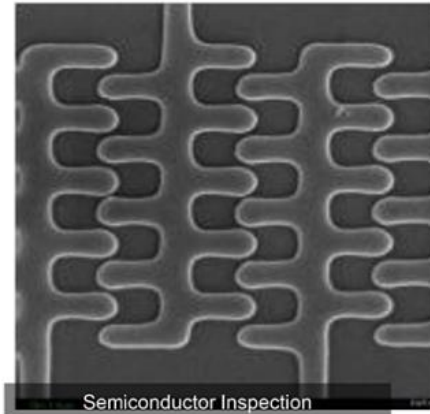
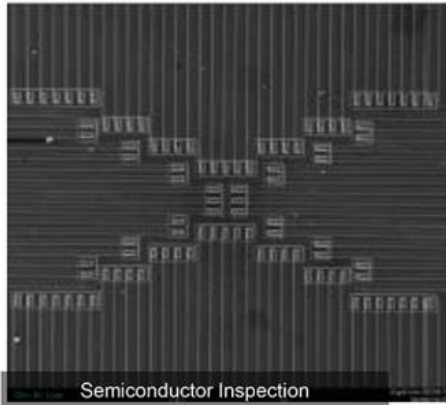
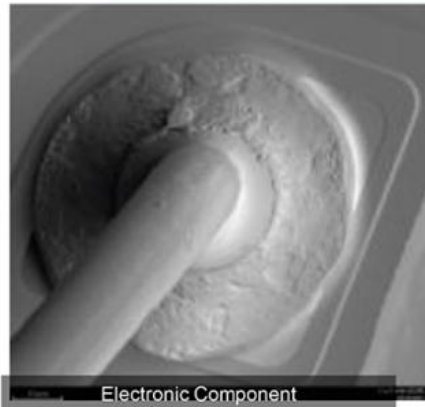
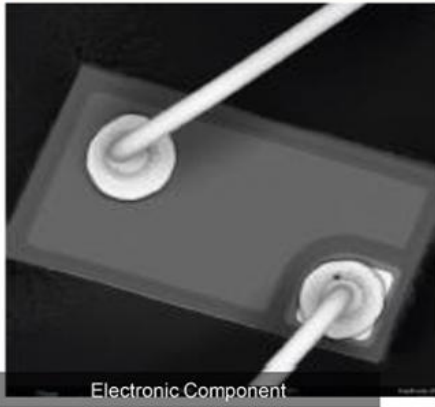
## Turn Off The High Pressure, Vent The Vacuum.



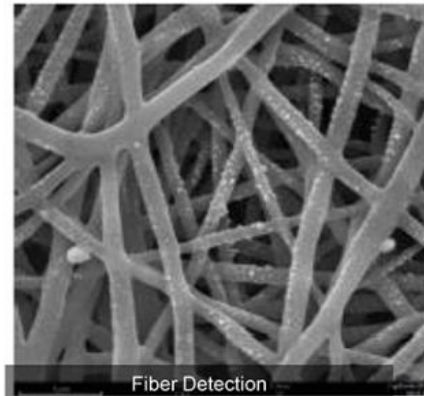
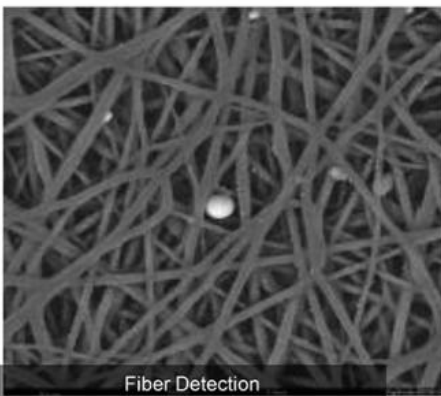
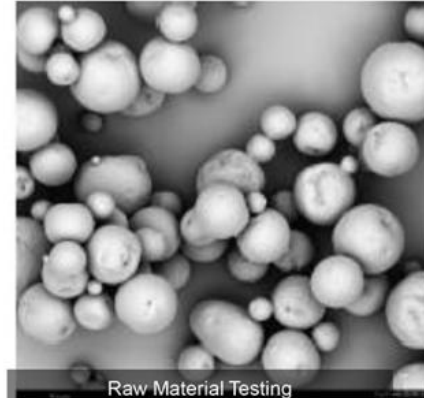
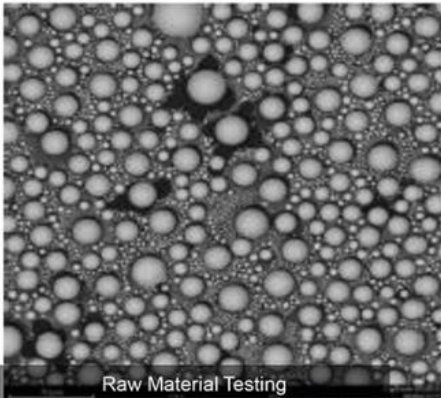
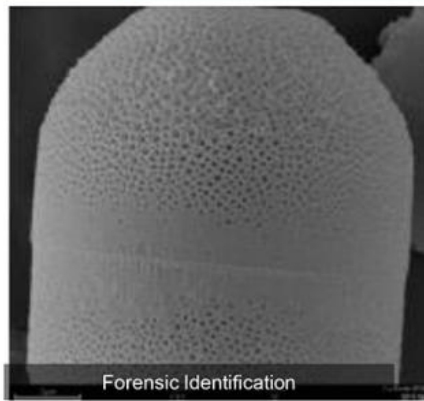
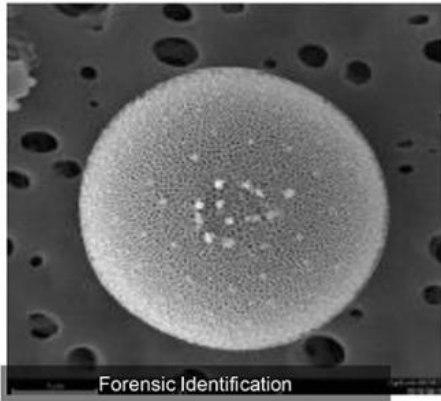
## Software Installation And Application



