

HID ATOM ADR300

Full-page document imager and eMRTD reader



STATE-OF-THE-ART

The ATOM Document Reader (ADR300) is a state-of-the-art, multi-illumination electronic machine-readable travel document (eMRTD) reader. Designed from the outset to deliver high performance, ATOM blends an aesthetically pleasing design with maximum flexibility to make it the ideal choice for almost any application.

COST SAVINGS

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

ERGONOMICS / EASE OF USE

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

LATEST STANDARDS

ATOM delivers lightning fast MRZ decoding, with optional capability of 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.

EXTRA FEATURES

The ATOM can be supplied with an 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 connected or retrofitted in the field in just a few seconds.

APPLICATIONS

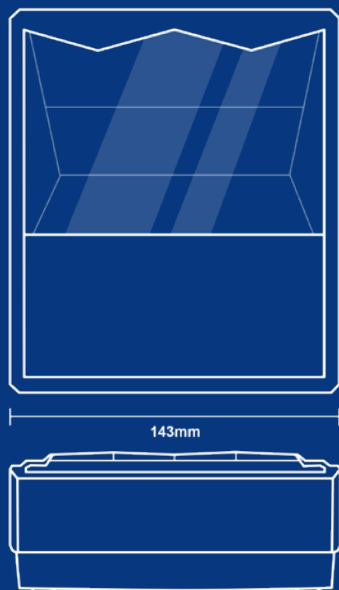
- Banking & Insurance
- Document & Visa Issuance
- Gaming & Casinos
- Tax Refunds & Money Exchange
- Self-service Applications & Kiosks
- Hotels, Airports & Car Rental
- Border Control & Law Enforcement
- Alcohol & Tobacco Sales



FEATURES:

- **Sophisticated Imaging** - Captures high-resolution images in visible and IR light (UV optional)
- **Simple Integration** - Operates without external power supply using USB 3.0
- **MRZ Reading** - Reads ICAO 9303 compliant documents, including ID cards, e-Passports and visas — plus ISO 18013 compliant driving licences
- **Flexible QR/Barcode Reading** - Reads 1D/2D barcodes from smartphones, tablets and paper
- **Optional Contactless Capability** - ISO 14443 contactless RFID reader/writer supports ICAO LDS standards, including BAC, PA, AA, EAC and SAC
- **Optional Expansion Dock** - Provides contact smart card & MSR reading, two additional USB ports and two SAM modules

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FEATURES

Connection Types

USB

Image Capture

- Visible
- Ultraviolet*
- Infrared

Technology

- NFC / RFID*
- QR/Barcode
- OCR
- Magnetic Strip*
- Contact SmartCard*

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| READING CAPABILITIES | |
|--|--|
| OCR (Optical Character Recognition) | ICAO compliant travel documents in near infrared (IR) per ICAO 9303 specification Parts 1-4 (2 & 3-line MRZ) Near ICAO compliant travel documents (e.g. French ID) ISO-18013 driving licences (1-line MRZ) |
| Imaging | Glass platen: 0.2 in (4mm) thick toughened, with anti-reflective and oleophobic coatings Active scan area: 5 in x 4 in (130mm x 94mm) Full-page: JPG, BMP, TIFF, PNG Illumination sources: visible/white, near IR B900, UV LED's Resolution: 500 DPI |
| Barcode Reading | 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 |
| Contactless RFID Reading (Optional) | 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 (Optional) | 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 (Optional) | Three-track magnetic cards complying with ISO7811/ 2-5 |
| ELECTRONIC | |
| Power Supply | +5 VDC via DC jack (Only when connected via USB 2.0 Interface) |
| 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 |
| PHYSICAL | |
| Dimensions | 6 x 7 x 3 in (143 x 171 x 65 mm) |
| With Expansion Dock | 6 x 7 x 3 in (165 x 171 x 79 mm) |
| USB 3.0 Cable Supplied | 4.9ft (1.5 m) |
| Body | Black PC/ABS |
| Glass | BS EN60068-2-75 & IEC 62262:2002, rated to 6.375J impact |
| Weight | 2 lbs. (750g) excl cable/PSU |
| Security | Kensington® security slot |
| THERMAL (AIR) | |
| Temperature | Operating 32°F to 122°F (0°C to 50°C) |
| Storage | 32°F to 140°F (0°C to 60°C) |
| Humidity | 0-95% non-condensing |
| APPROVALS | |
| FCC Part 15C Class B; CE EMC Class B, CE Low Voltage Directive; IEC 62471: 2006 - Exempt Class; BS EN 62368-1:2006+A2:2013 | |



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