



Mobile document 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, RFID chips.



A mobile compact size model with a shoulder strap. The body is made of hard plastic (IP54). Full data processing onboard with a built-in PC. The reader can be connected to an external PC or any other visualization device (tablet PC, smart phone, etc.)* via wireless network (Wi-Fi). Power supply: two rechargeable batteries (hot change is possible). No moving parts. Reliable, convenient and easy-to-use.

The device allows capturing images in white, infrared, ultraviolet and coaxial lights. It has a module for reading RFID chips. The device is supplied with software development kit (SDK) for easy integration into existing end-user systems.

* - supplied optionally

Functionality

- Capturing and processing images
 - supported document formats
 - ID-1
 - ID-2
 - ID-3
 - other documents with maximum size 88×128 mm
 - automatic detection of a document in a scanning zone
 - automatic scanning after document detection
 - elimination of glare from laminate and holograms in white and IR light
 - compensation of external light hitting during image capture in ultraviolet light (Smart UV)
 - automatic selection of UV illumination intensity according to the document type
 - search and cropping of a document image from a general image
- The MRZ detection and recognition
- Recognition and reading of 1D and 2D barcodes
- Automatic recognition of a document type
- Processing graphic fields
- OCR of the visual zone
- Reading RFID tags
- Analyzing and comparing text data
- Automatic authenticity verification of a document

Operation

- 1. The optical reader automatically detects a document in the scanning area of the device.
- 2. Document images are captured in different illumination modes. At the same time data is read from RFID tags and smart cards.
- 3. Regula Document Reader SDK processes data.
- 4. Results of the verification are ready for further use.

Application

- Border control services
- Aviation security services
- Law-enforcement agencies
- Immigration services
- Financial institutions
- Hotels
- · Car rental and leasing companies
- Cellular companies
- Business centers security service
- Event-agencies
- Medical institutions
- Tourist agencies



- Ticket offices
- Visa support agencies and consulates
- Insurance companies
- Casino security service

Delivery Set

Regula Document Reader SDK



Functionality		Model			
		7308.100	7308.110	7308.111	
Optical reader light sources	White	+	+	+	
	Infrared 870 nm	+	+	+	
	Ultraviolet 365 nm		+	+	
	Coaxial white			+	
Reader of radio frequency identification devices (RFID)		+	+	+	

Optical reader

- Scanning area, mm 88×128: full passport page
- Video sensor:
 - type CMOS
 - colour model RGB
 - $\circ\,$ colour depth, bit 24

Megapixels	3,1	1
Resolution, ppi	380	180
Frame size, pixels	2048×1536	1024×768

Reader of radio frequency identification devices (RFID)

- Supported standards ISO 14443: type A and B
- Data exchange rate, Kbaud 106, 212, 424, 848
- Reading an RFID tag regardless of its position in the document
- Anti-collision: reading an RFID tag according to the MRZ

Device technical specifications

- Built-in PC:
 - ∘ CPU Intel® Atom™ Z3735F quad core 1,33 GHz
 - DDR RAM, GB 2
- Protection rating IP54
- 1 external USB 2.0 port for connection of peripherals (for example, fingerprint scanner)
- Connection interface with result visualization device wireless network (Wi-Fi) with up to 150 Mbps speed
- Power supply two rechargeable batteries 4,4 Ah, 7,2 V
- Time of autonomous operation with two fully charged batteries, not less than, h 7,5
- Overall dimensions (length×width×height), mm 225×170×102
- Weight, not more than, kg 1,7



Document reader software development kit (SDK)

SDK (Full) consists of three modules:

- Basic supplied together with a device by default
- VizOCR reading textual fields from a document page
- AAC automatic authenticity control

VizOCR and AAC modules are optional and used to extend the functionality of Basic module.

Updates for SDK are provided regularly. Basic module has unlimited support. VizOCR and AAC are updated on subscription basis.

