



COMPANY PROFILE



Branches

 Belarus

 Latvia

 Brazil

 Ukraine

 Netherlands

 South Korea

 Russia





Certificates

ZERTIFIKAT ■ CERTIFICATE ■ CERTIFICADO ■ CERTIFICAT ■ CERTIFIKAT ■ 認證證書 ■ CERTIFICATE ■ ZERTIFIKAT

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that



Regula Ltd.
Wolokha Nr. 1
220036 Minsk
Belarus

has established and applies
a Quality Management System for

**Development, Production and Sales of
Optoelectronic Equipment and Systems.**

An audit was performed, Report No. 70036321.
Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled.

The certificate is valid from 2015-04-24 until 2018-04-23.

Certificate Registration No. 12 100 19038 TMS.

M. Nege

Product Compliance Management
Munich, 2015-04-13



TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Riederstraße 65 • 85359 München • Germany
www.tuv-sud.de/certificate-validity-check

TÜV®



Management Service

BUREAU VERITAS
Certification



Certification

Awarded to

SIA "Regula Baltija"

A.Pumpura iela 97, Daugavpils, LV-5404, LATVIA

Bureau Veritas Certification certify that the Management System of the above
organisation has been audited and found to be in accordance
with the requirements of the management system standard detailed below

STANDARD

ISO/IEC 27001:2013

SCOPE OF CERTIFICATION

**PROTECTION OF INFORMATION RELATED TO MANUFACTURING AND SALES OF
OPTOELECTRONICAL EQUIPMENT.**

In accordance with Statement of Applicability dated: 03.01.2017.

Original cycle start date: 03.08.2011.

Recertification / Audit date: 03.07.2017.

Recertification cycle start date: 04.08.2017.

Subject to the sustained satisfactory operation of the organisation's Management System,
this certificate expires on: 13.07.2020.

Certificate Number: LVRIG72317D

Version: 1 Expiry date: 07.07.2017.

Certification body address: Bureau Veritas Latvia SIA, Dzirnavu street 17a, Riga, LV-1005, Latvia

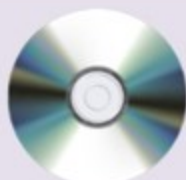
Further clarifications regarding the scope of this certificate and the applicability of the
management system requirements may be obtained by contacting the organisation.
To check this certificate validity please call +371 67121246



Product Portfolio



+



+



+



Equipment **Image processing**
software

Information reference
systems

Specialized training

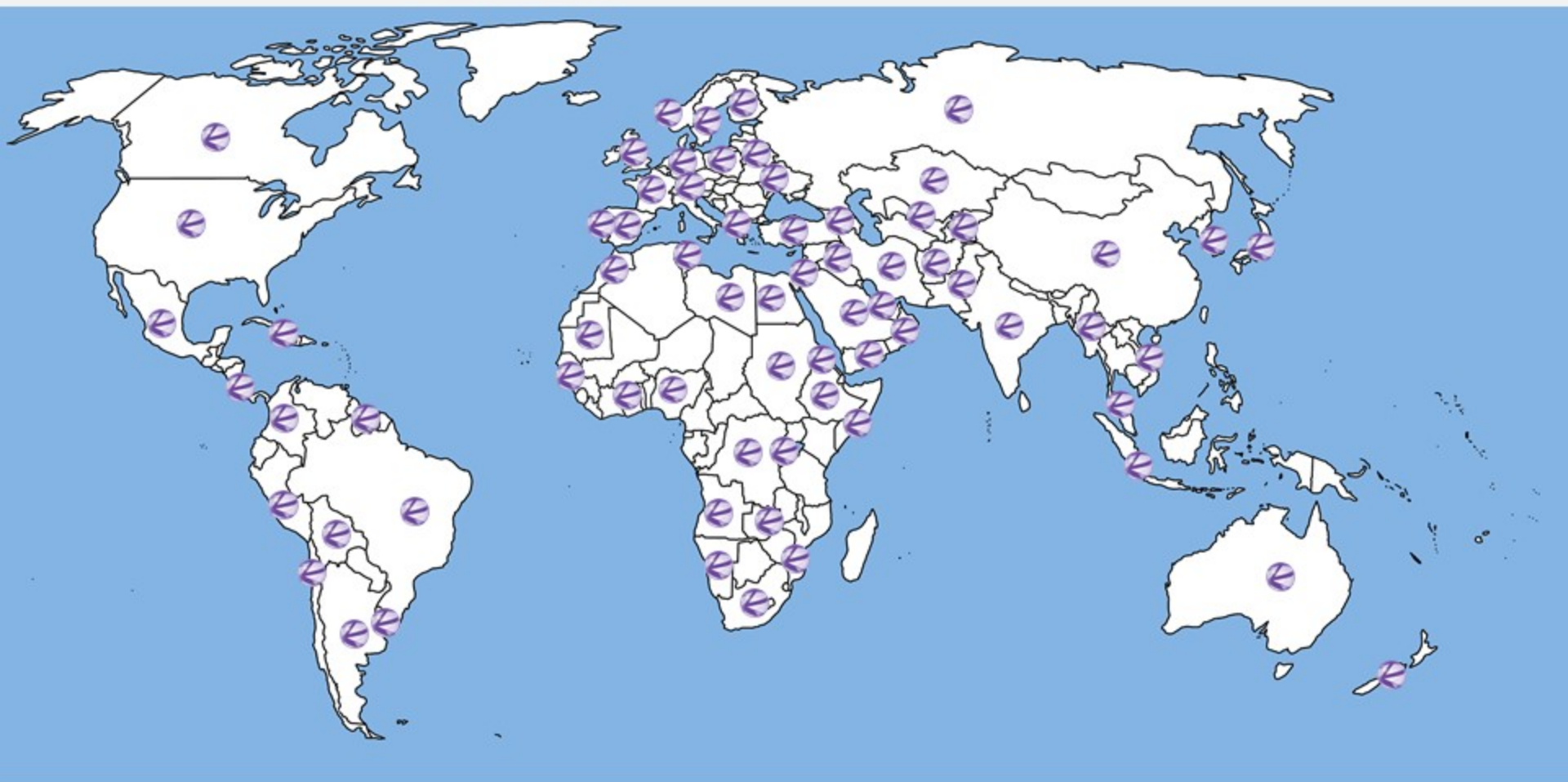
- more than **50** models
- **100** modifications





Country References

Over 130 countries, 70 distributors





Country References

Over 130 countries, 70 distributors

- Ministry of internal affairs
- Ministry of foreign affairs
- Border control police
- Immigration departments
- Embassies
- Criminalistic laboratories
- Law enforcement agencies
- Customs
- Banks
- Printing companies
- Airlines
- Hotels
- Mobile operators





Product Groups



Express documents
verification



Advanced documents
verification



Machine assisted
document verification



Vehicles and weapons
number verification



Information Reference
Systems



Customized solutions



Software



Printed products



Specialized training



Express Document Verification



Magnifiers

**Regula 1001M, 1002M,
1003M, 1004M**



Regula 1005



Regula 1010-1025



Model	Zoom	W	OW	UV 400	UV 365	UV 313	UV 254	OVD	W/U V	Polarized UV	RR	AS
1010	x10	V			V							
1011	x10	V			V						V	
1013	x10	V			V							V
1019	x10	V			V	V	V				V	V
1025	x10	V	V	V	V	V	V	V	V		V	V
1021	x10	V								V		
1022	x20	V			V							



Express Document Verification

Regula 4103



Regula 4205D



Regula 4115



Regula 4303M



The devices are designed for authenticity control of passports, ID cards, visas, security papers, banknotes and other documents with security features.



Express Document Verification

Regula 4115

The devices are designed for authenticity control of passports, ID cards, visas, security papers, banknotes and other documents with security features.



***Integrated database of passports and banknotes**

Technical specifications:

- on screen magnification — x2
- screen size — 7 inches
- screen resolution — 800×480 pixels
- Magnetic sensor

Light sources:

1. incident white
2. 2x oblique white
3. IR 830 nm
4. IR 950 nm
5. 2x oblique IR 880 nm
6. UV 365 nm
7. transmitted white
8. transmitted IR 880 nm



Express Document Verification

Regula 4205D



Technical specifications:

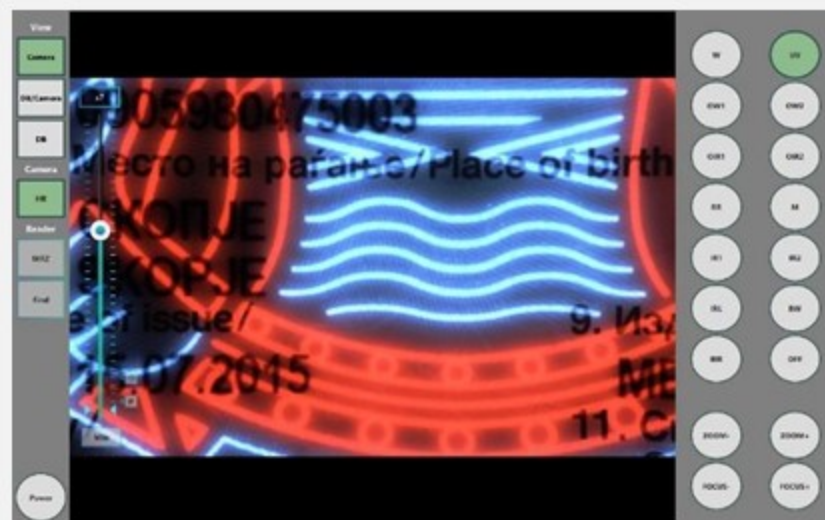
- optical magnification — x26
- screen size — 10,1 inches
- screen resolution — 2048×1276 pixels

Light sources (LEDs):

1. incident white
2. 2x oblique white
3. coaxial white
4. transmitted white
5. incident IR 870 nm
6. incident IR 950 nm
7. 2x oblique IR 870 nm
8. transmitted IR 870 nm
9. UV 365 nm
10. green incident 505 nm



Regula 4205D





Advanced Document Verification

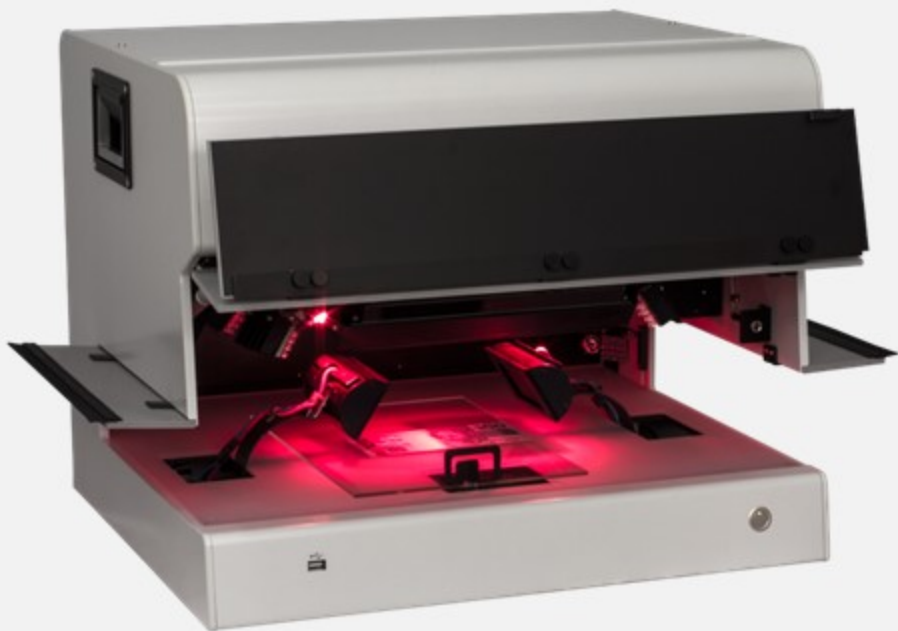




Video Spectral Comparator

Regula 4307

The device is intended for advanced authenticity verification of passports, ID cards, travel documents, passport stamps, banknotes, driving licenses, vehicle registration certificates and other vehicle related documents, signatures and handwriting fragments, paintings, revenue stamps and other security documents.



