



Regula 4178 is a compact USB device constructed in plastic body in the form of a base for a spectral luminescent magnifier [Regula 4177](#). The device power supply, control, displaying and processing examination results are carried out via a PC and [Regula Forensic Studio](#) software.

The optical module widens the spectral luminescent magnifier field of view. The device is equipped with additional light sources.

Functionality

- **Examinations on different levels**
 - **protection of the document basis**
 - security fibers, planchetes, security threads, holograms, foil stamping, pole feature, transparent vanish coating, etc.
 - **printing methods**
 - *intaglio*: texts, guilloche frames, rosettes and vignettes, microprinting, latent images and moire patterns, signs for the visually impaired, blind embossing, colour shifting ink, including OVI with embossing and latent images, etc.
 - *letterpress*: serial numbers, texts, barcodes, etc.
 - *offset printing* including Orlov and rainbow printing: texts, microprinting, moire patterns, background and anti-copy patterns, etc.
 - *screen printing*: security features with optically variable effects, etc.
 - perforation
 - **physico-chemical protection**
 - UV luminescence
 - IR luminescence
 - **complex security features**
 - holographic images, OVD
 - security features with IR-metameric ink
 - special polymer coating of security laminates
 - metallized coating
 - laser engraving
- **Additional examination of**
 - fragments of document images depending on the degree of absorption or reflection of IR light
 - document alterations such as erasure, etching etc.
 - traces of signature forgery
 - extraneous lines (do not originally belong to the examined object) that are performed with IR opaque inks
 - blurred, crossed out entries, texts and images
 - document mechanical defects such as cuts, tears, folds, etc.

Application

- Border control and immigration services
- Customs authorities
- Law-enforcement agencies
- Forensic laboratories
- Financial institutions
- Other agencies and organizations authorized to check documents



Functionality

| | | |
|---|-----------------|-------------------------------------|
| Light sources | white | incident |
| | | 4 oblique from different sides |
| | | 24 oblique for hologram examination |
| | ultraviolet, nm | 254 |
| | | 313 |
| | | 365 |
| 4 oblique infrared, 870 nm – from different sides | | |

