The device is intended for advanced authenticity verification of passports, ID cards, travel documents, visa stamps and seals, including but not limited to entry permits, driving licenses, vehicle registration certificates and other vehicle related documents, banknotes, revenue and special stamps, securities and other documents with security features.
Regula 4205D is constructed in metal body as a standalone unit for desktop use. Control buttons on the front panel are responsible for the activation of light sources and adjustment of camera parameters in different examination modes.

The device has a spacious working area over the object stage, clamps for fixing examined documents, and a mount for fixing the device on a table (G-lock for anti-theft). The monitor angle and its brightness can be adjusted.

Regula 4205D is equipped with modules for reading MRZ and RFID chips and has an integrated information reference system to compare the examined document with the document template from the database.

**Functionality**

- **Examinations on different levels**
  - **protection of the document basis**
    - paper opacity, watermarks, security fibers, planchetes, security threads, holograms, foil stamping, pole feature, all types of windows, transparent vanish coating, shadow images, 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.
    - see-through register
    - perforation
  - **physicochemical protection**
    - UV luminescence
    - IR luminescence
  - **complex security features**
    - retroreflective protection
    - security features with IR-metameric ink
    - special polymer coating of security laminates

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

http://www.regulaforensics.com/
**Functionality**

<table>
<thead>
<tr>
<th>Light sources*</th>
<th>white</th>
<th>incident</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2 oblique</td>
</tr>
<tr>
<td></td>
<td></td>
<td>coaxial</td>
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<tr>
<td></td>
<td></td>
<td>transmitted</td>
</tr>
<tr>
<td>ultraviolet 365 nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>infrared, nm</td>
<td>incident</td>
<td>870</td>
</tr>
<tr>
<td></td>
<td></td>
<td>950</td>
</tr>
<tr>
<td></td>
<td>2 oblique</td>
<td>870</td>
</tr>
<tr>
<td></td>
<td>transmitted</td>
<td></td>
</tr>
<tr>
<td>green incident 505 nm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* – All light sources are LEDs

Video camera — 5 Mp, CMOS

Frame size, pixels:

- standard mode — 1024×638
- HDR mode — 2048×1276

Magnification:

- optical, times — 26
- on the monitor, times — 1.2 to 31

Field of view:

- maximum, mm — 180×112
- minimum, mm — 7×4.3

Monitor:

- diagonal, inch — 10.1
- resolution, pixels — 2560×1600
- type — IPS Capacitive Multi-touch

Camera filter (automatically installed) — IR high pass with the threshold of 700 nm

RFID reader:

- standards — ISO 14443: A and B types
- PC/SC protocol support
- data exchange rate, Kbaud — 106, 212, 424, 848
- reading an RFID tag regardless of its position in a document
- anti-collision: reading an RFID tag according to the MRZ

Ethernet network controller: supported transfer rate — 10/100/1000 Mbps

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Integrated information reference system (to compare the examined document with the document template from the database)

Maximum document size, mm — 190×280

Dimensions (length×width×height), mm — 310×240×320

Weight, kg — 6

Power supply voltage, V — 100–240

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