CMOS video camera, Mp	— 5 (optional 14)
Resolution, pixels	— 2592x1944
Magnification optical, times	— 30
Magnification for 81cm monitor,	— up to 840
PC interface	— USB 3.0



Video Spectral Comparator

Regula 4307



Ambient light sources:

400 nm*

450 nm*

470 nm*

505 nm*

530 nm*

590 nm*

620 nm*

640 nm*

UV 400 nm

UV 365 nm

UV 313 nm

UV 254 nm

IR 700 nm

IR 780 nm

IR 860 nm

IR 940 nm

**separate LEDs, can be
used in combinations*

(255 combinations)

White incident

IR 850-1100 nm for Anti-
Stokes

Transmitted light sources:

White

IR

UV 365 nm

Focused White and IR

Coaxial polarized:

White

Oblique light sources:

6×White

6×IR

OVD light sources:

Horizontal (31 LEDs)

Vertical (9 LEDs)

TOTAL: 35 light sources

23 filters

All light sources are LEDs except UV 313, 254 nm lamps

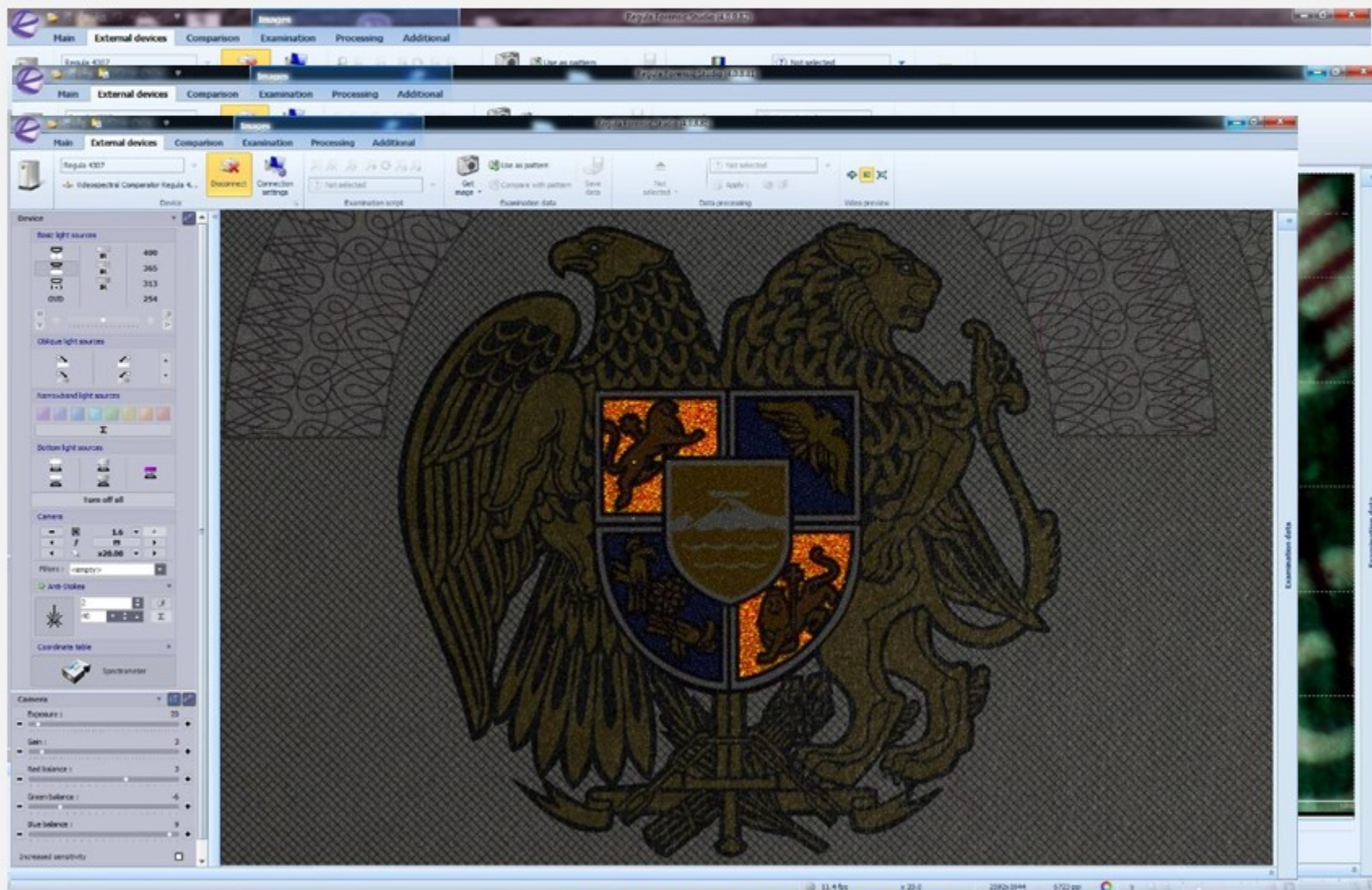
www.regulaforensics.com



Video Spectral Comparator

Functionality

1. Hyperspectral imaging module





Video Spectral Comparator

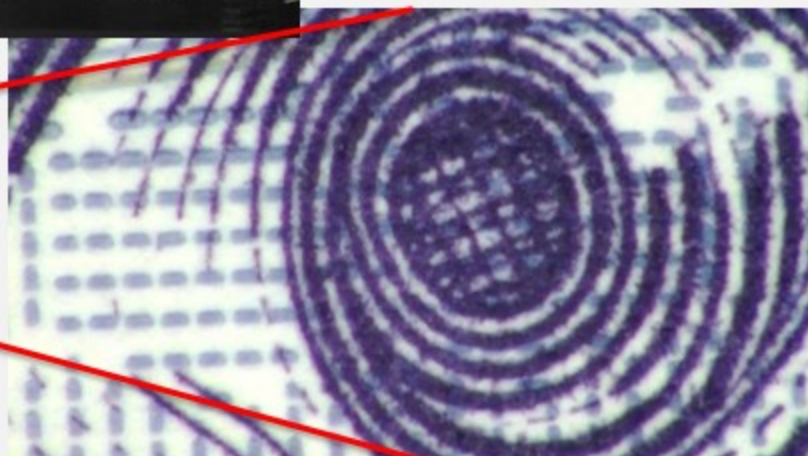
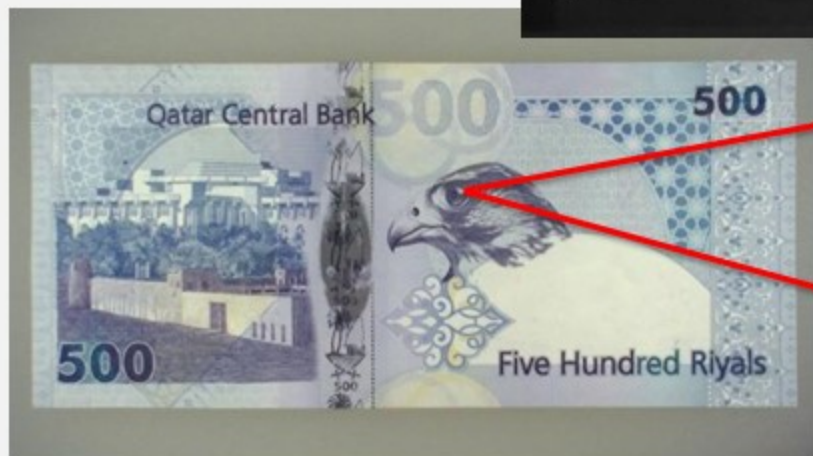
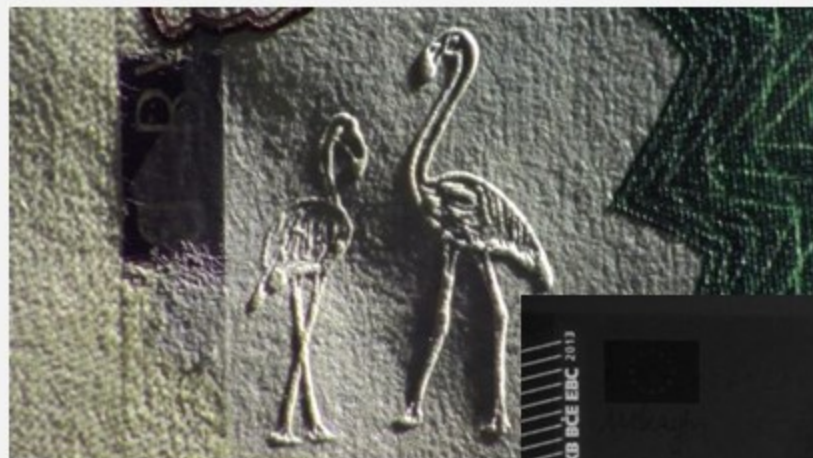
Accessories (included and optional)

1. Spectral luminescent magnifier Regula 4147
2. Visualizer of magnetic properties Regula 4197
3. Thermostage Regula 4168
4. Trinocular Stereo Microscope Regula 5003



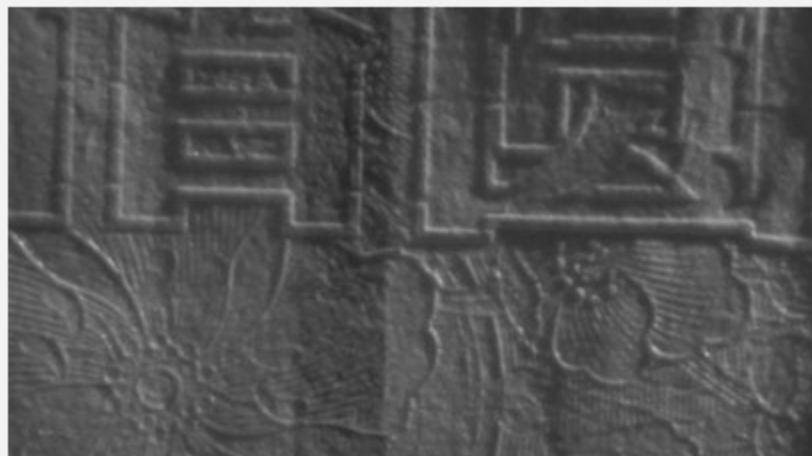


Regula 4307

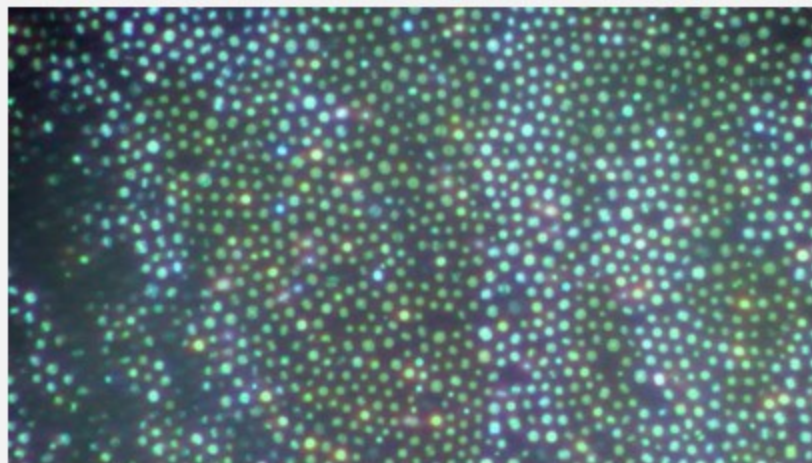




Regula 4307



Oblique white and IR (intaglio fragment, 100 CNY)



