

SERON Invest Novel Thinking, Create Novel Value

COMPACT SEM SERIES

Seron Technologies Inc's mini-compact SEM series provide highest specification at the lowest price in the worlds. Our All-In-One SEM system is simple but powerful. Besides optimized EDS Port Angle 25°, our new models overcome the structure limitation, such as vibration, fever, EMI, etc., of common tablet mini-SEM and reach close to normal SEM's level.



 **COMPACT
MINI SEM**
MODEL AIS1800C



 **COMPACT
SEM**
MODEL AIS2000C



- **Excellent performance in low-end class**
 - Capability resolution 7nm 5nm @30KeV
 - Magnification ~150,000X (Max)
- **Minimized space for office environment**
- **Easy to operate & Easy to observe**

- **High resolving power imaging**
 - Resolution 3.5nm @30KeV
 - Magnification 200,000X
- **Advanced & Compact design**
- **Powerful image analysis S/W**



MODEL AIS2100C



MODEL AIS2300C



E-Beam Micro Joining



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SPECIFICATION

MODEL	AIS1800C		
	COMPACT MINI SEM MODEL		
	AIS-1800C-S	AIS1800C-X	AIS1800C-V
1. ELECTRON OPTICS Resolution Magnification Electron Gun Lens System	7nm @20KV 10~150,000X	7nm @20KV 10 ~ 150,000X Tungsten hair-pin Type Pre-Centered Catridge 3-stage Electromagnetic Lens (Be equipped with Dual Slit Lens) 4-Pole scan coil & 8-pole Stigmator	5nm @30KV 10 ~ 150,000X
2. DETECTOR	ET-BSE Detector (Allows SE & BSE Image Acquisition without Additional BSE detector)		
3. DIGITAL IMAGE Pixel Resolution Auto Function Control PC	Area(640X480), Inspection(600X800,1024X768), Photo(1280X760,2048X1536,4096X3072) Auto-focus, Stigmator, Contrast/Brightness, Gun Alignment, etc. Quad Core CPU/ Window 7 19inch LCD Monitor		
4. STGAE STROKE Stage Movement	3-Axis Stage (X,Y,R) 20X20X40 mm(X/Y/Z) 360° Endless(R) / Tilt(45°, 90°)	5-axis Stage(X,Y,R) 40X40X40mm(X/Y/Z) 360° Endless(R) / Tilt(0 ~ 60°)	
5. CHAMBER & VACUUM Vacuum Pump Vacuum Port	Φ 210 X 180mm(H) Rotary Pump + TMP(80liter/sec.) SE/EDS/BSE/Vacuum Sensor		
6. ANALYSIS S/W Analysis S/W Package Measurement Tool	Histogram/ Frequency Filter/ Multi-focus/ Tiling/ 3-D View/ Particle Counter(Optional), etc. AOI(Area-Of-Interest)		
7. SYSTEM DIMENSION	540mm(D) X 590mm(W) X 1350(H) mm		



● 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, 50/60Hz

Vibration Condition : 3um/sec. Max.@ 5~10Hz & EMI. The detail information is refer to instruction manual.

