UHV-LT-SPM-MBE SYSTEM

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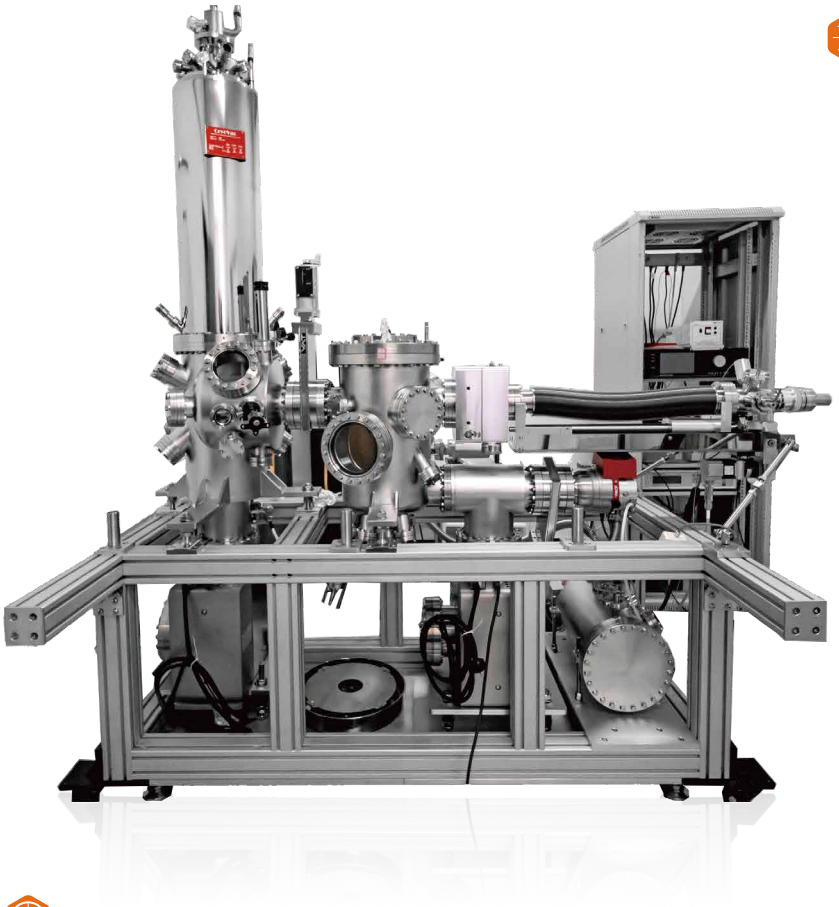


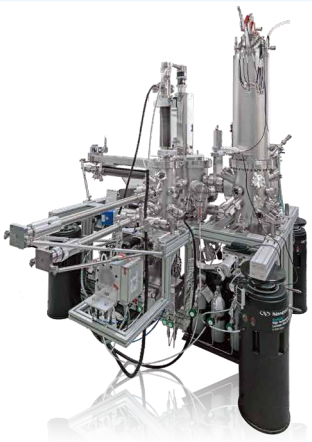
MAIN FEATURES

New Pan-type scanner with q-Plus AFM function, modular design, easy to maintain

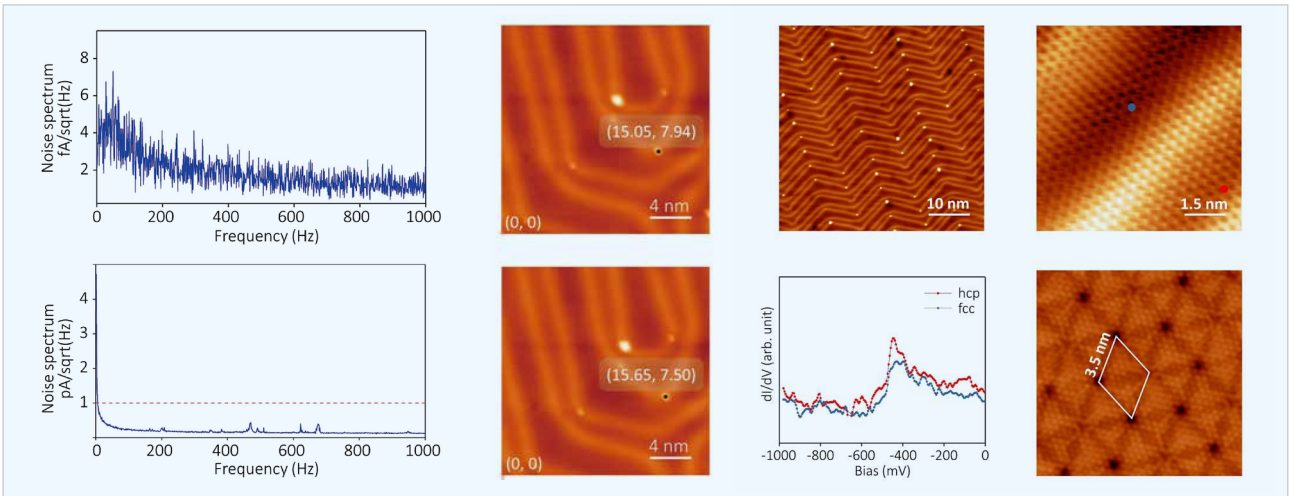
Optional optical access, suitable for optical experiment