3M confirm laminate (fragment, Australian passport)



Regula 4307



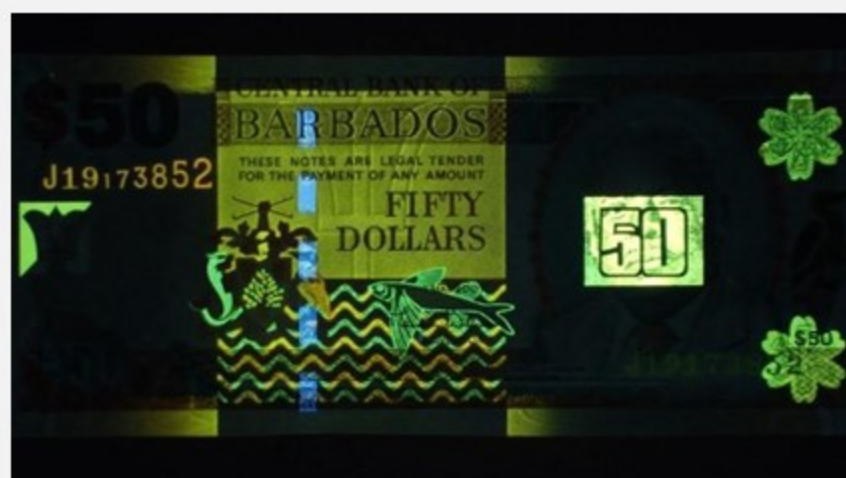
UV 400 nm (50 BBD)



UV 365 nm (50 BBD)



UV 313 nm (50 BBD)



UV 254 nm (50 BBD)



Video Spectral Comparator

Regula 4305DMH

Design of the workstation allows performing **expert level** examination of passports, driver's licenses, IDs, technical and vehicle documents, visas and seals, banknotes, securities and other protected documents.



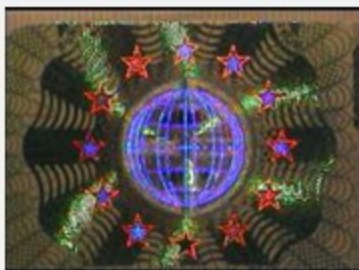
Features:

- 4 Mp camera, USB 3.0,
- Resolution 1920x1080 (Full HD)
- x20 zoom
- 24 light sources
- 6 filters
- all light sources are LEDs (except UV 313, 254 nm)
- OVD examination
- Latent (IPI) image visualizing
- e-Passport reading
- 1D and 2D barcode data reading
- Machine readable zone data reading
- IR luminescence examination of handwriting documents
- Retroreflective protection examination

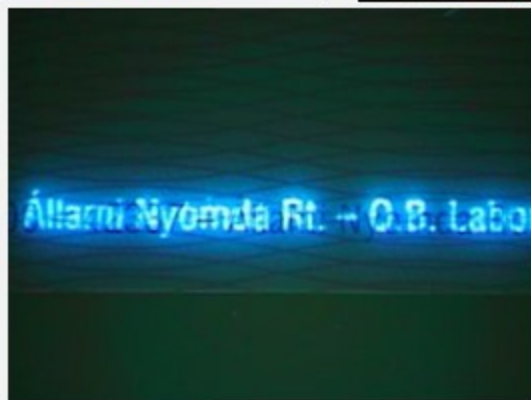


Regula 4305DMH

OVD



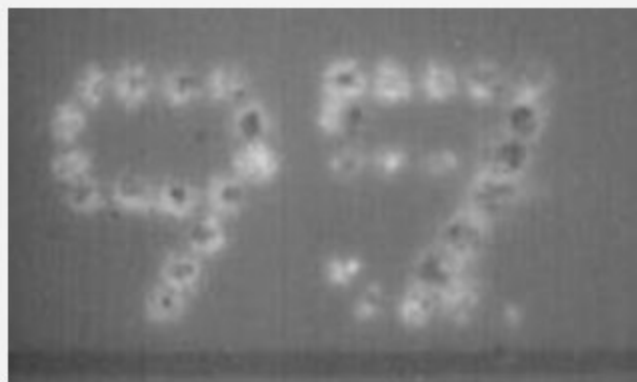
White



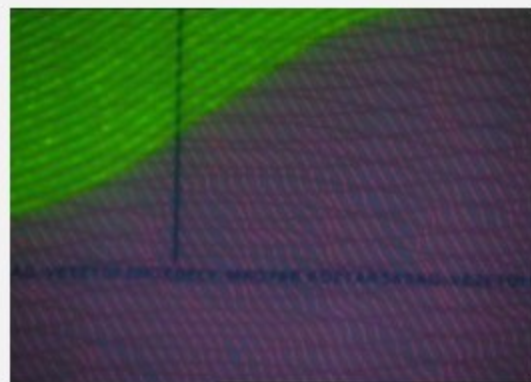
Microtext, UV 365 nm



UV 400 nm



IR luminescence



Background grid, UV 313 nm



Coaxial light



Video Spectral Magnifier

Regula 4177



Portable USB 2.0 spectral luminescent magnifier for authenticity examination of travel documents, banknotes, securities as well as for examination of special pigments and materials properties.

Technical specifications:

- Optical Zoom — x2
- Digital Zoom — x4
- Data and power interface — USB 2.0
- Resolution — 2500 ppi
- Viewing field — 12.5 x 10mm
- Image resolution — 1280x1024 pixels

Regula 4178



Light sources:

- incident white
- IR 870, 940 nm
- UV 365 nm
- oblique white, oblique IR 870 nm
- green 530 nm (for IR luminescence)
- high intensity IR 980 nm (for anti-Stokes)

Camera filters:

- IR high pass (700 nm)
- Low pass (670 nm)

Regula 4167S



Video Spectral Magnifier

Regula 4177



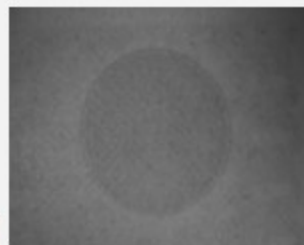
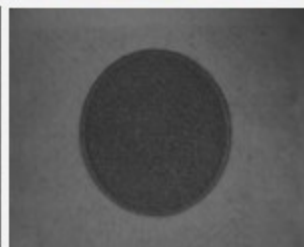
Zoom x1, x4



Oblique



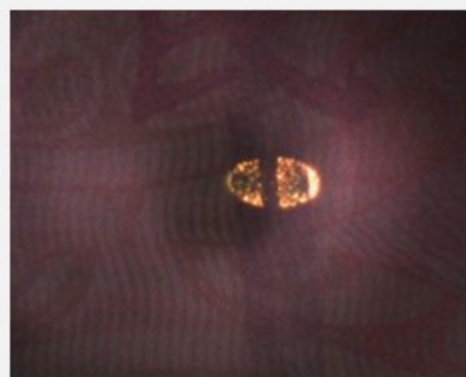
IR
luminescence



IR 870, 950



UV 365



anti-Stokes



Spectral luminescent microscope

Regula 5001MK.01



Spectral luminescent microscope is intended for forensic examinations and verification of documents authenticity

Technical specifications:

- Dimensions — 450x450x600 mm
- Weight — 20 kg
- Connection interface with PC — USB 2.0
- Image size — 2048x1536
- Video output — HD, Full HD, Full Frame
- Maximum format of examined objects — 420x300 mm
- Maximum thickness of examined objects — 170 mm

Light sources:

- UV — 365 nm
- IR — 870, 950 nm
- High-intensity light — 455, 470, 505, 530, 590, 627 nm
- High-intensity IR — 980 nm
- Oblique light — 4 x white, 4 x IR 870 nm
- Ring — 36 x white, 36 x IR 880 nm
- Bottom light — White, IR 870, UV 365 nm
- Filters — 420-1100, <700, >700, >650, >670



Spectral Luminescent Microscope

Regula 5001MK.01



Field of view, mm	Zoom, times for 21" monitor (533.4mm)
Digital channel. Image size 2048x1536	
21.5x16	19.9
1.6x1.2	266.7
Visual channel	
39	4.8
2.1	98



IR oblique



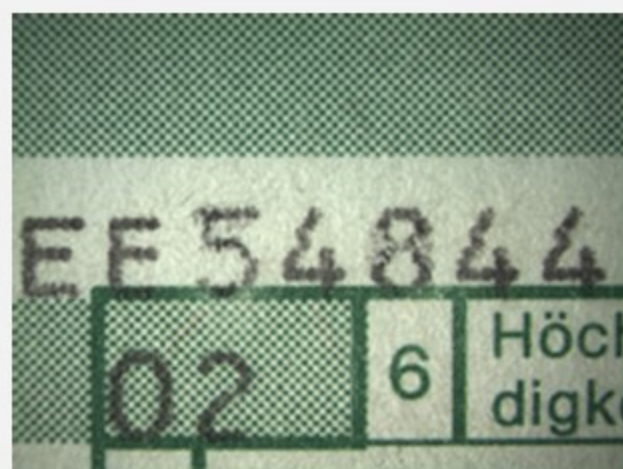
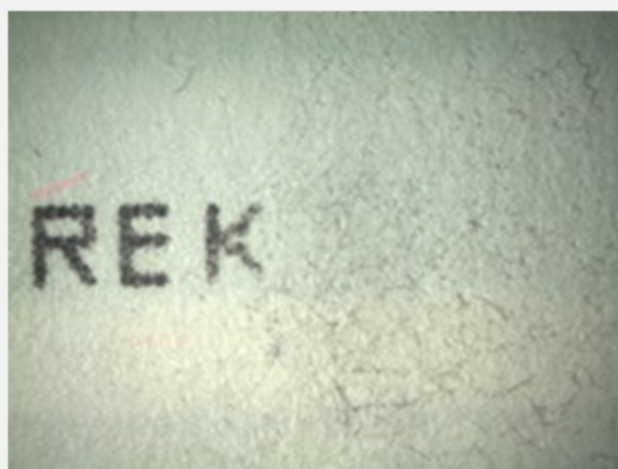
White



UV 365



Spectral Luminescent Microscope



White



Transmitted white
(see-through register)



