

Compare AFM products

AFM5500M, AFM5300E, AFM5100N

Model	Scanning Probe Microscope AFM5500M	Environment Control Unit AFM5300E	General-purpose Small Unit AFM5100N
			
Detection	Optical lever	Optical lever	Self-Detection/ Optical lever
Light source	Low-coherence light	Low-coherence light	Light
Sample size	Max. 100mmφ, Thickness: 20mm	Max. 25mmφ, Thickness 10mm	Max. 35mmφ, Thickness 10mm Max. 50mm square, Thickness 20mm*
Scan range	Closed loop control 200 μm x 200 μm x 15 μm	Open loop control XY: 20 μm/ Z: 1.5 μm XY: 100 μm/ Z: 15 μm XY: 150 μm/ Z: 5 μm Closed loop control XY: 15 μm (Select at least one)	Open loop control XY: 20 μm/ Z: 1.5 μm XY: 100 μm/ Z: 15 μm XY: 150 μm/ Z: 5 μm Closed loop control XY: 110 μm/ Z: 6 μm (Select at least one)
Optical Microscope	Zoom magnification: x1 ~ x7	Zoom Microscope Metallurgical Microscope (Select at least one)	Simplified optical microscope for both self-detection/ optical lever Zoom Microscope Metallurgical Microscope (Select at least one)
Basic function	AFM, DFM, PM, FFM	AFM, DFM, PM, FFM	Self-Detection: DFM, PM Optical lever: AFM, DFM, PM, FFM
Extended function*	SIS-Topography, SIS-Property, LM-FFM, VE-AFM, Adhesion, Current, Pico-Current, SSRM, PRM, KFM, EFM, MFM,	SIS-Topography, SIS-Property, STM, LM-FFM, VE-AFM, Adhesion, Current, SSRM, SNDM, PRM, KFM, EFM, MFM	SIS-Topography, SIS-Property, STM, LM-FFM, VE-AFM, Adhesion, Current, SSRM, SNDM, PRM, KFM, EFM, MFM
Vibration isolation	Desktop active anti-vibration	Floor-model	Tabletop Floor-model (Select at least one)
Stage	Automated, fully addressable 100mm (4 inch) stage Travel range: XY ± 50mm, Z ≥21mm Minimum step size: XY 2 μm, Z 0.04 μm	Manual stage Travel range: XY ±2.5mm	Manual stage Travel range: XY ±2.5mm Impact stage*
Environment	In air	In air, In vacuum*, In liquid*, Humidity*, Heating/Cooling*(-120~300°C/RT~800°C)	In air, In liquid*, Humidity*, Heating*(RT~250°C)

*Option