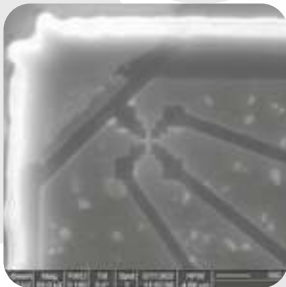




3D-SHPM

3D-Scanning Hall Probe Microscopy
at nanometer scale:
measure B_x , B_y & B_z simultaneously!

- Non-invasive & quantitative
- Wide temperature range 10mK-400K
- Compatible with PPMs®, other cryostats and DRs
- STM or AFM tracking
- Localised B-H curves
- Room Temperature version available

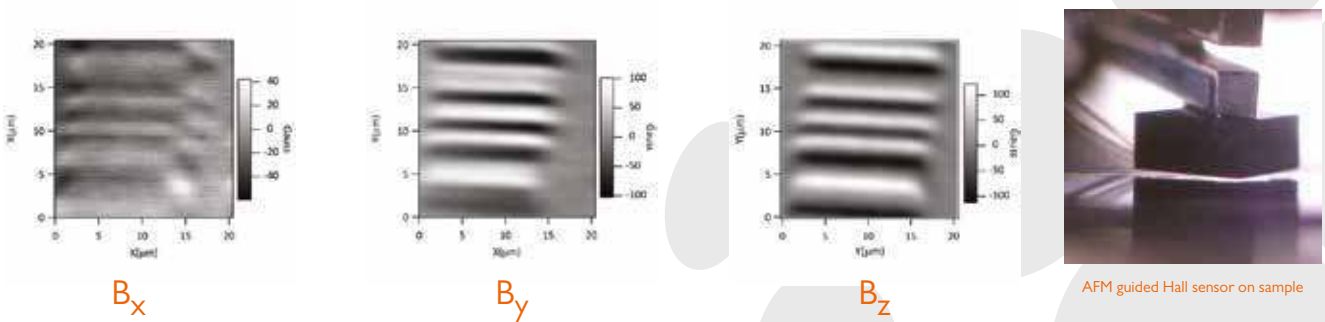


50 nm Hall Sensor



3D -SHPM

A Unique Quantitative and Non-invasive Instrument to image 3D Surface Magnetic Fields at Nanometer Scale
Measurement of 3 components of Magnetic Field on the surface of a hard disk sample using 3D-SHPM at 77K



System Specifications

Imaging Modes : SHPM, STM, AFM, MFM, EFM, SNOM

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, \varnothing 3 mm XY range with 50 - 800 nm step size

Sample Size : 15 x 15 x 5 mm maximum

Temperature Range : 10mK - 400K for LT-SHPM (limited by the cryostat)

Magnetic Field : >16 T

Suitable cryostats are also available Software upgrades are free for lifetime
Note: Specifications are subject to change without notice.