IR-luminescence

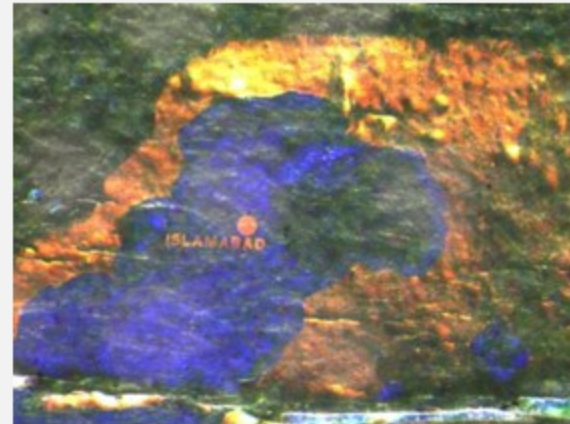




Spectral Luminescent Microscope



Passport of Pakistan

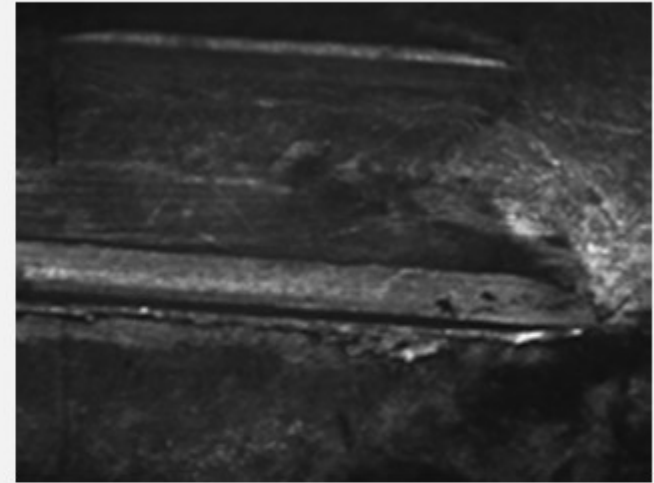
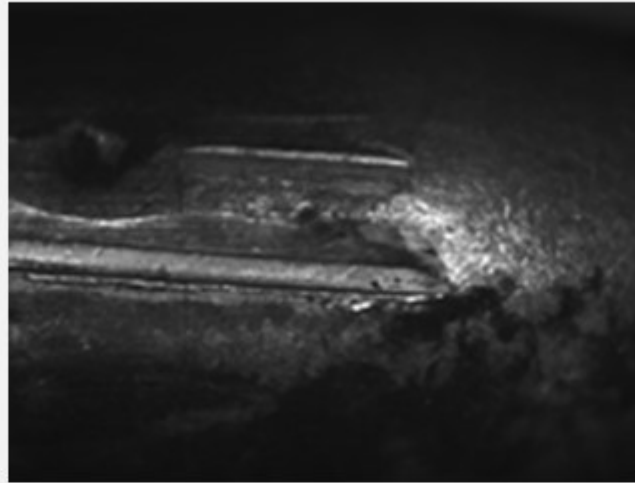




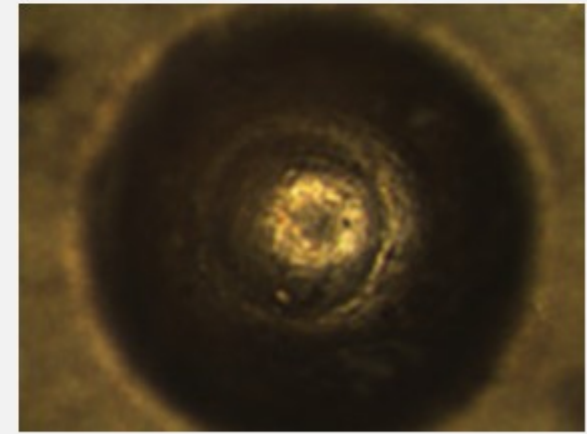
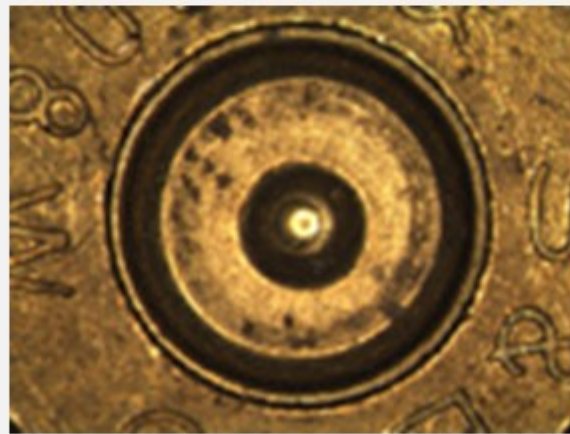
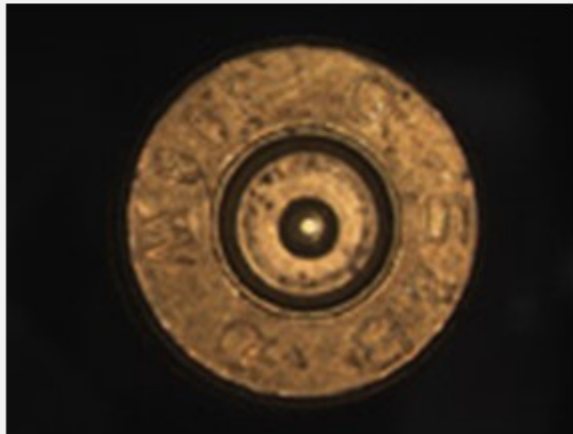
Spectral Luminescent Microscope



**Bullet and
cartridge case
analysis stand**



IR



White

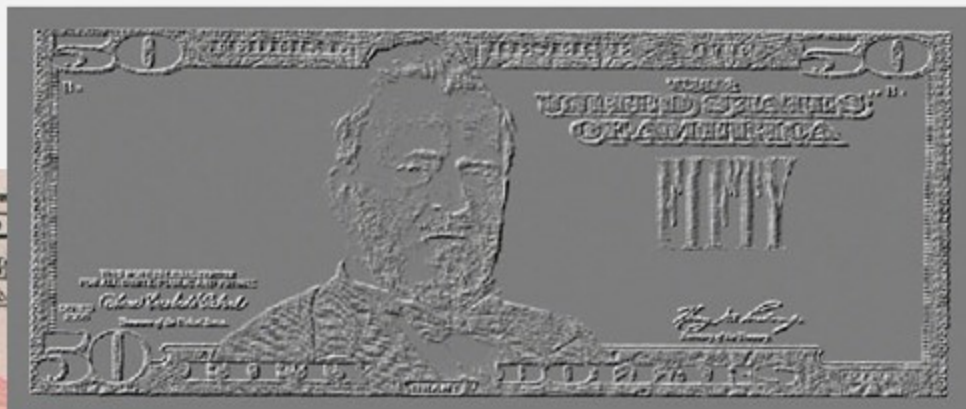


Magneto-optical Scanner

Regula 7701M



- Construction and comparative analysis of magnetic patterns of examined documents
- Examination of magnetic printing elements (magnetic dyes, fibers, tapes, etc.)
- Reading of invisible magnetic strokes and codes
- Examination of damaged documents
- Estimate of magnetic induction distribution for magnetic dyes



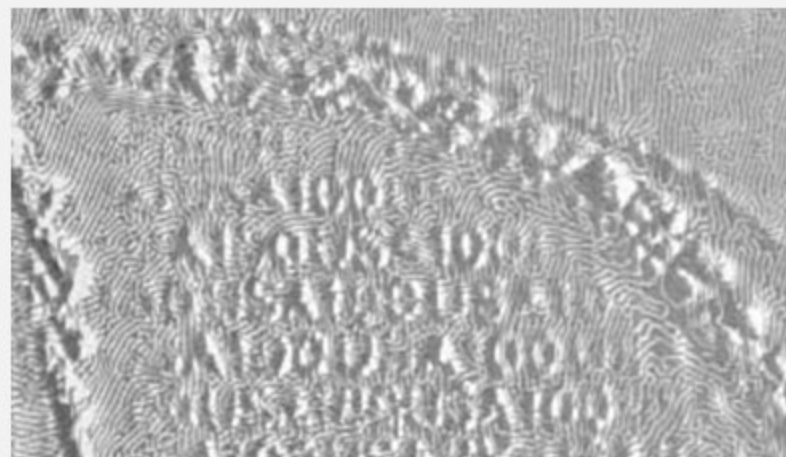


Visualizer of Magnetic Inks

Regula 4197



\$1



\$100



Visualizer of Holographic Images

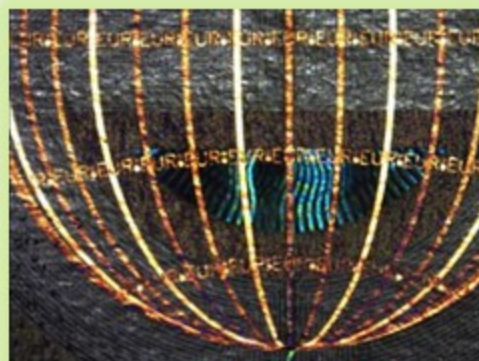
Regula 2303



x1



x2



x4



x12

Technical specifications:

- Camera sensor — 5 Mp;
- Images resolution — 27500/710 dpi;
- Field of view — 92x69 mm;
- Illuminator step, min — 1°;



Visualizer of Holographic Images





Visualizer of Holographic Images





Visualizer of Holographic Images

Detection of authentic holograms (200 €)



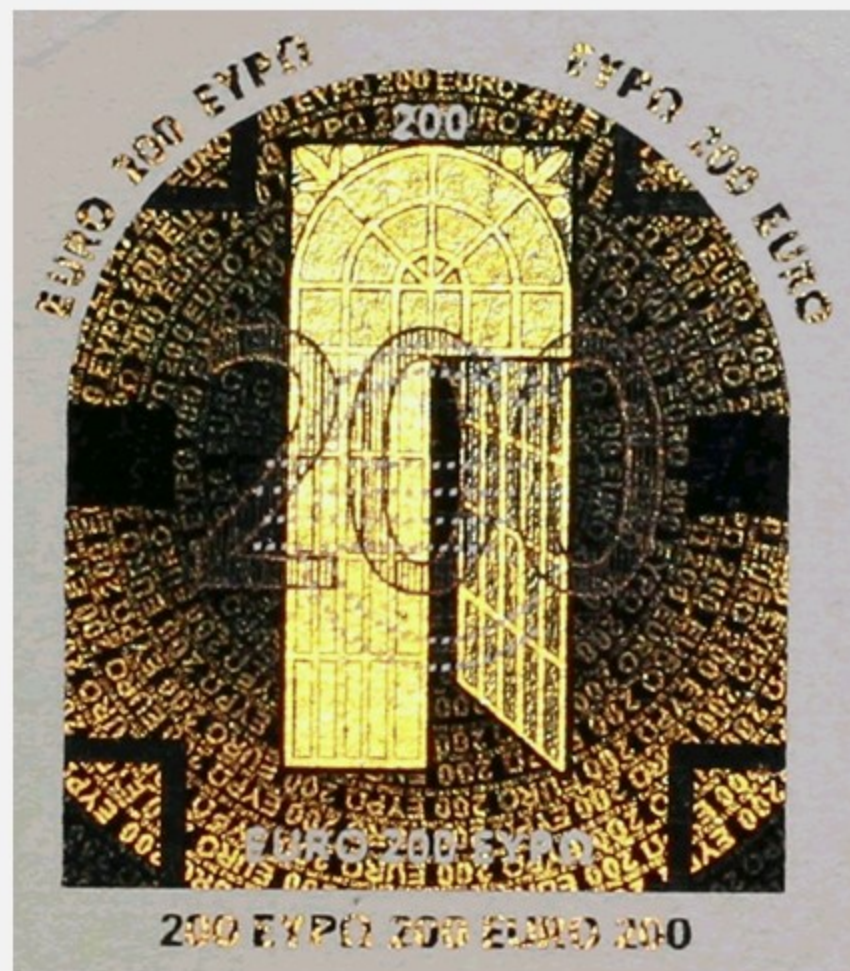
Displacement of cliché while cutting, match 97%

