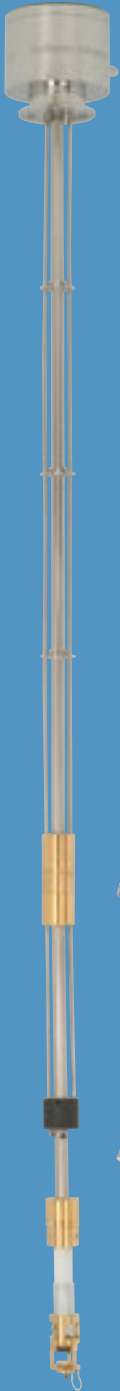
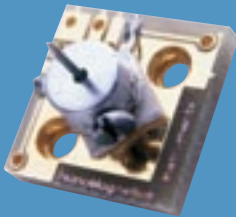


# Multimode PPMS<sup>®</sup> - SPM System

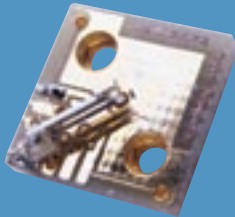
AFM, MFM, SHPM, STM, EFM



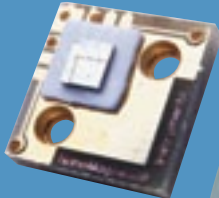
STM



Quartz AFM



SHPM



AFM

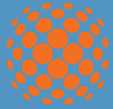


MFM



Akiyama AFM





**NANOMAGNETICS  
INSTRUMENTS**

# Multimode PPMS<sup>®</sup> - SPM System

AFM, MFM, SHPM, STM, EFM



AFM Image of  
Calibration Grating



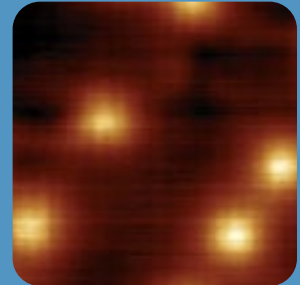
STM Image of  
2 μm pitch Calibration Grating



MFM Image of  
Garnet Crystal



SHPM Image of  
Vortices in BSCCO Single Crystal



## System Specifications

Imaging Modes	: AFM, MFM, SHPM, STM, EFM, SNOM (in development)		
Scan Size	: Large Area Scan Head	Standart Scan Head	Small Area Scan Head
	150 x 150 μm @ 300 K	52 x 52 μm @ 300K	8 x 8 μm @ 300 K
	36 x 36 μm @ 77 K	14 x 14 μm @ 77 K	3.5 x 3.5 μm @ 77 K
	18 x 18 μm @ 4.2 K	6 x 6 μm @ 4.2 K	1.5 x 1.5 μm @ 4.2 K
Z Range	: 7.0 μm @ 300 K	4.8 μm @ 300 K	2.4 μm @ 300 K
	1.8 μm @ 77 K	1.2 μm @ 77 K	0.6 μm @ 77K
	0.8 μm @ 4.2 K	0.5 μm @ 4.2 K	0.25 μm @ 4.2K
Head Dimensions	: 23.6 mm OD x 125 mm or 25.4 mm OD x 100 mm		
Sample Approach	: Stick-slip type; 10 mm Z, φ3 mm XY range with 50 - 800 nm step size		
Sample Size	: 15 x 15 x 5 mm maximum		
Temperature Range	: 2K - 300K (limited by PPMS <sup>®</sup> )		
Magnetic Field	: >16 T		
PPMS <sup>®</sup> Type	: Compatible with all the PPMS <sup>®</sup> types. (The compressor should be switched off for EVERCOOL <sup>®</sup> option)		

Software upgrades are free for lifetime

Note: Specifications are subject to change without notice.

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