

Video spectral comparator

Regula 4306

Regula
forensic science systems



The comparator is intended for advanced authenticity verification of passports, visas, banknotes and other documents with security features.

The device is made as a single unit for desktop use. It is used with a PC and fully controlled through “Regula Forensic Studio” software interface (supplied with a unit). The video spectral comparator has a set of light sources of visible, infrared, ultraviolet spectral ranges and imaging filters, enables to capture, process and store digital images of examined objects.

It is equipped with a hyperspectral imaging module, modules for reading MRZ, RFID chips, hidden image, 1D and 2D barcodes. The device is supplied with information reference systems. The front panel of the device has several ports for connection of additional external devices, such as a spectral luminescent magnifier Regula 4147, thermostage Regula 4168 or a magneto-optical visualizer Regula 4197.

Specifications

Regula 4306

Light sources

- Incident: white, UV (395 nm, 365 nm, 313 nm, 254 nm), IR (700 nm, 780 nm, 850 nm, 950 nm, 1020 nm)
- Oblique (adjustable): 2×white, 2×IR 850 nm
- For 3D visualization: white, IR 850 nm
- Transmitted: white, IR (860 nm, 780 nm), UV 365 nm, spot white, spot IR (950 nm, 860 nm, 780 nm)
- Coaxial white
- For OVD visualization
- High-intensity LEDs for IR luminescence: 395 nm, 420 nm, 450 nm, 470 nm, 505 nm, 530 nm, 590 nm, 615 nm, 635 nm, 660 nm, 700 nm, 735 nm
- High-intensity spot incident: white, 365 nm
- Polarized: top visible linear polarization, top visible left-hand circular polarization, top visible right-hand circular polarization
- High-intensity IR for anti-Stokes luminescence — 800-1100 nm

Imaging parameters

- Camera — 8 Mp
- Magnification — in the range of 1-30x with an additional fixed gradation of 60x
- Fields of view:
 - 216×162 mm
 - 296×222 mm (without the object stage)
- Frame size — 2880×2160 pixels

Technical specifications

- Connection interface — USB 3.0
- Overall dimensions (L×W×H) — 400×380×370 mm