www.regulaforensics.com



Visualizer of Holographic Images

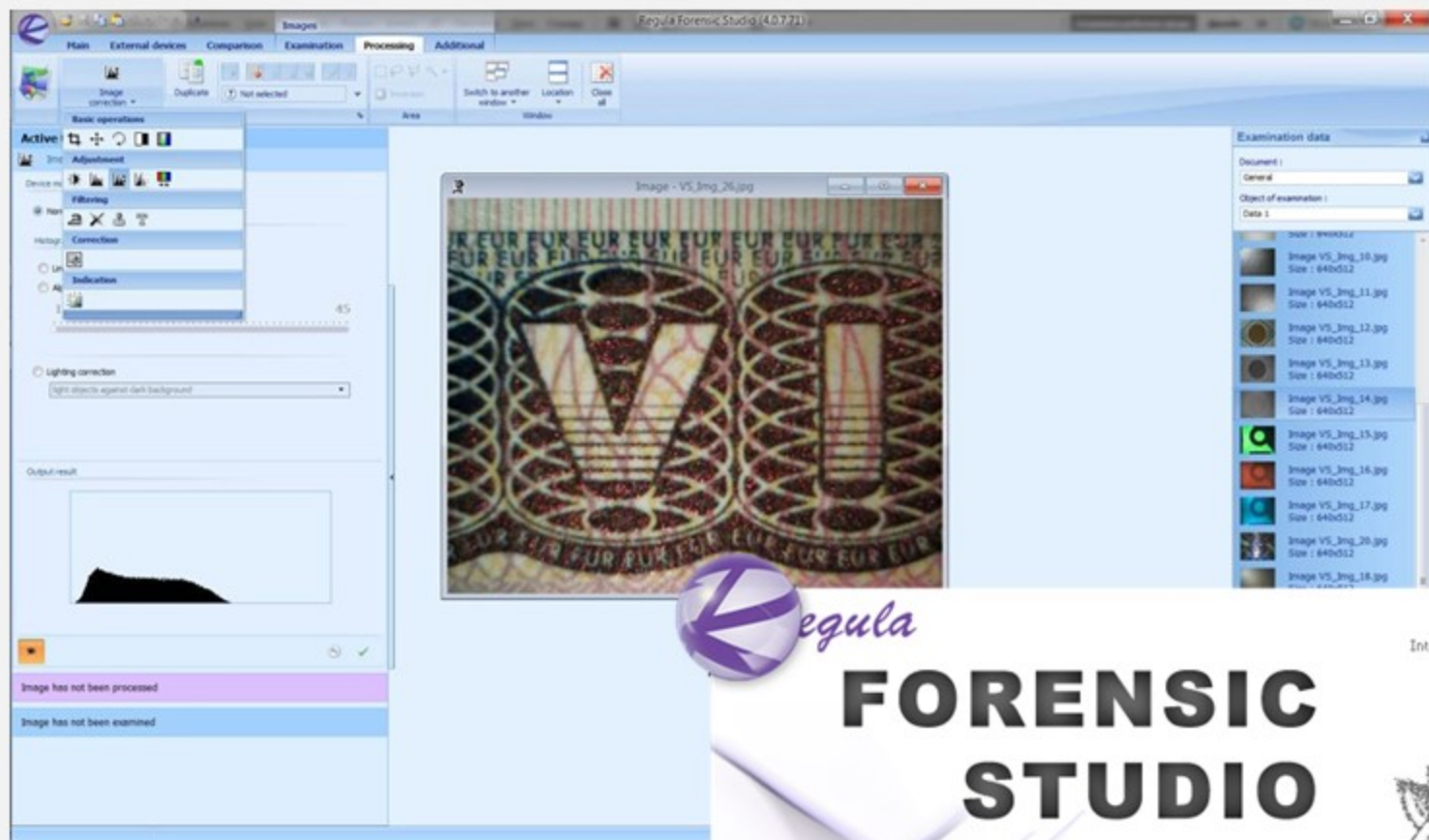
Detection of counterfeit holograms (200 €)



discrepancy
(match 18%)



Regula Forensic Studio (RFS)



Regula

FORENSIC STUDIO

Professional Edition
Version 4.0.7.71

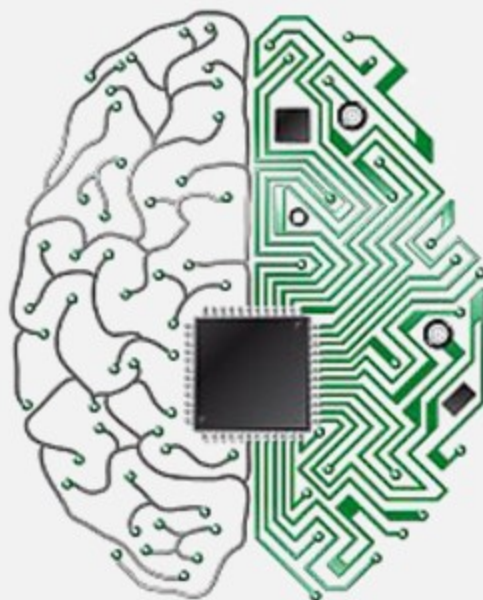
www.regulaforensics.com

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Intel® IPP, v7.0 build 205.68





Machine Assisted Document Verification





Document Readers



**Mobile
MRZ reader**



**Desktop
ID-1 size reader**



**Desktop
full-page readers**



Mobile full-page readers



High-resolution full-page reader



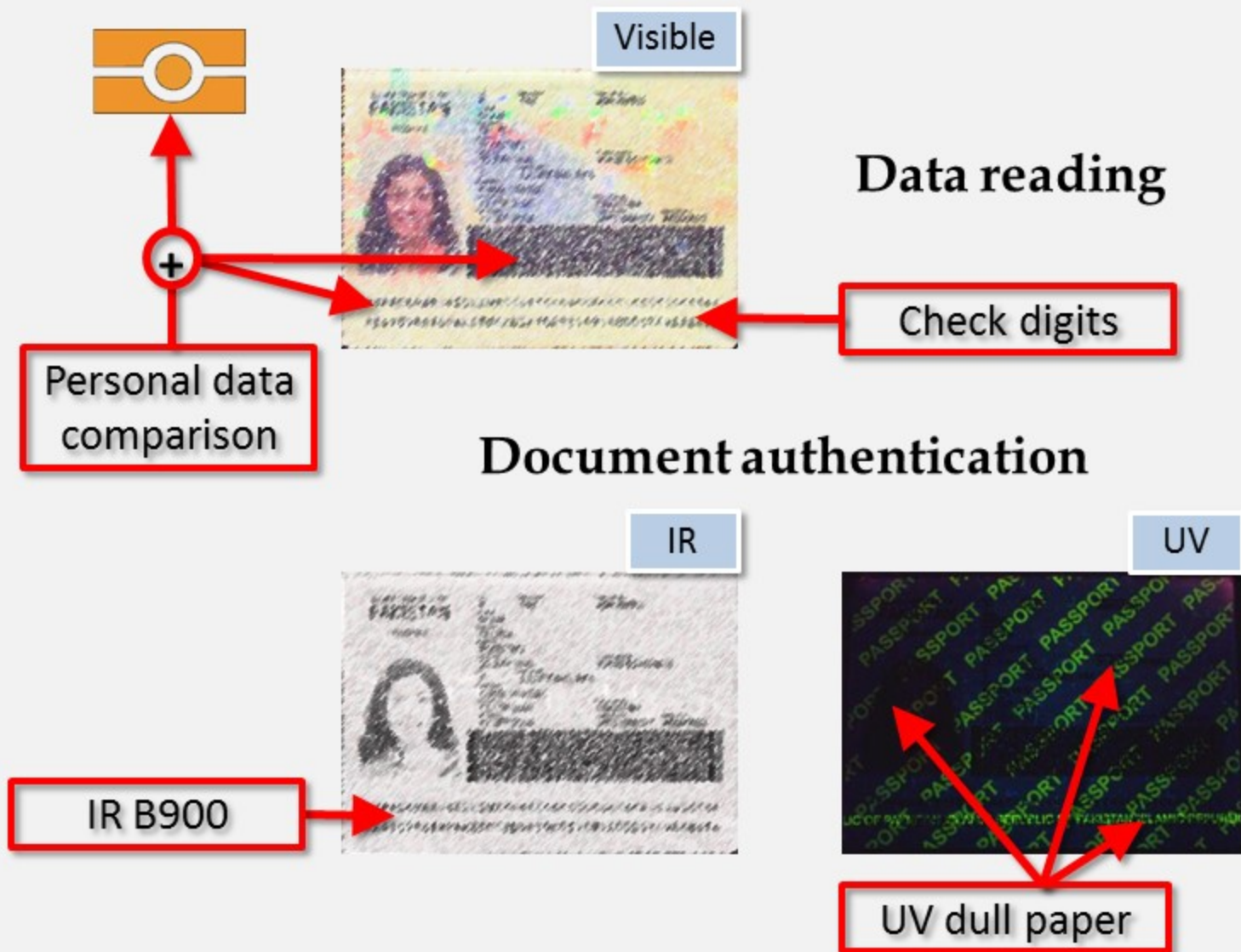


Full-page Document Readers

- Full-page scanning of ID-1 (identification card), ID-2 (visa, passport-card) and ID-3 (passport) formats under White, UV, IR and Co-axial lights
- Reading out textual information (OCR) of machine-readable zone (MRZ) and visual inspection zone (VIZ), reading out 1D and 2D barcodes
- Retrieving data from contact and contactless smart cards (Smart Card, RFID)
- Automatic verification of document authenticity and its data filling-in accuracy by analyzing textual, graphic and invisible (IPI) information in various light ranges