Functionality		Full SDK modules		
		Basic (supplied by default)	VizOCR	AAC
Doc	ument image capture and processing			
Document formats	 ID-1 (identity card) ID-2 (passport card, visa) ID-3 (passport) other document formats up to 88×128 mm 	+		
Scanning process	 document detection sensor automatic scanning after document detection elimination of glare from laminate and holograms for white and infrared illumination compensation of external light hitting during image capture in UV light (Smart UV) automatic intensity selection of UV illumination for a certain document type search and cropping of a document image from a received image 	+		
	Machine readable zone (MRZ)			
Supported MRZ formats	 in conformity with ICAO 9303: 44×2 30×3 36×2 in conformity with ISO IEC 18013 (IDL): 30×1 support of special MRZ data structure for documents of certain countries 	+		
Features	 search for the MRZ along the whole document image MRZ recognition in infrared and white light control of check digits and data structure in conformity with the requirements of ICAO 9303 and BSI TR-03105 Part 5.1 evaluation of MRZ quality specifications in conformity with ICAO 9303, ISO 7501, 1831, 1073-2 standards 	+		
Barcodes				
Supported formats	 1D: Codabar, Code39 (+extended), Code93, Code128, EAN-8, EAN-13, IATA 2 of 5 (Airline), Interleaved 2 of 5 (ITF), Matrix 2 of 5, STF (Industrial), UPC-A, UPC-E 	+		
	Advanced Security Solutions bv, Pater Wijnterlaan 17, 1412 GL Naarden, The Netherlands Tel.:+31 (0)35 694 79 76 fax:+31 (0)8 422 45 361, e-mail info@security-web.nl, www.security-web.nl			



SECURITY				
	 2D: PDF417 2D on request: Aztec Code, QR Code, Datamatrix 			
Authentication	barcode format check			+
Αι	itomatic document type recognition			
Order of document type recognition	 Country→Type→Series 		+	+
Features	 receiving a document template from the SDK database containing the following information: text and graphic fields position availability of barcodes and security features authenticity verification and its parameters RFID-chip availability a reference image from Information Reference Systems «Passport», «Autodocs», «Frontline Documents System» processing of the received document images in compliance with the sample, including document image rotation by the angle given in the sample 		+	+
	Graphic fields processing			
Types of graphic fields	 portrait of the document holder signature barcode fingerprint, etc. 	+		
Features	 cropping and displaying graphic fields as separate images in compliance with the sample of the corresponding document automatic searching of faces on the document image and cropping the document holder portrait if the document type is not recognized document image rotation according to the document holder portrait position 	+		
	OCR of the visual zone			
Recognition of character sets	 Central European and Eastern European Latin (1250) Cyrillic (1251) Western European Latin (1252) Greek (1253) Turkish (1254) Baltic (1257) other fonts of any size 		+	
Features	 dictionary support (name, surname, address, country, etc.) automatic text division into separate fields (e.g. dividing the address into postal code, country, state, etc.) recognition of dates with complex formats recognition of characters from different character sets in one line 		+	
RFID SDK				
Supported RFID-chip standards	 ISO/IEC 14443-2 (type A and B) ISO/IEC 14443-3 (MIFARE® Classic Protocol) ISO/IEC 14443-4 	+		
Data access modes	Direct BAC Advanced Security Solutions bv, Pater Wijnterlaan 17, 1412 GL Naarden, The Netherlands Tel.:+31 (0)35 694 79 76 fax:+31 (0)8 422 45 361, e-mail info@security-web.nl, www.security-web.nl	+		



