

# COMBO SMART

FULL-PAGE PASSPORT SCANNER  
WITH OCR SOFTWARE LIBRARY & SDK



## COMPACT, SINGLE-STEP, FULL-PAGE SCANNER SERIES WITH VERSATILE FUNCTIONS

The Combo Smart scanners are a series of compact, full-page, multi-purpose passport and ID scanners that provide automatic, accurate data extraction and document verification. They read multiple document types: passports, e-passports, ID cards, visas and driver's licenses. Printed data is extracted from the entire data page, from MRZ, VIZ and 1D & 2D bar codes. It also extracts digital data from contact-less (RFID) and contact smart chips and from Magstripes. OCR and RFID reading is done in one single step. Multiple illumination sources are available: visible white, IR and UV. Captured images are glare-free (with our Reflection Removal) while OVD signs are visualized in a separate image. By using the latest ID reading and verification technologies, combined with fast and easy operation and having no moving parts, the Combo Smart series is ideal for any application from border control & immigration, to security and commercial environments like banks, hotels or telecom companies. Its modular design allows great flexibility, as 16 different configurations can be made and OEM versions are also available.

### KEY FEATURES

- Compact, desktop "format", full-page document scanning, RFID function
- High resolution 500 PPI imaging with brilliant image quality. Visible white, IR, UV illumination, and OVD visualization
- Proprietary glare free imaging function for efficient OCR and bar code reading

### MAIN BENEFITS

- Reading and verifying ICAO and non-ICAO compliant ID documents accurately
- Processing complete passports (ICAO MRZ, General VIZ, RFID and more)
- Achieving single step OCR and RFID reading for higher security and speed



BORDER CONTROL



QUALITY ASSURANCE



LAW ENFORCEMENT



BANKING



HOTEL CHECK-IN



MOBILE OPERATORS

## SPECIFICATIONS

## COMBO SMART

### IMAGING

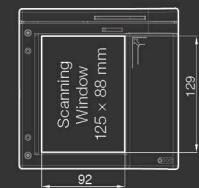
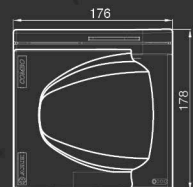
Active Scan Area	125 mm × 88 mm (4.92" × 3.46")
Illumination Sources	LED visible white, IR (B900), UVA (optional)
Image Resolution	500 PPI
Provided Images	Visible, IR, UV (UVA), OVD image, glare-free image
Image Formats	BMP, JPG, JPG2000 and PNG
Image Color Depth	24 bits/pixels [RGB, 8 bits/pixels (IR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

### READING CAPABILITY

Automatic Document Detection (ADD)	YES
Reflection Removal (RR)	YES
ICAO MRZ Reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1v2, Part 2, Part 3 and Part 3 <sub>v2</sub> for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ Reading	Available, based on user-defined fields
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, All standardized rates up to 848 Kbps
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

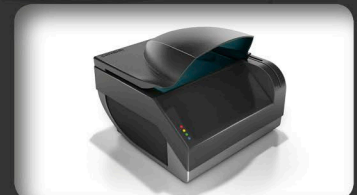
### PROGRAMMING & INTERFACES

Supported Operation Systems	Windows 7, Vista, XP (32/64 bit, WHQL certified) 32/64 bit Server 2008 R2 and Server 2003 Linux Debian 6.06, 7, Ubuntu 10.0.4, 12.0.4, CentOS 6.3 and Open Suse 12.1
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 (Drivers License) PK1 1.1, BAC, EAC, EAC2.0, PACE, AA, PA, TA, CA, BAP, EAP
Advanced Document Authentication Module	Data consistency checks: MRZ vs. VIZ vs. Bar codes vs. RFID IR B900 and UV dull paper check, Passports' bearer photo vs. RFID DG2
PC Connection	USB2.0 high speed
Internal USB HUB	Integrated USB2.0 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)	178 mm × 176 mm × 146 mm (7.01" × 6.93" × 5.75")
Weight	1.1 kg (2.43 lbs.)
Operating Temperature	5 °C - 45 °C (45 °F - 113 °F)
Operating Humidity	0-95 % (non-condensing)
Power supply	Universal external power supply, 100-240 V AC, 50/60 Hz
IP rate	IP53
Case	Sturdy ABS-PC plastic
Security	Kensington® security slot
Window glass	4 mm tempered glass
Compliances	FCC, CE, WEEE, RoHS
Maintenance	No moving parts, maintenance-free operation
Warranty	12 months warranty, upgradeable



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

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