Visualizer of magnetic properties
Regula model 4197 “MagMouse”

Device functions:

- Detection of magnetic properties in examined inks
- Examination of printing materials and elements
- Reading of invisible magnetic strokes and codes
- Investigation of shape, size and position of strokes
- Restoring data from damaged documents

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Application

Forensic service:
- examination of questioned documents and security papers;
- classification of ways to forge security papers and banknotes;
- restoration of data from damaged documents (reading inky and blurred texts with magnetic properties)

Banking: authenticity control of securities, banknotes

Customs control of security papers and banknotes

Main technical characteristics

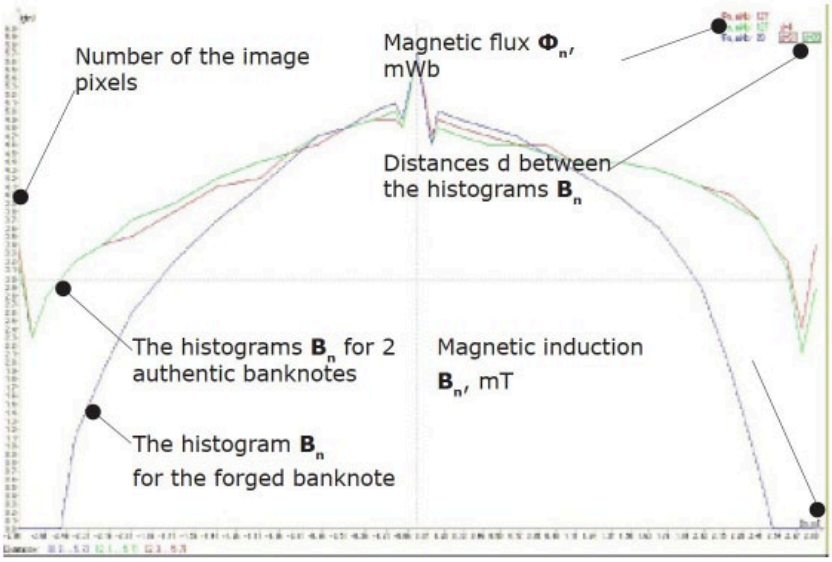
Dimensions – 59 x 113 x 50 mm
Weight – 490 g
Viewing field – 14 x 18 mm
Image format options – 1024 x 1280 px
512 x 640 px
USB connection
Operating system – Windows XP, Vista, Windows 7.

Methods

1. Magnetization of examined object by exciting external magnetic field
2. Magneto-optical visualization of stray fields using Faraday Effect
3. Transferring visualized image to PC
4. Processing of obtained images with special software, comparing and measuring dimensions of printed elements, their linear and amplitude characteristics.

Distinctive features

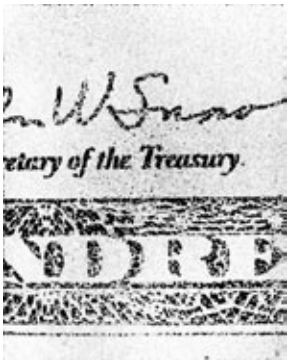
- Examination in live mode
- Visualization of hard and soft magnetics
- Improved magnetization scheme and enhanced sensitivity
- Detachable magnetizer unit allows distinguishing magnetic inks by residual magnetization (hard and soft magnetics), as well as non destructive investigation of objects with hard magnetics (credit cards, metal protective threads, magnetic keys)
- Possibility of magnetic measurements (in tesla T)*



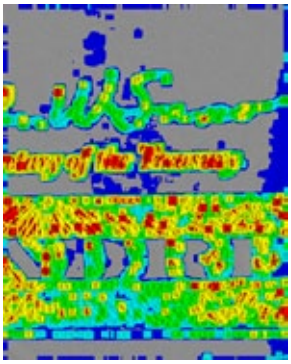
Magnetic measurements (in tesla T)*

*Tesla (unit) - http://en.wikipedia.org/wiki/Tesla_(unit)

Magnetic properties



Black & White



Colour (magnetization intensity pattern)

Raw