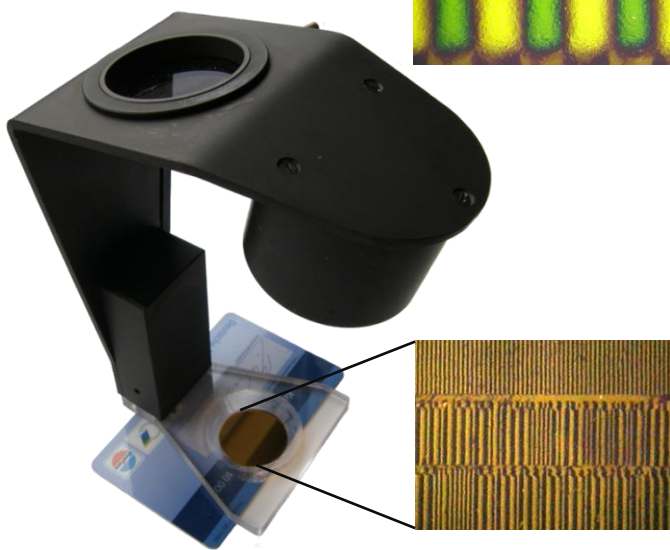
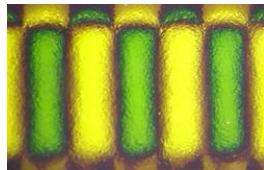


MagView

Magneto-optical visualization of magnetic fields

MagView is a magneto-optical readout device for fast and accurate visualization of magnetic structures. As a handheld device, the system can be applied for qualitative testings and stray field analysis. MagView visualizes magnetic stray fields of credit cards, magnetic encoders and multipole magnets.

Visualization of the magnetic structure of a linear encoder



Visualization of the magnetic structure of a credit card

Visualization of magnetic fields

Magnetic information, such as permanent magnetic structures and inhomogeneities due to fissures and cracks in ferromagnetic materials, can be visualized by use of magneto optical sensitive sensors. For this purpose the sensor is set in direct contact with the surface containing the magnetic information.

Furthermore magneto-optics is feasible in eddy current testing.

Because of the adaptive design MagView is suitable for visualization of low magnetic fields of audio and video tapes, debit and credit cards, floppy disks and hard drives.

For digital analysis and data archiving our CMOS-MagView should be your first choice.

Functional principle

- Generation of homogeneous, linear polarized light (LED & polarizing filter)
- Change of the polarization status of light in the magneto-optical sensor dependent on the applied local magnetic field using reflection mode
- Visualization of the generated inhomogeneous polarization of the light as a local intensity modification via a second polarizer
- Recording of the magneto-optical image by the use of a standard optical digital camera

Technical Features

- Direct visualization of magnetic fields
- Investigation at the visible spectral range (fixed wavelength or white light)
- Analysis of:

polarity, homogeneity,	
dispersion of the magnetic	
material and magnetization	
properties	
- Field detection: 0.01 to 160 kA/m
(0.1 to 2,000 Oe)
- Sensor size: up to $\varnothing = 25$ mm (1 inch)
- Portable and easy handling