## Technical Data

	ORION® PLUS Essential Specifications
Resolution (Probe Size)	≤ 0.35 nm
Accelerating Voltage	10 kV - 35 kV ± 5 kV
Magnification	100 x - 1,000,000 x
Field of View	1 mm — 100 nm
Probe Current	Range: 1 fA — 100 pA
Ion Source	ALIS Gas Field Ion Source
Process Chamber	Volume 400 mm³  Base Vacuum 8 x 10 <sup>-7</sup> Torr  Customizable port plate  Loadlock: Integrated Plasma Cleaner
Image Detectors	Everhart-Thornley Microchannel Plate Solid-state energy resolving backscattered Helium detector
Sample Stage	5-axis motorized stage, 50 mm travel in X and Y, 12 mm Z, 360°, 0° to 45°tilt
Vacuum System	300 L/sec Mag-Lev turbomolecular pumps backed with oil and particle free roughing pumps
Video Cameras	Two video monitoring cameras — Source View and Chamber View
User Interface	Intel® Quad Core Processor 4GB DDR3 memory Two 160GB hard drives Two 20" flat screen displays