Magneto-Optical Visualizer Regula 4197



The visualizer is intended for express authenticity verification and advanced examination of banknotes, securities and documents with magnetic security features.

Regula 4197 is a USB device. Its body is made of metal and high-strength plastic. The product power supply, control, displaying and processing examination results are carried out via a PC and special CADR software.

Functionality

- Examination of magnetic security features in banknotes and travel documents in the mode of live video
- Visualization of magnetically hard and magnetically soft materials
- Possibility to distinguish different types of magnetic materials by residual magnetization
- Carrying out non-destructive examination of objects with “hard” magnetic properties
- Reading latent magnetic strokes and codes
- Examination of damaged documents: reading blurred and crossed out texts printed with magnetic ink
- **Assessment of magnetic parameters for document security elements: distribution of magnetic induction, magnetic flux modulus**

Special features

- Effective magnetization scheme
- Examination of magnetic materials with a low level of apparent magnetism
- Taking magnetic measurements
- Detachable magnetic excitation system

Application

- Forensic departments
- Financial institutions
- Border control/immigration services
- Customs authorities
- Other agencies and organizations authorized to check documents

Delivery Set

CADR software is intended for continuous display of a visualized magnetic image on a PC monitor and for storing separate image frames for further digital processing.

Field of view, mm — 14×18

Spatial resolution of the optical input system, mkm:

- frame size 1024×1280 pixel — 14
- frame size 512×640 pixel — 28

Connection interface — USB

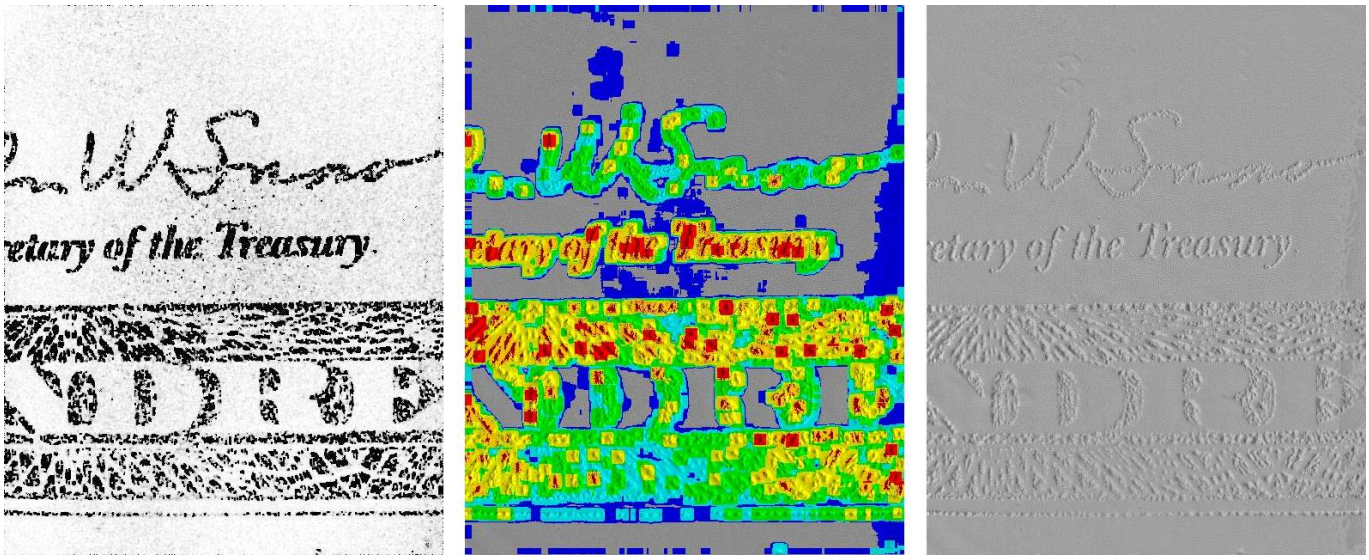
OS — Microsoft Windows 10

Dimensions (length×width×height), mm — 59×113×50

Weight, kg — 0,49

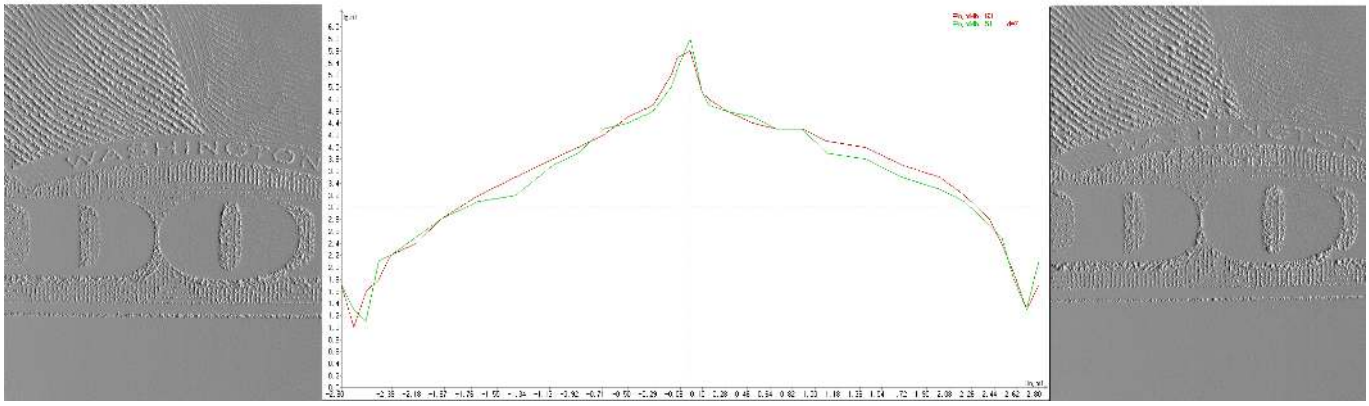
Power supply voltage from USB 2.0, V — 5

Power consumption, W, max — 2,5



Black & White. Colour (magnetization intensity pattern). Raw





Magnetic measurements