



**magview**  
by matesy

## Mobile visualization of magnetic structures



The **magview** is a magneto-optical device for the fast and accurate visualization of magnetic structures. As a handheld device, the system can be applied for qualitative tests and stray field analyses. The magview visualizes magnetic stray fields, for instance of magnetic stripe cards, magnetic encoders and multi pole magnets.

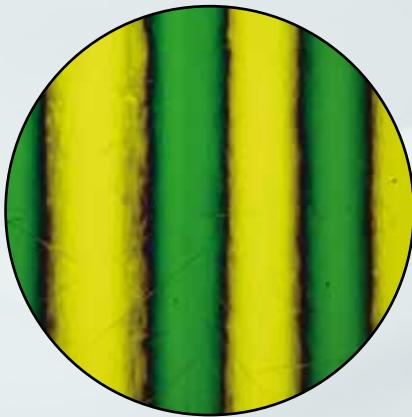
## Visualization

The magview is capable of imaging magnetic stray fields and the field distribution. Inhomogeneities and cracks in ferromagnetic materials can be visualized by the use of sensitive magneto-optical sensors. The Sensor needs to be applied to the surface of the sample directly in order to generate a clean image of the magnetic information.

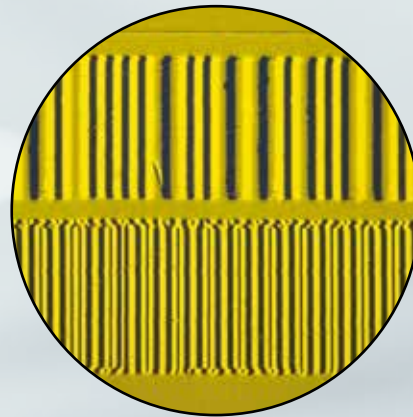
Security-stripe  
visualization



## Examples



Visualization of the magnetic structure of a linear encoder



Visualization of the magnetic structure of a credit card



Visualization of the magnetic structure of a serial number

## Function Principle

- Integrated homogeneous, linear polarized light illumination (LED)
- Change of the polarization status of light in the magneto-optical sensor depending on the applied local magnetic field
- Analysis of local intensity changes via a secondary polarizer

## Technical Features

- Direct visualization of magnetic fields
- Analysis of: polarity, homogeneity, distribution of the magnetic material and magnetization properties
- Field range: up to  $\pm 160$  mT
- Sensor size: 20,5 x 15,5 mm
- Mobile and easy to use