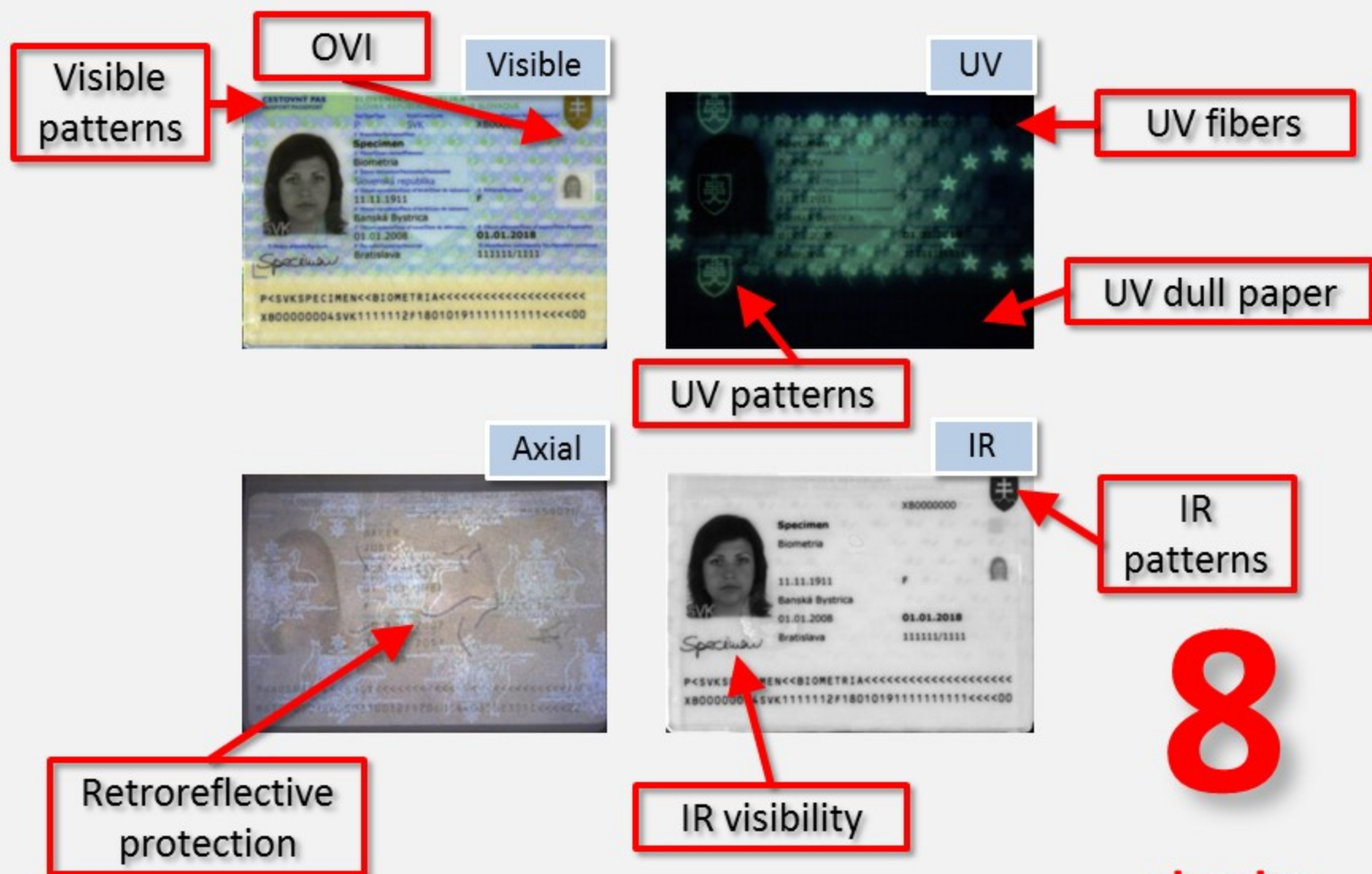


MRTD Processing





Blank & Laminate Substitution Check



8

checks



Photo Substitution Check

Visible

Hidden image



Photo embedding type

+

IR



IR visibility

UV

Ghost photo

UV dull paper



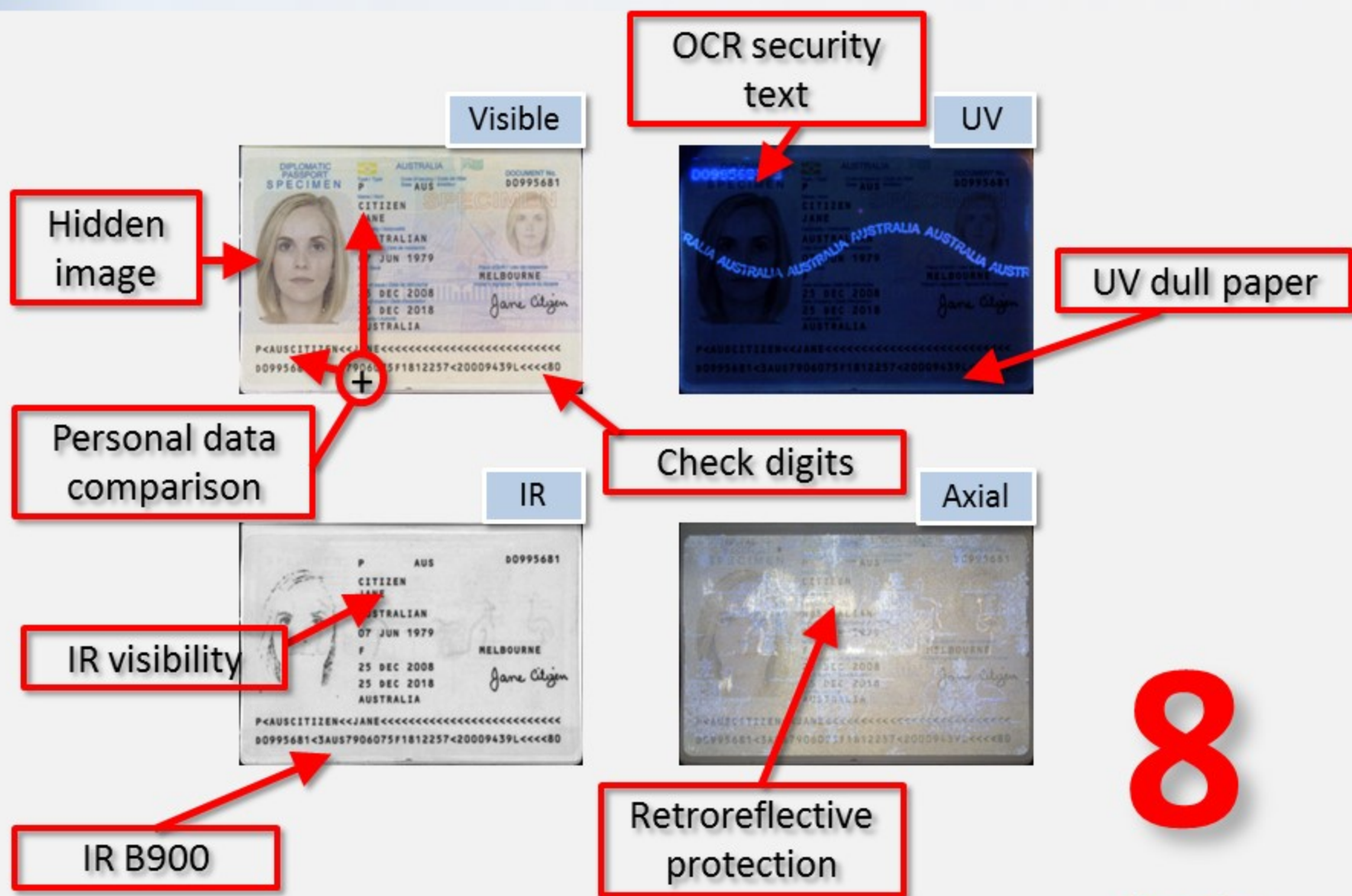
Axial

Retroreflective protection



6

checks



checks



Desktop Reader

Regula 70X4M



Small-sized desktop full page passport reader with no moving parts inside

Automatic reading and authenticity verification of passports, IDs, visas, driver's licenses and other identification documents

Optical character recognition, reading of barcodes and RFID

Small-sized desktop full page passport reader with no moving parts inside

Automatic reading and authenticity verification of ID cards, driving licences, bank cards, social security cards and other documents

Optical character recognition, reading of barcodes, RFID and smart cards

Regula 72X3





Mobile Full-page Reader

Regula 7308



The most compact mobile full page passport reader with no moving parts inside.

Automatic reading and authenticity verification of passports, IDs, visas, driver's licenses and other identification documents.

Optical character recognition, reading of barcodes and RFID.

Technical specifications:

- Size — 225×170×102 mm
- Viewing field — 128x88 mm
- Resolution — 380 ppi
- Light sources — white, IR 870 nm, UV 365 nm, co-axial
- Image size — 2048x1536 pixels
- Weight — 1.7 kg
- Battery life — 7.5 hours (hot replacement)
- Built-in PC: CPU — Intel® Atom™ Z3735F quad core 1,33 GHz, DDR RAM, GB — 2
- Protection rating — IP54





High resolution document reader

Regula 8850

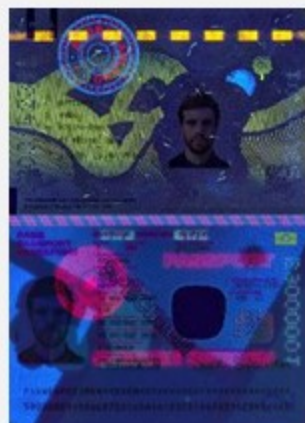


Technical specifications:

- Camera – 50,3 Mp
- View field, max – 187,5x125 mm
- Resolution, max – 1630 dpi (microtext visibility)

Light sources

- White (incident, transmitted, oblique, coaxial)
- White (45 sources) for OVD examination
- Infrared (incident 720, 860, 940 nm; transmitted)
- Ultraviolet – 365 nm
- Cyan – 505 nm
- High intensity convertible IR – 800-1100 nm



Reflected UV and IR light



Hologram examination

www.regulaforensics.com



High-intensity convertible
IR (980 nm) light



Information Reference Systems (IRS)





Information Reference Systems

IRS «PASSPORT»

(images of passports, ID cards, visas and other identity documents)



IRS «AUTODOCS»

(images of driving licenses and vehicles registration documents)



IRS «CURRENCY»

(images of banknotes)



IRS «FRONTLINE DOCUMENTS SYSTEM»

(«Passport» + «Autodocs»)

IRS «SECURE DOCUMENTS ULTIMATE»

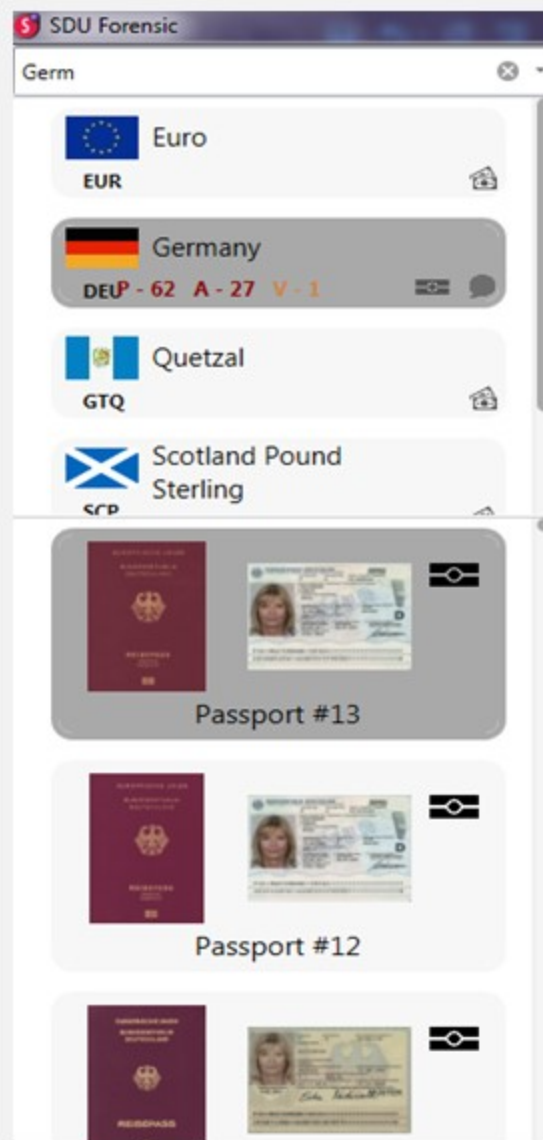
(«Passport» + «Autodocs» + «Currency»)



Information Reference Systems

CONTAINS:

- list of countries and documents of this country





Information Reference Systems

CONTAINS:

- list of countries and documents of this country;
- list of document pages and Images of this pages in lights:
 - white;
 - IR 870 nm;
 - UV 365 nm;
 - 254 nm





Information Reference Systems

CONTAINS:

- list of countries and documents of this country;
- Images of document pages in lights: white; IR 870 nm; UV 365 nm and 254 nm;
- **Images of banknotes in lights:**
 - white;
 - IR 870 nm and >940 nm;
 - UV 365 nm and 254 nm;
 - IR luminescence;
 - magnetic ink patterns





