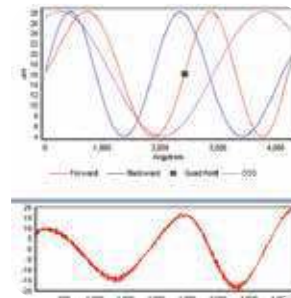
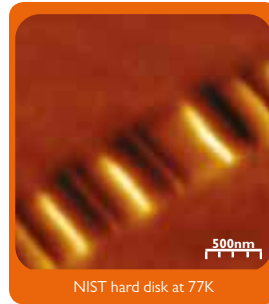
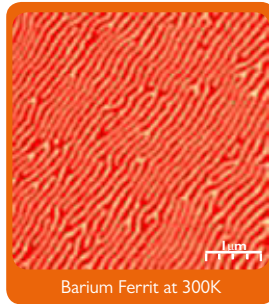




PPMS[®]-MFM/AFM

with high resolution
fibre interferometer
& alignment-free cantilevers





System Specifications

Imaging Modes : MFM, Conductive AFM, EFM, STM, Contact/Semicontact/Non-Contact mode AFM using digital

PLL 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, Ø3 mm XY range with 50 - 800 nm step size

Fine Sample Positioning : Capacitive encoder with 2 µm resolution

Sample Size : 15 x 15 x 5 mm maximum

Sample Holder : 5 pins connections for experiments: One bias voltage, 4 spares

Temperature Range : 1K-300 K (Limited by the PPMS or the cryogenic system)

Magnetic Field : >16 T

Operation : Vacuum or exchange gas environment

Compatibility PPMS. PPMS Evercool can also be compatible with switched off compressor during experiments. Oxford Instruments' Dilution Refrigerators and He3 systems. Can be customised to fit in to other mK systems if free space permits.