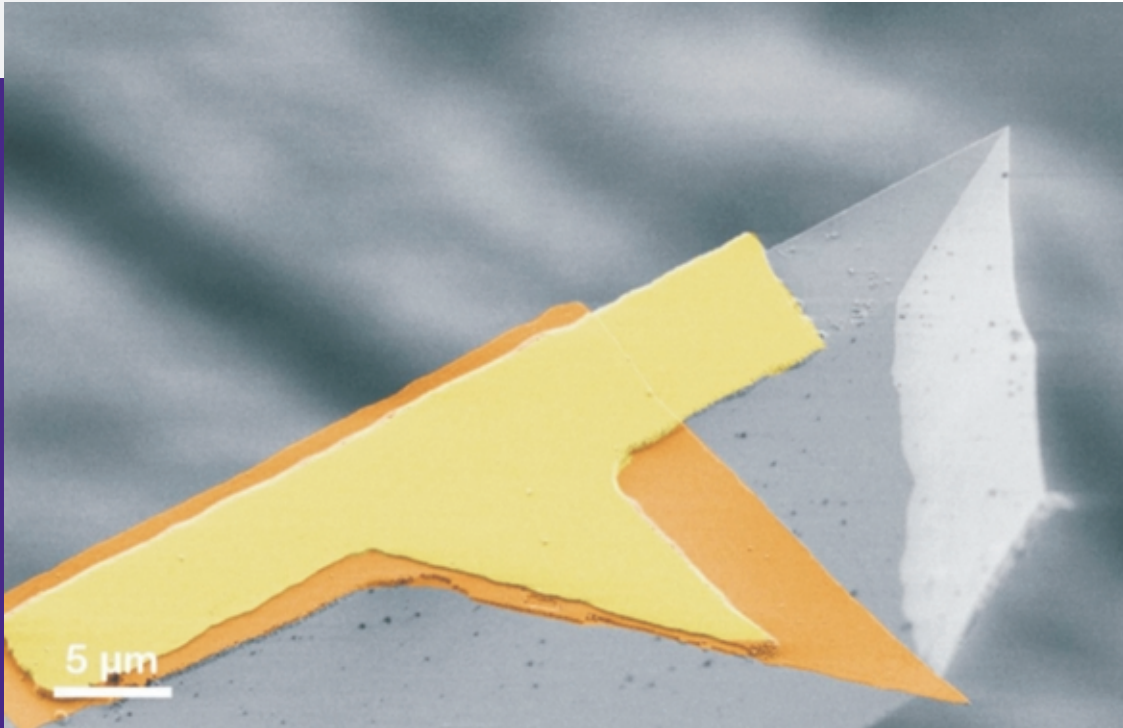


*A solution for:*



## High Resolution MFM Probe



### Product description

The CC-35-M magnetic force probe, developed by the SMI group of the MESA+ Institute for Nanotechnology, has been specifically designed for high resolution magnetic imaging. The magnetic tip shape and high Q-factor enable imaging of magnetic features  $< 25$  nm. It is the ideal tool to image magnetic data storage media and heads. The high shape anisotropy of the magnetic coating allows imaging of high coercivity magnetic materials.

### Ideal Tip Shape

The etched silicon cantilever carries a SiN tip plane. The magnetic coating is of this plane. Thus the closest approximation of the ideal magnetic bar shape is achieved. Patent pending.

### Specifications

Resonant Frequency	50-80 kHz
Magnetic Coating	Co based
Reflective Coating	Al
Cantilever	Si
Tip Plane	SiN
Cantilever Length	320 $\mu$ m
Cantilever Width	50 $\mu$ m
Cantilever Thickness	4 - 5 $\mu$ m
Tip Plane Length	20 $\mu$ m
Tip Plane Thickness	35 nm
Tip Plane Orientation	Corrected for tilt angle Perpendicular to sample

*manufactured by:*



## Lionix BV

Lionix is a leading provider in development and small to high volume production of leveraging and innovative products based on microsystem technology and MEMS. Our core technologies are integrated optics and microfluidics.

Lionix' customers operate in telecom, industrial process control, life sciences and space markets and include OEM's, multinationals, VC start-up companies as well as research institutions from around the world.

Lionix offers design for manufacturing and horizontal integration by partnering with MEMS/MST foundries and suppliers of complementary technologies. Cooperations are based on subcontracting, licensing of IP or joint ventures.



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## SmartTip BV

SmartTip BV is specialized in the design and production of special purposes SPM probes. Our mission is to provide corporate and academic laboratories research with "Smart" probes for innovative Scanning Probe Application.

If we cannot serve you with one of our "standard" probe solutions, we can design and engineer a solution for you.

SmartTip BV is a spin-off of the MESA+ Institute for Nanotechnology at the University of Twente in the Netherlands.

We build on its extensive experience and innovation in Scanning Probe Microscopy. Our location next to MESA+'s up-to-date Cleanroom and analysis labs guarantees the production of high quality, reproducible and reliable probes.



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