Information Reference Systems

CONTAINS:

- list of countries and documents of this country;
- Images of document pages in lights: white; IR 870 nm; UV 365 nm and 254 nm;
- Images of banknotes in lights: white; IR 870 nm and >940 nm; UV 365 nm and 254 nm; IR luminescence; magnetic ink patterns;
- **security features and techniques such as microprinting, intaglio, letterpress, watermarks, holograms, etc.;**





Information Reference Systems

CONTAINS:

- list of countries and documents of this country;
- Images of document pages in lights: white; IR 870 nm; UV 365 nm and 254 nm;
- Images of banknotes in lights: white; IR 870 nm and >940 nm; UV 365 nm and 254 nm; IR luminescence; magnetic ink patterns\$
- security features and techniques such as microprinting, intaglio, letterpress, watermarks, holograms, etc.;
- **general description of the document or banknote**

Country: Germany

Code: DEU

Creation date: 21.09.2017

Document name: Passport

Database: Passports

ID: 15753

RFID chip: holder's data page

General view: Book block

Page connection method: Stitching thread

Page description: 90x125 mm, with rounded corners, paper

Cover description: 90x125 mm, foil, with rounded corners, of synthetic material, soft, vinous

Data page description: 90x125 mm, with rounded corners, plastic

Pages numbering: all pages

Document section: important information, pages 4-6

Document section: holder's data, pages 1

Document section: visas, pages 7-47

Document section: notes / remarks / amendments & endorsements, pages 2-3

Additional pages count: 2



Information Reference Systems

DATABASE	COUNTRIES	DOCUMENTS	IMAGES		
			Brief	Express	Forensic
Passport	186	2 523	21 499	51 204	128 605
Autodocs	114	883	3 411	5 725	13 729
Currency	170	3 069	23 977	94 258	130 970
Frontline Documents System	189	3 406	24 910	56 929	142 334
Secure Documents Ultimate	189	6 475	48 887	151 187	273 304

available on June, 2018





Information Reference Systems

Special features and advantages:

- Multilingual (English, German, French, Arabic, etc.);
- Weekly updates;
- High resolution images under different light ranges;
- Detailed description of every document;
- Different version: Forensic, Express, Brief;
- Server and local installation



Document Builder

Document builder

Document info Pages

Document creation status: * X + - Document ID comment: *

Document name: Accreditation passport Country: Afghanistan * X + - Fake document: ☐

Document type: * X + - Document code: * X + -

Document subtype: * X + -

RFD location: * X + - Blank type: * X + -

Blank info:

Book description:

Page

Pages width: 0 Pages height: 0 Page corner shape: * X + -

Pages material: * X + -

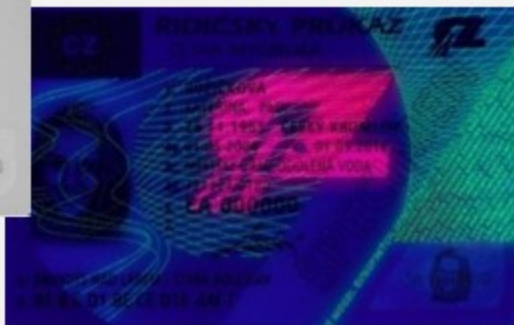
Document sections:

Fibers:

Comment:

Document type not specified

Optional software module for adding documents with description and images into IRS or modifying existing documents

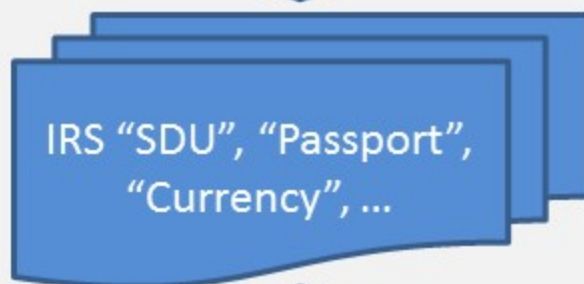




IRS Management System



Self update



Regula update





Online IRS

www.internationalreferencesystems.com

www.irs-banknote.com

www.irs-passport.com

- Annual subscription
- 27/7/365 access
- Weekly updates
- Multilingual



www.regulaforensics.com



Printed Products





Atlas of Passports

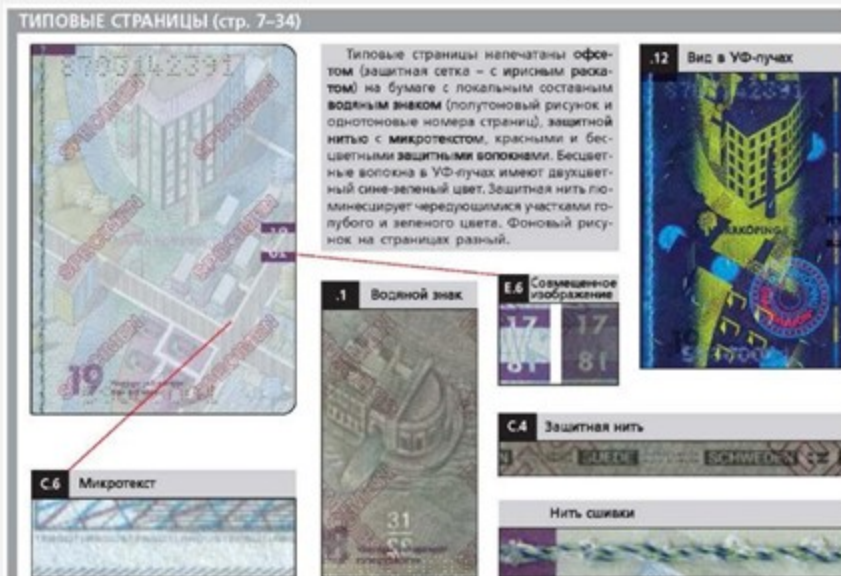
Atlas of passports is a digest of classified information for operative control of the authenticity of passports and of other documents certifying the holder's identity



Atlas of passports consists of:

- volumes — **10** pcs, **178** countries
- 1 volume — **200** pages.
- 1 page — **1** document

Atlas of passports is accessible in any language





Banknotes Reference Book

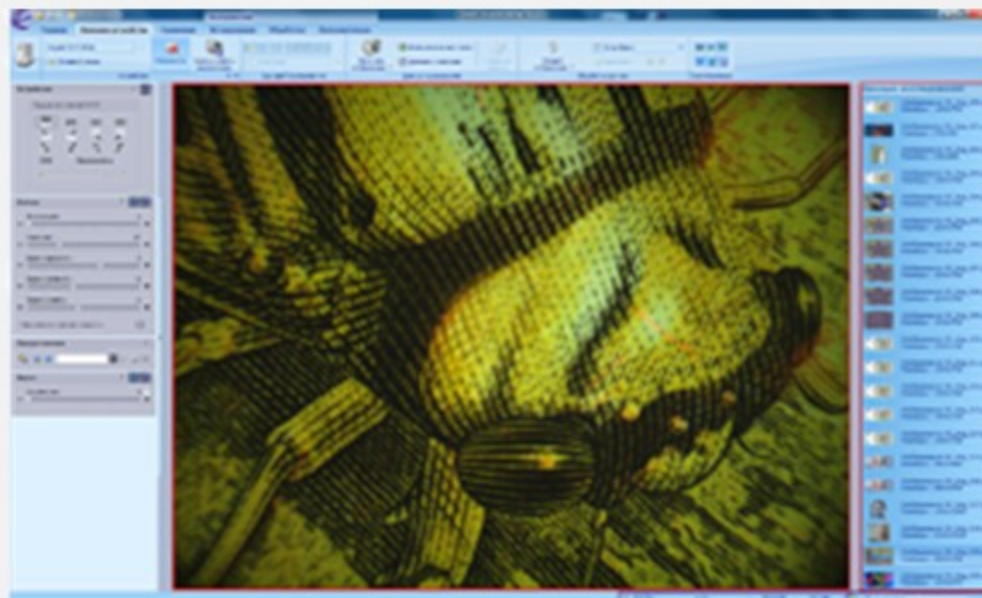
The reference books are intended for express authenticity verification and advanced examination of banknotes and coins from different countries of all denominations and series



РУБЛИ		МОНЕТЫ		
	1 РУБЛЬ	1 РУБЛЬ	2 РУБЛЯ	5 РУБЛЕЙ
				
Диаметр, мм	20,50	20,50	21,00	25,0
Толщина, мм	1,50	1,50	1,80	1,80
Масса, г	3,25	3,25	5,30	6,45
Цвет	белый	желтый	белый	белый
Металл	НИКОМЕТАЛЛ МЕДИ-НИКЕЛЬ-ОСНОВ	НИКОМЕТАЛЛ МЕДИ-НИКЕЛЬ-ОСНОВ	НИКОМЕТАЛЛ МЕДИ-НИКЕЛЬ-ОСНОВ	БЕЛЫЙ МЕТАЛЛ МЕДИ-НИКЕЛЬ-ОСНОВ
Гурт	рифленый (110 рифлений)	рифленый (130 рифлений)	прерывисто-рифленый (12 выступов по 7 рифлений)	прерывисто-рифленый (12 выступов по 5 рифлений)



Software





Software



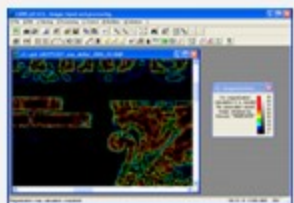
Software «Regula Forensic Studio»



Identification reference system «Autovin»



Software «Document Builder»



Software «Cadr»



Software «Nuca/Eyer»



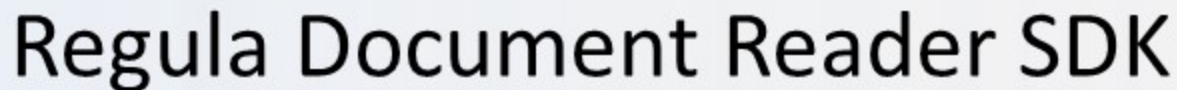
Regula document reader SDK for mobile applications



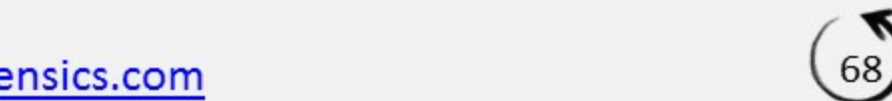
Regula Document Reader SDK

Regula Document Reader SDK for mobile devices is a robust, secure and cost-effective solution for instant filling in forms with personal data from passports, IDs, visas and driver's licenses





- [illegible]





Vehicle Identification Number (VIN) and Weapon Number Verification





Complex for detection of VIN falsifications

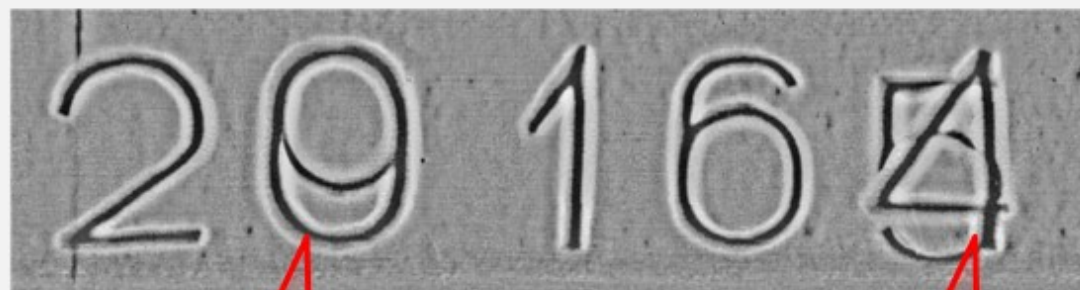
Regula 7505M



Device is intended for non-destructive, quick and efficient examination of metal surface, structure and authenticity of the VIN.



