China

CE, Rohs

A63.7003

5~20 Days

5000 pcs/ Month

CNOEC, OPTO-EDU

Opto Edu A63.7003 360000x Tungsten Filament Scanning Electron Microscope

FOB \$1~1000, Depend on Order Quantity

Carton Packing, For Export Transportation

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 1 pc
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms: T/T, West Union, Paypal
- Supply Ability:





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Product Specification

- Acceleration Voltage:
- Magnification:
- Resolution:
- Stage:
- Video Mode:
- Image File:
- ≤4nm

3-20kV, Continuously Adjustable

5 Axis Motorized Stage

≥360000X

- ≥512x512 Pixels
- BMP, TIFF, JPEG, PNG

Our Product Introduction

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Magnification 360000x, Resolution 4nm@20KV(SE) 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 Vaccum System With Mechanical Rotary Pump To Get Vaccum In <2 Minutes

One Key Auto Focus, Auto Brightness & Contrast Adjust, No Need Shock Absorbing Table



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A63.7003

Desktop Tungsten Filament Scanning Electron Microscope, SE+BSE, 360000x





A63.7003 Desktop Scanning Electron Microscopes (SEM) incorporate numerous innovative technologies, offering not only excellent imaging performance but also portability, catering to a wide range of application needs. Both domestically and internationally, the ZEM series, with its high-end positioning and diverse models, has achieved advanced standards in imaging clarity, user-friendliness, and system integration.

A63.7003 is renowned for its high level of integration and flexible configuration options. The user interface is simple, easy to learn, and operate, allowing even non-expert users to quickly become proficient. The accompanying software supports the entire workflow, from sample preparation, parameter adjustment, to image analysis, providing an integrated and efficient solution. **A63.7003** has demonstrated strong analytical capabilities across multiple fields such as new materials, new energy, biomedicine, and semiconductors, assisting researchers in exploring the mysteries of the microscopic world. Due to its excellent cost-performance ratio, the ZEM series has become a preferred choice for many universities, research institutions, and enterprises seeking a desktop scanning electron microscope.

A63.7003 Features





▲ Vacuum Separation Technology: Utilizes a unique vacuum design where the electron gun and sample chamber have separate vacuums, allowing for sample change in less than 1 minute.

▲ Extra-Large Sample Chamber: Provides a larger sample storage space for convenient user operation.

▲ Ultra-High Resolution: Achieves a maximum magnification of 360,000 times with a resolution of 5nm at 20kV.

▲ Standard Equipped Deceleration Mode: Allows for the observation of weakly conductive samples without gold sputtering.

▲ In-Chamber Camera: The sample chamber is equipped with a highdefinition camera for real-time monitoring of sample changes during insitu experiments.



A63.7003 Specification

OPTO-EDU



Working Conditions:

Environmental requirements: small size, the whole machine can be placed on an ordinary laboratory table, no need to be equipped with an additional shock absorbing table.

1. Power supply 220V, 50Hz, 1KW

2.Temperature: Operating ambient temperature: 15°C-30°C

3.Humidity: <80%RH

Main Specification:

1. Acceleration voltage: 3-20kV, continuously adjustable.

2. Electron gun type: pre-aligned tungsten filament (user can change by himself), highly integrated two-stage gun lens, no need to manually adjust the diaphragm of the objective lens.

3. Magnification ≥360000X

4. Resolution:≤4nm

5. Detector types: secondary electron detector (SE), quadruple backscatter detector (BSE), integrated energy dispersive instrument

6. 3 Axis Motorized stage moving X≥60mm Y≥55mm

7. Maximum sample size: XY two axes can be moved freely, and the sample size is 100*78*68.5mm.

8. High vacuum mode: fully automatic control, sample change and vacuum pumping time≤ 30s.

9. Vacuum system: built-in turbomolecular pump, external backing pump, the vacuum degree of the sample chamber is better than: 4x10-2Pa.

10. Video mode: ≥512x512 pixels, no need for small window scanning.

11. Quick scan mode: imaging time \leq 3s, \geq 512x512 pixels.

12. Slow scan mode: imaging time \leq 40s, \geq 2048x2048 pixels.

13. Image File: BMP, TIFF, JPEG, PNG.

14. Auto function: one-key automatic adjustment of brightness and contrast, auto-focus.

15. Navigation function: optical camera navigation and cabin camera.

16. Image measurement function: distance, angle, etc.

17. Control mode: mouse control.

18. Extended function:

--EDS

--5 Axis Motorized Stage

--Low vacuum (1-60Pa)

--Variety in-situ functional sample stages of the original factory,

--Deceleration Mode, can observe non-conductor or poor conductivity samples without gold spraying

19.Main body size: 650*370*642mm

