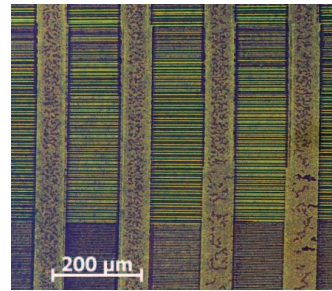


Mobjective

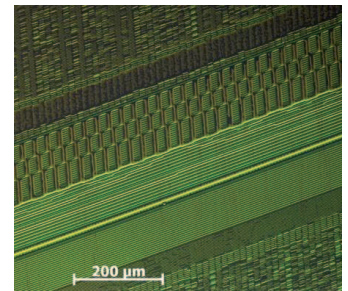
Magneto-optical lens adapter for petrographic microscopes

The Mobjective is an adapter with an integrated magneto-optical sensor for microscopic investigations, which can be mounted directly on the objective lens of petrographic microscopes.

Therewith a fast and high-resolution analysis of magnetic structures in the micrometer range is possible. Magnetic stray fields in the near field of storage media, magnetic steel alloys, domain materials, current-carrying conductors and permanent magnets can be visualized with the Mobjective.



1,4 MB floppy disk



200 MB hard disk

Function principle

- Use of linearly polarized light of the petrographic microscope
- Rotation of the polarization plane of the light by the magneto-optical sensor depending on the local magnetic field (Faraday effect)
- Visualization of the magnetic stray field by local changes of the light intensity (magneto-optical image)

Technical features

- Analysis in the visible spectral range with polarized light
- Analysis of: polarity, homogeneity, distribution of the magnetic material and magnetic material's magnetization properties
- Field dynamic: 0,01 up to 160 kA/m (0,1 up to 2.000 Oe)
- Sensor size: 3 mm x 3 mm
- Lateral resolution: 3 µm
- Suitable for Zeiss lens Epiplan 10x|0,20 (other lenses available on request)
- Adjustable pressure intensity