Visual image



Magnetic image

9 -> 0

5 -> 4



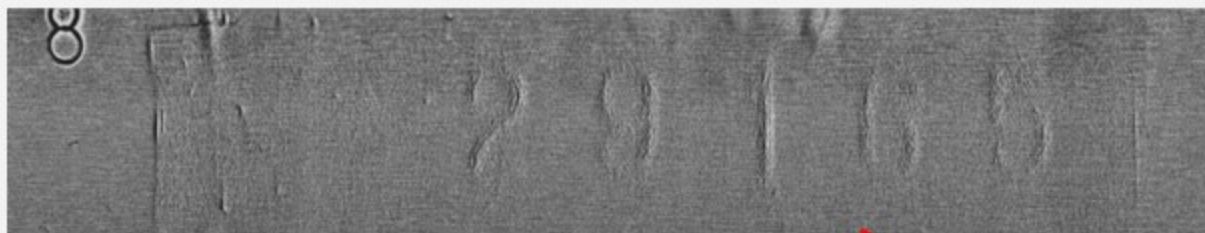
Eddy-current magnetographing device

Regula 7515M

- Acceptable thickness of non-ferromagnetic layer — 0.5 mm
- Acceptable thickness of remote surface metal layer — 1.0 mm
- Approximate time for VIN magnetogram entry — 15 sec
- Operation in autonomous mode — 3 hours



Visual image



Magnetic image

29165

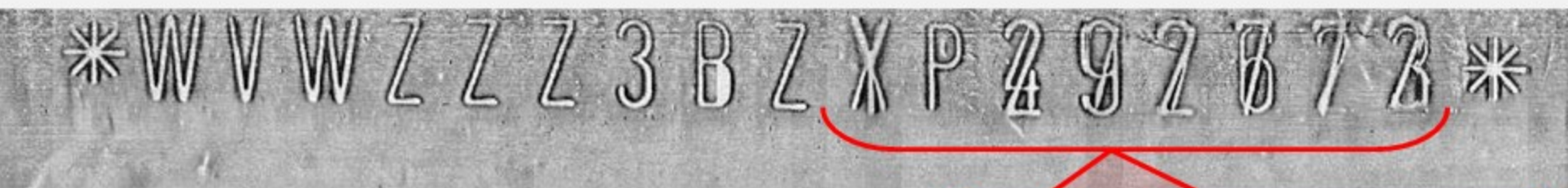


VIN falsification samples



8 -> 6

6 -> 0



XP477623 -> YP292772



Polished

Part of remaining data

Part of remaining data



VIN falsification samples





Forensic Examination of Firearms and Ammunition

Regula 7517

The device is intended for authenticity verification, detection of firearms and ammunition identification number falsification and restoration of original identification numbers

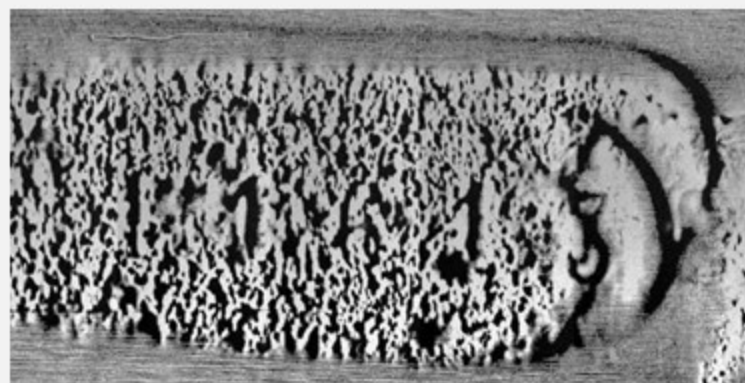
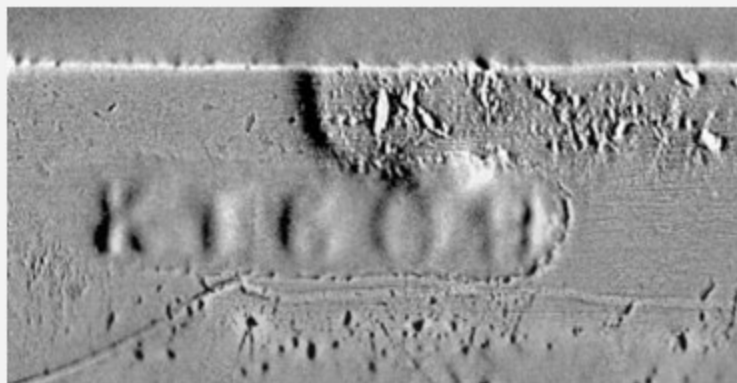




Forensic examination of firearms and ammunition

Regula 7517

Regula 7517 is designed as a compact complex for desktop use





Special Equipment and Customized Solutions





Bullet speed measuring system

Regula 6001



The unit for measuring the flight speed of bullet, ballistic characteristics, quality of ammunition and for the definition of wear and tear of small arms gun barrels, calculation and correction of corresponding results.

Technical specifications :

- Measuring block size — 260x180x90 mm
- Sensors block size — 560x270x310 mm
- Measuring block weight — 3.0 kg
- Sensors block weight — 20 kg
- Measured speeds — 3 – 1250 m/sec.
- Accuracy of speed measuring — <1.5 %
- Interval between shots — not less then 1 sec
- Time of continues operation — 8 hours
- Full operation time — not less then 500 hours



Specialized Training

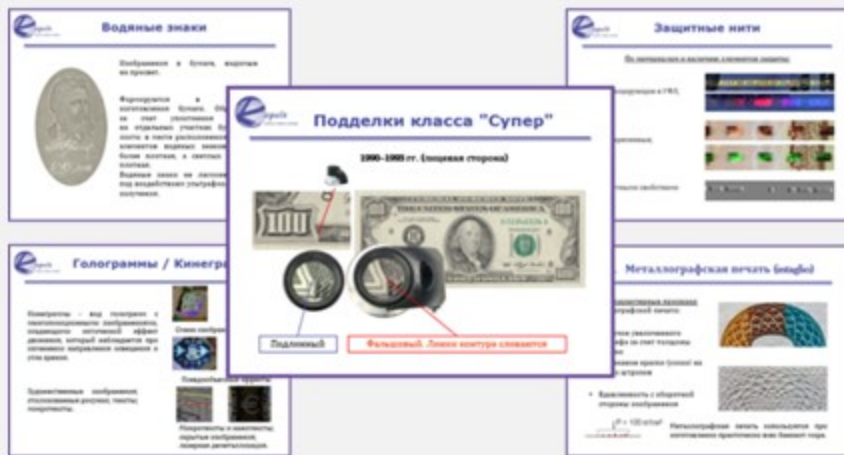




Specialized Training



Detection of forged security documents (intermediate and advanced levels)



Verification of banknote authenticity and fitness (intermediate and advanced levels)



Specialized Training

TARGET AUDIENCE

- law enforcement officers
- consular and migration officers
- employees of international carriers including airport and airline representatives
- bank tellers
- sales and service employees



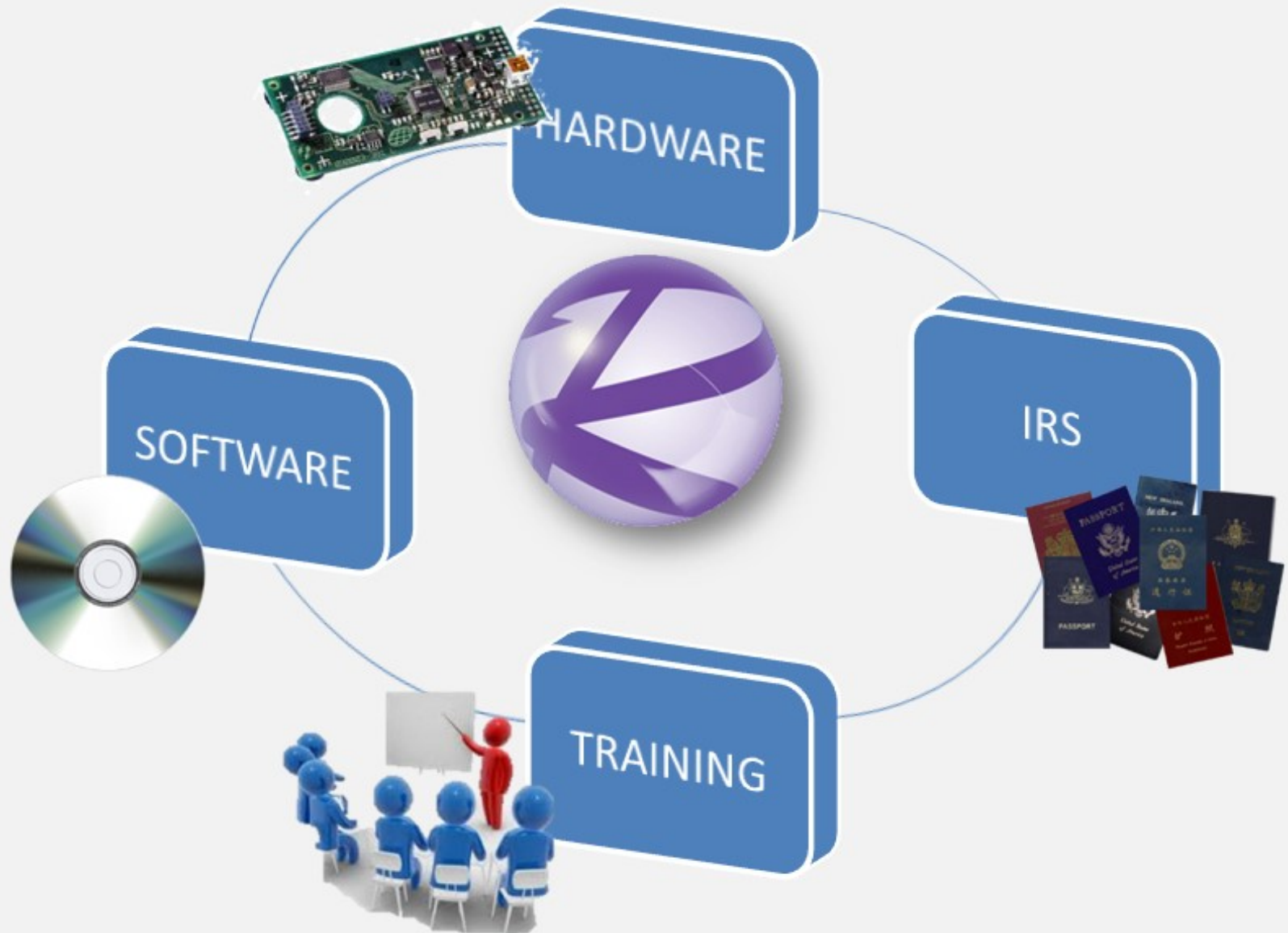
Specialized Training

OUR TEACHING STAFF

- have over 20 years of experience in detection of forged documents and banknotes
- have expert certificates issued by Ministry of Internal Affairs
- permanently take place in seminars and courses organized by International and regional organizations



Conclusion





Thank you for attention!