[Regula 4177](#) field of view when using the optical module, mm — 16×22

Connection interface — USB 2.0

OS — Microsoft Windows XP (SP3), Windows Vista, Windows 7, Windows 8

Dimensions (length×width×height), mm — 106×70×46

Weight, kg — 0,3

Power supply voltage, V — 5

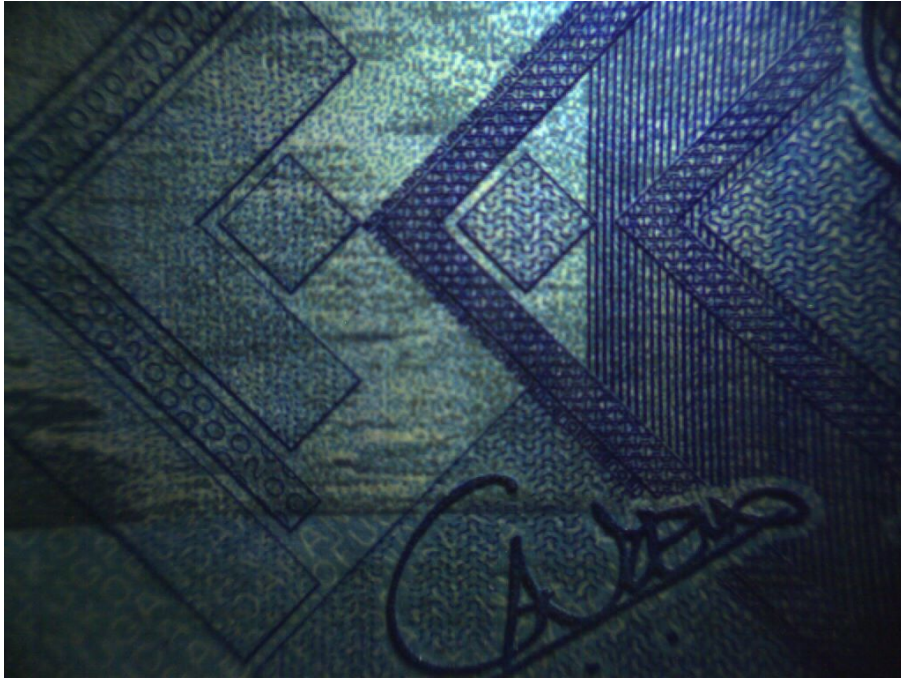
Power consumption, W — 2,5



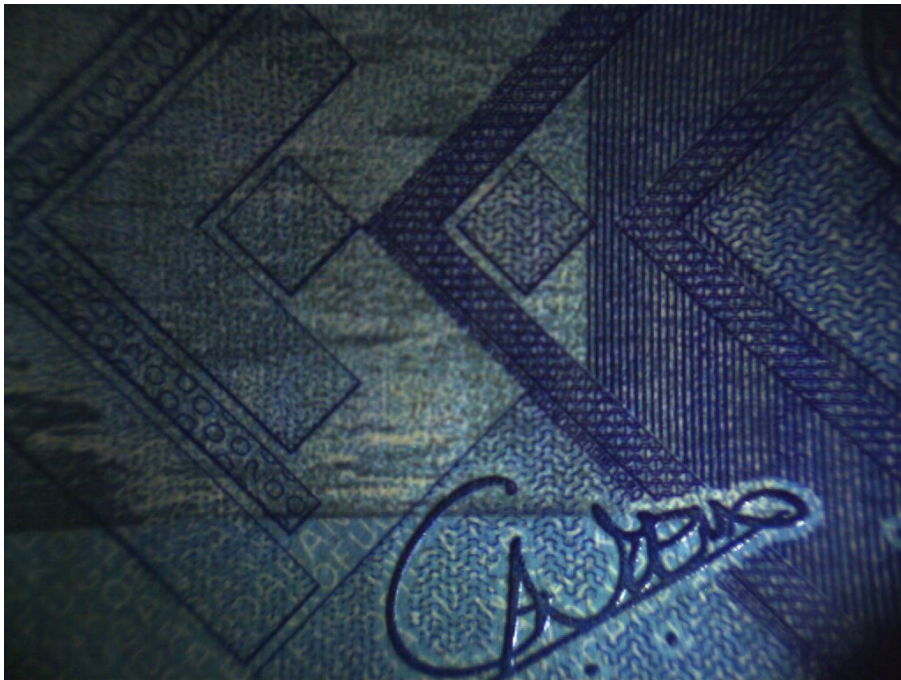
Top white light 1x



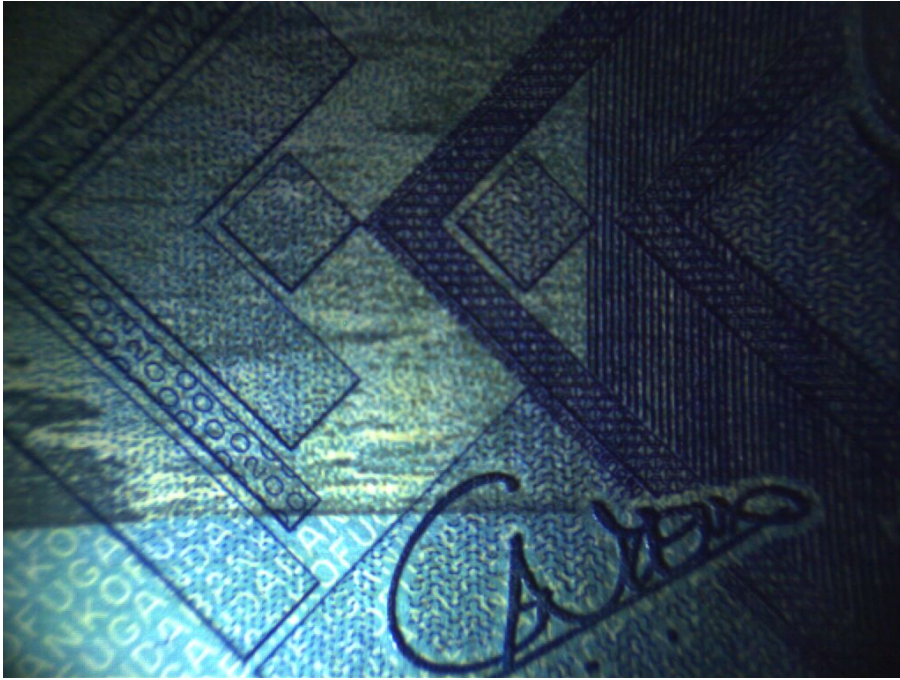
Oblique white light 1x



Oblique white light 1x



Oblique white light 1x



Oblique white light 1x



Oblique IR light 1x



Oblique IR light 1x



Oblique IR light 1x



Oblique IR light 1x



UV top light (254 nm) 1x



UV top light (313 nm) 1x



UV top light (365 nm) 1x