

COMBO SMART

FULL-PAGE E-PASSPORT SCANNER
WITH OCR SOFTWARE LIBRARY & SDK



UNIVERSAL SCANNER FOR ANY BUSINESS

Let's imagine a passport reader with the most universal usage. A compact, multi-purpose scanner that is optimized not just for personal data capture but also for ID authentication, making it ideal both for commercial and governmental use. We have been thinking – and come up with Combo Smart.

Improving security at border control? Speeding up guest registration in a hotel? Scanning driver's licenses for car rental? Know Your Customer (KYC) policy in a bank? Combo Smart reads data no matter how the information is stored – extracts printed items like text / barcodes and digital data as well. You name it: contact chips, contactless chips and even magnetic stripes in specific models. As for document verification, Combo Smart detects if the document is a fake, copied or forged in any way – via automated checks within just a few seconds.

Browse through the different scanner configurations and find the model that best fits your checklist of features. Start using it right after delivery: it comes complete with its own demo software while offers 3rd party integrability too.



ACCESS
CONTROL



BORDER
CONTROL



QUALITY
ASSURANCE



LAW
ENFORCEMENT



BANKING



HOTEL
CHECK-IN



MOBILE
OPERATORS

MAIN BENEFITS

- A range of models for your specific business needs
- Data reading & authentication by the same device
- Detecting copied or forged documents
- Superb glare-free imaging
- Single-step reading of printed & chip data

TOWARD THE FUTURE IN SAFETY – SINCE 1991

SPECIFICATIONS

COMBO SMART

- full-page scanning up to ID-3 size • compact desktop format • dual antenna RFID system • high resolution 500 PPI imaging
- visible white, IR, UV illumination • OVD visualization & reflection removal

IMAGING

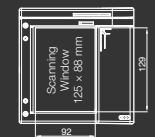
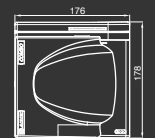
Active Scan Area	125 mm × 88 mm (4.92" × 3.46")
Illumination Sources	LED visible white, IR (B900), UVA (optional)*
Image Resolution	500 PPI
Provided Images	Visible, IR, UV (UVA)*, OVD image, glare-free image
Image Formats	BMP, JPG, JPG2000 and PNG
Image Color Depth	24 bits/pixels [RGB, 8 bits/pixels (IR image)]

READING CAPABILITY

Automatic Document Detection (ADD)	YES
Reflection Removal (RR)	YES
Adaptive Light Control	YES
ICAO MRZ Reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1 _{v2} , Part 2, Part 3 and Part 3 _{v2} for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ Reading	Available with ARH VIZ OCR software
Barcode Reading	1D: UPC-A, EAN8, EAN13, Code39, Code128 and ITF 2D: PDF 417, Data Matrix, QR Code, Aztec Code From paper-based documents and mobile devices AAMVA compliant PDF417 and IATA BCBP
Contactless IC (RFID) Option**	Reading and writing contactless ICs according to: ISO 14443 Type A & B, BSI TR-03105 All standardized rates up to 848 Kbps
Sam Module	Available as optional accessory for storing digital content for RFID reading
Magnetic Stripe Option****	Track 1, 2 and 3 stripes according to related ISO, ANSI and AAMVA standards
Contact Smart Card Option***	ISO 7816 Class A, AB and C, ISO 7816 & EMV2 2000 Level 1

PROGRAMMING & INTERFACES

Supported Operating Systems	Windows 10, 8.1, 8, 7, Vista (32/64 bit, WHQL certified) 32/64 bit Server 2008 R2 and Server 2003 Linux Ubuntu, Debian, OpenSUSE, CentOS
Software Development Kit (SDK)	Complete SDK including DLLs and demo programs
Programming Languages	C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java
General Interfaces	ARH native, Twain, PC/SC, BioAPI 2.0, AssureID™ and Micros Opera™
RFID functions (where applicable)**	ICAO Doc. 9303 LDS 1.7, ISO 18013 (Driver License) PKI 1.1, BAC, EAC, EAC2.0, PACE, PACE-CAM, AA, PA, TA, CA, BAP, EAP
Advanced Document Authentication (included in standard SDK)	Data consistency checks: MRZ, Bar codes, RFID** IR B900 and UV dull paper check, Passports' bearer photo vs. RFID DG2**
Additional Authentication Options (available as optional SDK)	VIZ and non-ICAO document reading Automated verification based on document specific security features in visible white, IR and UVA*
PC Connection	USB 2.0 high speed
Internal USB HUB	Integrated USB 2.0 HUB, 2 ports for external devices
Status indicators	Four programmable status LEDs (blue, green, yellow, red)
Internal Memory	Storing factory calibration
Firmware Upgrade	Automatic, via USB



MECHANICAL AND OTHER DATA

Size (width × depth × height) / Weight	178 mm × 176 mm × 146 mm (7.01" × 6.93" × 5.75") / 1.1 kg (2.43 lbs.)
Operating Temperature / Humidity	5 °C to 45 °C (45 °F to 113 °F) / 0-95 % (non-condensing)
Power supply	Universal external power supply, 100-240 V AC, 50/60 Hz
IP rate / Case	IP53 / Sturdy ABS-PC plastic
Security	Kensington® security slot
Window glass	4 mm (0.16") tempered glass
Compliances	FCC, CE, WEEE, RoHS
Maintenance	No moving parts, maintenance-free operation
Warranty	3-year warranty, upgradeable

* available in type 'L' models, ** available in type 'R' models, *** available in type 'S' models, **** available in type 'M' models

..... Technical specifications are subject to change without prior notice. This document does not constitute an offer.



ADDRESS: ALKOTAS UTCA 41, H-1123 BUDAPEST, HUNGARY, EU
PHONE: +36 1 201 9650 • FAX: +36 1 201 9651
WWW.ARH.HU • EMAIL: SENDINFO@ARH.HU