

FEATURES

- Compact Design for Office Environment
- Middle-End Competitive SEM of Seron Technology
- Powerful Analysis S/W with Versatile Function
- ET-BSE Detector (SE/BSE Mode)
Image Inspection on Non-Coating Condition
- Intuitive Operating System
- High Scan Speed & Pixel Resolution



Invest Novel Thinking Create Novel Value
Scanning Electron Microscope Series

Seron Technologies Inc.

AIS2000C



SPECIFICATION

● Electron Optics

Resolution	3.5nm@30KeV 5nm@BSE Mode
Magnification	10~200,000X
Probe Current	A few pA ~ 8uA
Electron Gun	High Stability Power supply (~a few tens PPM level) Accelerating Voltage : 0.5 ~30KeV Tungsten Hair-Pin Type Cathode Pre-Centered Cartridge
Lens System	3 stage Electro-magnetic Lens Dual Slit Lens Electromagnetic Image Shift 8-pole Stigmator 4 pole scan coil
Aperture	Fixed & 3-hole Movable Aperture
Detector	E-T Detector (Allows SE/BSE Image mode without BSE detector)

● Chamber/ Vacuum

Vacuum	High Vacuum Mode(~10 ⁻⁵ Torr) Full automation with safety system RP + TMP(80 liter/sec.) Vacuum Control by Convection gauge
Option	EDS, BSE, CCD and etc.

● Digital Control Driver

Digital Image	Search Mode(640X480) Inspection Mode(800X600) Inspection Mode(1280X960) Photo Mode(1280X960, 2048X1536, 4096X3072)
Auto Function	Auto-Focus, Auto-Contrast/ Brightness Auto-Stigmator/ E-Gun alignment. Emission Current and etc.
Control PC	Window XP / Window 7, LCD Monitor Quad Core CPU or better

● Installation Environment Condition

Temperature 22 ± 2°C (Fluctuation should be less than 5°C) and Humidity should be below 70%
Electric condition : Single phase, 220~230V AC 5KW, 50Hz / 60Hz
Vibration : 3 um/sec Max. @ < 5~10Hz & EMI. The detail information is refer to Instruction Manual

● Image Analysis S/W

Enhancement	Histograms, Color Transformation, Frequency Filter, etc.
Analysis S/W	Multi-focus/ Tiling/ 3-D View/, etc.
Measurement	AOI (Area-of-Interest; Geometric area tracking), Variety Measuring Tools

● Stage System

Stage	5-axis Precision Stage
Movement	40/40/40mm (X/Y/Z)
Tilt	~ 60°
Rotation	360° Endless Ø130 (Max. Sample Size)
Motorization	3-Axis Motorized Stage(Optional)

● System Dimension

580(W) X 900(D) X 1500(H)mm

