



Combo Smart scanners are a family of compact, full-page, multi-purpose passport and ID readers that provide automatic, accurate data extraction and document verification. The documents' printed data is extracted from the entire page, from MRZ, VIZ, 1D and 2D bar codes. Combo Smart also extracts digital data from RFIDs, contact smart chips and from magnetic stripes. The available multiple illumination sources are visible white, IR and UV. The reader renders the captured images glare-free with a patented Reflection Removal and displays the OVD markings in a separate image. The device's modular design allows 32 different configurations, options to be powered by USB or regular current, 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 barcode reading

MAIN BENEFITS

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















SPECIFICATIONS COMBO SMART

IMAGING

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 1 $_{\varphi}$, Part 2, Part 3 and Part 3 $_{\varphi}$ 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

Contact Smart Card Option ISO 7816 Class A, AB and C, ISO 7816 & EMV2 2000 Level 1

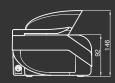
Magnetic Stripe Option Track 1, 2 and 3 stripes according to related ISO, ANSI and AAMVA standards

PROGRAMMING & INTERFACES

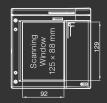
Supported Operation Systems	Windows 8.1, 8, 7, Vista (32/64 bit, WHQL certifed) 32/64 bit Server 2008 R2 and Server 2003 Linux Ubuntu, Debian, OpenSUSE, CentOS
Software Development Kit (SDK)	Complete SDK including DLLs and demo programs
Programming Languages	C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java
General Interfaces	ARH native, Twain, PC/SC, BioAPI 2.0, AssurelD™ 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, 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 (unavailable for USB-powered versions)
Status indicators	Four programmable status LEDs (blue, green, yellow, red)
Internal Memory	Storing factory calibration
Firmware Upgrade	Automatic, via USB
MEGUANIGAL AND OTHER DATA	

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 to 45 °C (45 °F to 113 °F)
Operating Humidity	0-95 % (non-condensing)
Power supply	Universal external power supply, 100-240 V AC, 50/60 Hz
Optional power supply	Dual USB connection
IP rate	IP53
Case	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	2-year warranty, upgradeable















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