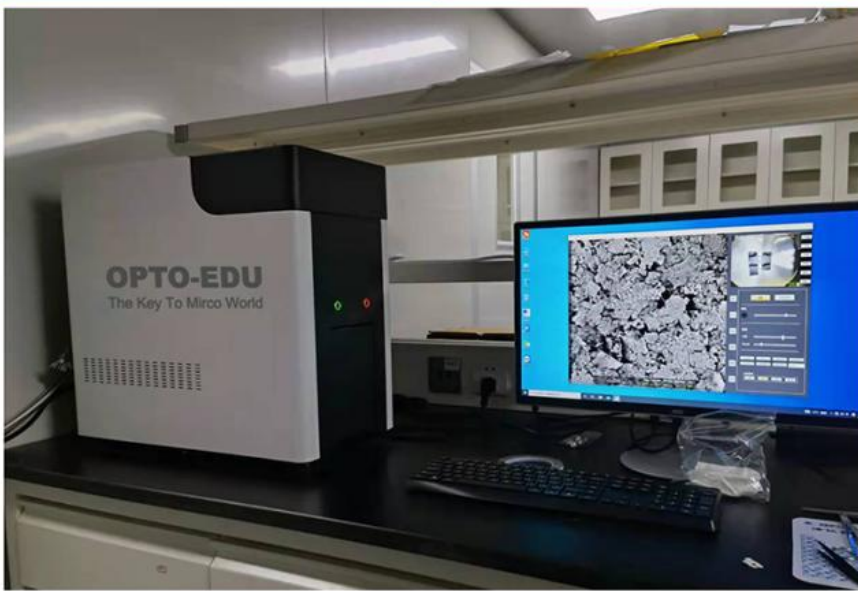
## Software Installation And Application



## Software Installation And Application

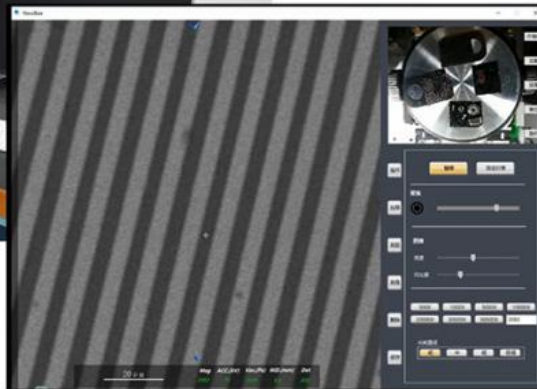


Real Photo From Customer



A63.7001

Tungsten Filament Scanning  
Electron Microscope,  
SE+BSE, 150000x



## Real Photo From Customer



A63.7001 Tungsten Filament Scanning Electron Microscope, SE+BSE, 150000x

## Specification



**A63.7001**  
Tungsten Filament Scanning  
Electron Microscope,  
SE+BSE, 150000x

A63.7001 Tungsten Filament Scanning Electron Microscope, SE+BSE, 150000x	
Resolution	6nm@30KV(SE)
Magnification	150000x
Electron Gun	Pre-Centered Tungsten Filament Cartridge

Voltage	Accelerating Voltage 1~15KV, Continuous Adjustable, Adjust Step 1KV
Detector	Standard: SE, BSE, CCD
	Optional: EDS
Vacuum System	Full Auto Control High Vacuum System, Vacuuming Time <2 Minutes
Specimen Stage	Standard XY Auto Stage, Travel Range 30x30mm,
	Optional 5 Axes Stage
Max Specimen	Φ50 x H35mm
Working Distance	5-35mm
Condenser	Built-in Condenser No Need Manual Adjust Aperture (LaB6 Optional)
Image System	SE, BSE, BSE+SE(Mix) Scan Mode:
	1. Video Mode: 512x512 Pixels, No Need Small Window Scan 2. Quick Mode: Scan Time <3s, 512x512 Pixels, 3. Slow Mode: Scan Time <40s, 2048x2048 Pixels, Image File Format: BMP, TIFF, JPG, PNG
Navigation	Optical CCD Navigation (Not Electrical Image Navigation)
Auto Function	One Key Auto Focus, Auto Brightness & Contrast Adjust
Computer & Software	PC Work Station Win 10 System, With Professional Image Analysis Software To Fully Control Whole SEM Microscope Operation, Computer Specification No Less Than Inter I5 3.2GHz, 4G Memory, 24" IPS LCD Monitor, 500G Hard Disk, Mouse, Keyboard
Working Condition	220V/50Hz 1KW, No Need Shock Absorbing Table
Dimension	Microscope Body 283*553*505mm
	Mechanical Pump 340*160*140mm
Optional Accessories	
A50.7002	EDS Energy Dispersive X-Ray Spectrometer
A50.7011	Ion Sputtering Coater



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