

SPECIFICATIONS

Phenom Desktop SEM



	Phenom ProX	Phenom XL
Light optical magnification	20 - 135x	3 - 16x
Electron optical magnification range	80 - 150,000x	80 - 100,000x
Resolution	< 10 nm (BSED) & < 8 nm (SED)	< 14 nm
Digital zoom	Max. 12x	Max. 12x
Light optical navigation camera	Color	Color
Acceleration voltages	Default: 5 kV, 10 kV and 15 kV Advanced mode: adjustable range between 4.8 kV and 15 kV imaging and analysis mode	Default: 5 kV, 10 kV and 15 kV Advanced mode: adjustable range between 4.8 kV and 20.5 kV imaging and analysis mode Secondary Electron Detector
Vacuum modes	<ul style="list-style-type: none"> • Charge reduction mode (low vacuum mode) • High vacuum mode 	<ul style="list-style-type: none"> • Charge reduction mode (low vacuum mode) • High vacuum mode • Medium vacuum mode
Detector	<ul style="list-style-type: none"> • BSD • EDS • SED (optional) 	<ul style="list-style-type: none"> • BSD • EDS (optional) • SED (optional)
Sample size	Up to 32 mm (Ø)	<ul style="list-style-type: none"> • Max. 100 mm x 100 mm • Up to 36 x 12 mm pin stubs
Sample height	Up to 100 mm (h)	Max. 65 mm

SPECIFICATIONS

Phenom Desktop SEM



	Phenom Pro	Phenom Pure
Light optical magnification	20 - 135x	Fixed 20x
Electron optical magnification range	80 - 150,000x	70 - 30,000x
Resolution	< 10 nm (BSED) & < 8 nm (SED)	< 30 nm
Digital zoom	Max. 12x	Max. 12x
Light optical navigation camera	Color	Black & White
Acceleration voltages	Default: 5 kV, 10 kV and 15 kV	Default: 5 kV
Vacuum modes	<ul style="list-style-type: none"> • Charge reduction mode (low vacuum mode) • High vacuum mode 	
Detector	<ul style="list-style-type: none"> • BSD • EDS (optional) • SED (optional) 	
Sample size	Up to 32 mm (Ø)	Up to 32 mm (Ø)
Sample height	Up to 100 mm (h)	Up to 100 mm (h)