SECURITY SO			
	• EAC • PACE • SAC		
Authentication	 active (AA) passive (PA) chip (CA v1, CA v2) terminal (TA v1, TA v2) 	+	
Supported applications	 ePassport (DG1-DG16) eID (DG1-DG21) eSign eDL (DG1-DG14) 	+	
Certificate management	 local storage receiving certificates online through the program interface Master List, CRL support 	+	
Features	 reading RFID chips with extended length support reading RFID chips in compliance with ICAO LDS 1.7, PKI 1.1 data formats certified by BSI TR-03105 Part 5.1, BSI TR-03105 Part 5.2 	+	
Α	nalysis and comparison of text data		
Document areas for cross-checking of the readout data	 MRZ VIZ RFID-chip barcode 	+	
Verification	 validity of any dates authenticity of names and surnames according to lists of wordstops zero numbers of sample documents 	+	
Adjustment of formats and measuring units to those used in the user OS	 date weight height, etc.	+	
Features	 complete or partial comparison of fields integration of data received from several document pages calculated field support (age, etc.) transliteration to Latin characters in compliance with ICAO 9303 standards for comparison with the MRZ 	+	
	Authenticity verification		
Operation available for any document	 checking luminescence (UV Dull Paper) of: the form the MRZ area the portrait area checking the MRZ print contrast in compliance with ICAO 9303 (IR B900 Ink) 		+
Operations available after document type recognition	 checking image patterns in white, IR and UV light checking luminescence of UV protection fibers detection of false luminescence checking photo embedding type: printing or attachment checking IR Visibility of: elements of the form text data 		+
	Advanced Security Solutions by Pater Wiinterlage 17, 1412 GL Neardon, The Notherlands		

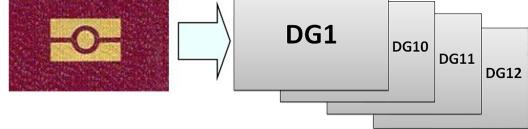
Advanced Security Solutions bv, Pater Wijnterlaan 17, 1412 GL Naarden, The Netherlands Tel.:+31 (0)35 694 79 76 fax:+31 (0)8 422 45 361, e-mail info@security-web.nl, www.security-web.nl



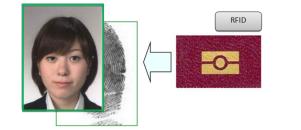
	 the photograph (main and additional) detection of holograms (OVD), OVI reading a luminescent text and comparing it with the data obtained from the MRZ and VIZ (OCR Security Text) visualization of IPI (Invisible Personal Information) checking retroreflective protection checking barcode format 		
Features	 checking operations are adjusted to documents with different degrees of wear and tear the choice of checking operations depends on security features available in a questioned document 		+
	Additional SDK functions		
Image formats	 .BMP .JPG .JP2 .PNG .TIF other image formats are possible on request 	+	
Interoperability	 comparison modules: fingerprint images from RFID chip and externalfingerprint scanner face images from document data page and/or RFID chip Information Reference Systems «<u>Passport</u>», «<u>Autodocs</u>», «<u>Frontline Documents System</u>» 	*	
OS compatibility	 Microsoft Windows XP (SP3), Windows 7 (x86, x64), Windows 8, Windows 10 	+	
Drivers	Microsoft certified	+	
Features	 simultaneous optical scanning and RFID chip reading firmware upgrade via USB interface (automatic upgrade after installing new SDK version) multilingual interface 	+	
	Software updates		
SDK	twice a year	*	
Document template database	monthly	*	

