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.

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-IS Document Reader Software (ADRS)

Specifications

**OCR reading capabilities**
- ICAO compliant travel documents in near infrared (IR) per ICAO 9303 specification Parts 1-4 (2- and 3-line MRZ)
- Near ICAO compliant travel documents (e.g. French ID)
- ISO-18013 driving licences (1-line MRZ)

**Imaging**
- Glass Platen: 4mm thick toughened, with anti-reflective and oleophobic coatings
- Active scan area: 130mm x 94mm
- Full-page: JPEG, BMP, TIFF, PNG
- Illumination sources: visible/white, near IR B900, 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
- 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

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