

Application:

Forensic examination
Banking
Customs and frontier control

Methods:

Magnetization by creation of external magnetic field
Magnetic-optical visualization of stray fields of magnetized object using Faraday's effect (magnetic rotation)
Transformation of visualized image to television signal, transferred to computer

Peculiarities of this instrument:

Effective magnetization scheme and high sensitivity enable to investigate magnetic materials with small level of leakage flux.



Lay-out of magnetic design on a 100-dollar banknote: in the emission of 1988-at the upper part, in the emission of 1996-at the bottom part.



Magnetic-optical visualization of a 50-dollar banknote.