* - on request / individual agreement





Document data readout: textual data readout



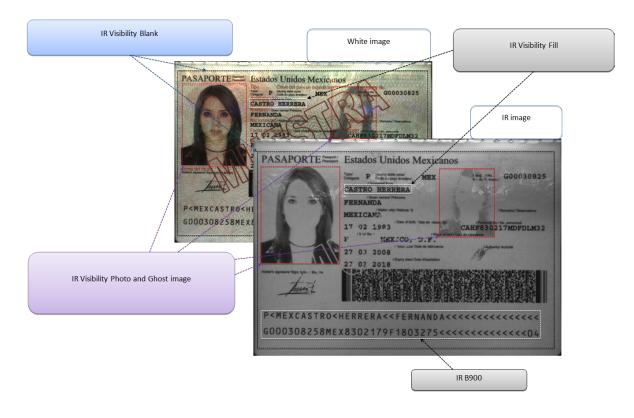


Document data readout: graphic data readout



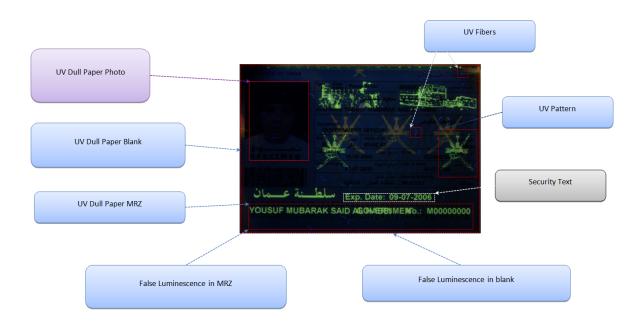


Performed security checks in white light

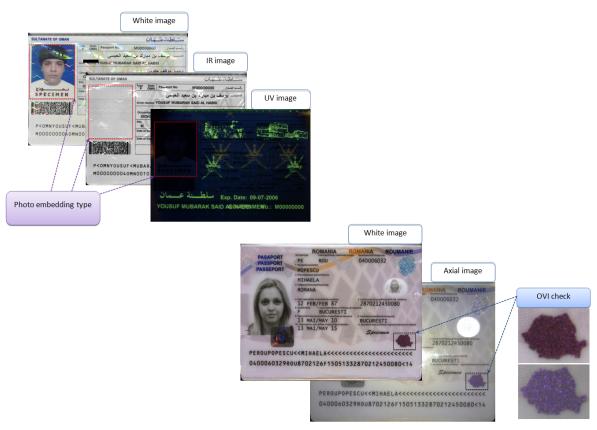


Performed security checks in infrared light



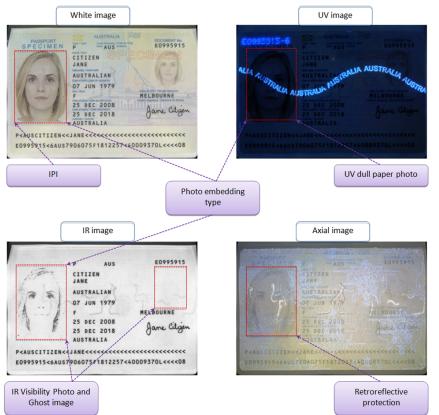


Performed security checks in ultraviolet light

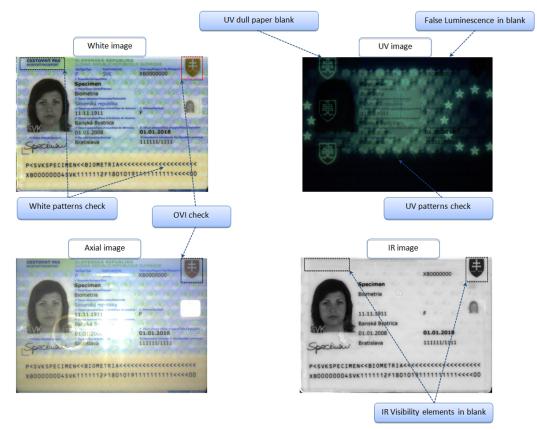


Performed security checks in different lights



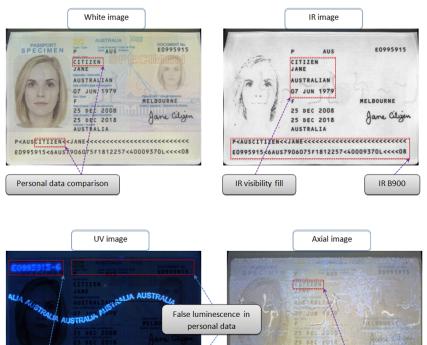


Checking photo embedding type: printing or attachment



Checking the blank of the document







Checking the personal data