Multi-sources MBE sample preparation, in-situ deposition

Compact Load-Lock chamber, fast sample transfer



STM TEST DATA



A detailed introduction of the system was successfully published in AIP Review of Scientific Instruments 89, 113705 (2018); doi: 10.1063/1.5046466
Article link: Https://aip.scitation.org/doi/10.1063/1.5046466

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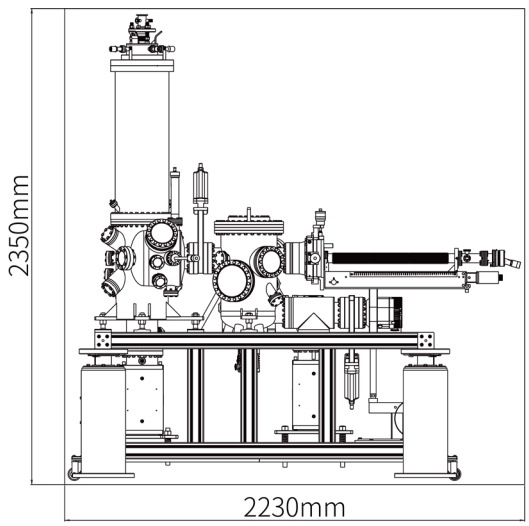
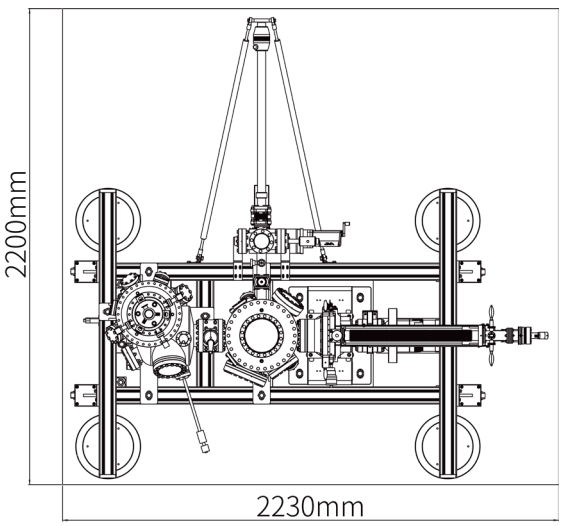
TECHNICAL DATA

Scanner	Optical compatible	
	Modular design with q-Plus AFM Function	
	Lowest operational temperature	⩽5K
	X/Y/Z Coarse range	2×2×8mm
	X/Y/Z Scan range	6×6×2μm @ RT
		1.5×1.5×0.5μm@ LHe
	LHe holding time	⩾50h (Cryostat bath capacity: 4L LHe, 15L LN2)
	Temperature stability	＜0.2nm/h
	Resolution	Atomic resolution
Manipulator	X/Y Axis	±12.5mm manually actuated
	Z Axis	450mm stepper motorized
	Primary (polar) rotation	±180° manually actuated
	Secondary (azimuthal) rotation	±180° manually actuated
	Temperature range	120K~RT (LN2 cooling)
		RT~1450K (E-Beam heating)
Evaporators (up to 6)	DN40CF (O.D. 2.75'')	Qty: 5
	DN63CF (O.D. 4.5'')	Qty: 1
Options	Optical access, suitable for optical experiment	
	RHEED	
	LEED	
	Ion Gun（3KeV/5KeV）	



Front view



Top view

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