

ATOM® Document Reader

Full-page Document Imager & eMRTD Reader

Fast, accurate, reliable multi-illumination full-page desktop & OEM MRZ, RFID and 1D/2D barcode reader

Description

The ATOM® Document Reader is a state-of-the-art, multi-illumination eMRTD reader. Representing a major leap forward in aesthetic design with dramatically improved performance, this device sets the ID document reader standard for years to come!

Its innovative design enables the capture of multiple high-resolution, uncompressed images (Visible, IR & UV). In comparison to existing scanners, the transaction time is significantly reduced delivering productivity and cost savings.



ATOM's design sets it apart from other readers and allows for both desktop use and simple, elegant into countertop and kiosk integration. Its innovative 'shark fin' document guides ensure that even the most widely travelled documents quickly slide onto the glass, easing down bent corners for a perfect read.

Like its predecessors, ATOM still delivers lightning fast MRZ decoding, whilst simultaneously reading RFID data from eDocuments, including those meeting the latest ICAO LDS standards. Additionally, high performance 1D/2D barcode reading ensures that the ATOM delivers a rich feature-set.

The ATOM can be supplied with its innovative Expansion Dock to provide either contact smart card reading, magnetic stripe reading or both. The elegant 'drop-in' design means that the unit can be supplied already mated, or retrofitted in the field in just a few seconds.



The ATOM Expansion Dock can be ordered with Contact Smart Card reading, Magnetic Stripe reading or both



Features

- Ultra-fast operation delivers time and cost savings
- Captures high-resolution images in multiple wavelengths – visible, IR and UV
- Reads MRZ from ICAO 9303 compliant documents, including Passports, e-Passports, ID cards and visas as well as ISO 18013 compliant driving licences
- ISO 14443 contactless RFID reader/writer supports ICAO LDS standards, including BAC, PA, AA, EAC and SAC
- Reads 1D/2D barcodes from smartphones, tablets & paper
- Operates without external power supply using USB 3.0
- Optional Expansion Dock provides contact smart card & MSR reading, 2 additional USB ports and 2 SAM modules.

Applications

- Banking & Insurance
- Mobile Network Operators
- Hotels, Airports, & Car Rental
- Gaming & Casinos
- Alcohol and Tobacco Sales
- Tax Refunds & Money Exchange
- Border control & Law Enforcement
- Document & Visa Issuance
- Self-service applications & Kiosks.



Access
Products

Access 
www.access-is.com

Access-IS Document Reader Software (ADRS)

Images

Biometric Data

Barcode Information

Document Information

Age: 28

Valid MRZ

DG1 vs MRZ

Validation

Data Groups

Authentication Status

Auth Certificate Status

☐ Show Timing

Specifications

MRZ reading

Standard OCR fonts: OCR-B

Machine readable passports (MRP):
2 lines of 44 characters to ICAO 9303

Machine readable visas (MRV):
2 lines of 44 characters, 2 lines of 36 characters to ICAO 9303

Travel documents: 2 lines of 36 characters, 3 lines of 30 characters

Imaging

Glass Platen: 4mm thick toughened, with anti-reflective and oleophobic coatings

Active scan area: 130mm x 94mm

Full-page: JPG, BMP, TIFF, PNG

Illumination sources: visible/white, IR, UV LED's

Resolution: 500 DPI

Barcode reading (option)

Linear (1D): EAN / UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128 *

2D: IATA resolution 792, PDF417, Aztec, DataMatrix and QR codes *

* Full list of supported barcodes on request

Contactless RFID reading (option)

Interoperability: ICAO DOC 9303, LDS1.7, ISO18013 (Driving Licence), PA, AA, BAC, EAC v1.11 (CA, TA), EAC v2.0x (PACE v2, ICAO SAC, CA v2, TA v2)

Operating frequency: 13.56 MHz

Supported documents: ISO 14443 type A & B auto-detecting; secure and high-speed data transmission; Mifare memory card support (Mifare ultralight, 1K, 4K cards)

App. interface: PC/SC compliant device

Contact smart card reading (option)

Number of ID-1 (smart card) slots: 1

Number of ID-000 (SAM) slots: 2

Compliance: ISO 7816, T=0, T=1

App. interface: PC/SC compliant device

Magnetic Stripe Reading (option)

Three-track magnetic cards complying with ISO7811/ 2-5 316e

Mechanical

Size (WxDxH): 143 x 171 x 65mm

With Expansion Dock: 165 x 171 x 79mm

Body: Black PC/ABS

Glass: BS EN60068-2-75 & IEC 62262:2002, rated to 6.375J impact

Weight: 750g excl cable/PSU

Security: Kensington® security slot

Power supply

+5 VDC via DC jack (Only when connected via USB 2.0 Interface)

Communications & host

Communication: USB 3.0 (Compatible USB 2.0)

Host Minimum: Windows 7 & above, 32/64 bit; Pentium Core-i3 2.1GHz & 4GB RAM**

Host Recommended: Win 7 & above, 32/64 bit; Pentium Core-i5 3.3GHz & 8GB RAM

Environmental

Temperature: Operating 0 OC to 50 OC
Storage: 0 OC to 60 OC

Humidity: 0 to 95% non-condensing

Approvals:

FCC Part 15C Class B ; CE EMC Class B, CE Low Voltage Directive; IEC60825-1, LED Safety: Class 1

BS EN 60950-1:2006+A2:2013

All trademarks acknowledged. Specifications subject to change without prior notice. This literature is for outline information only. Ver: 1.5 September 2016



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