

ID DOCUMENT READERS

## ATOM<sup>®</sup> Document Reader

Full-page Document Imager and eMRTD Reader

### State-Of-The-Art

The ATOM Document Reader (ADR300) is a state-of-the-art, multi-illumination 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.



### Productivity and Cost Savings

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.



### Ergonomics and Ease of Use

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.

### Latest Standards

ATOM continues to deliver 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.



### Expansion Dock for Added Features

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.

## Device Features

### Connection Types

USB

### Technology

NFC / RFID

Barcode\*

### Image Capture

Visible

ABC OCR

Ultraviolet\*

Magnetic Strip\*

Infrared

Contact SmartCard\*

### Reader Size

Optional\*

Full Page

### Features

#### Sophisticated Imaging

Captures high-resolution images in visible, IR & UV light

#### Simple Integration

Operates without external power supply using USB 3.0

#### Contactless Capability

ISO 14443 contactless RFID reader/writer supports ICAO LDS standards, including BAC, PA, AA, EAC and SAC

#### MRZ Reading

Reads ICAO 9303 compliant documents, incl. ID cards, e-Passports & visas plus ISO 18013 compliant driving licences

#### Flexible Barcode Reading

Reads 1D/2D barcodes from smartphones, tablets & paper

#### Optional Expansion Dock

Provides contact smart card & MSR reading, 2 additional USB ports and 2 SAM modules

## Applications

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

## OCR Reading Capabilities

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: 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, 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

## 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

## 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

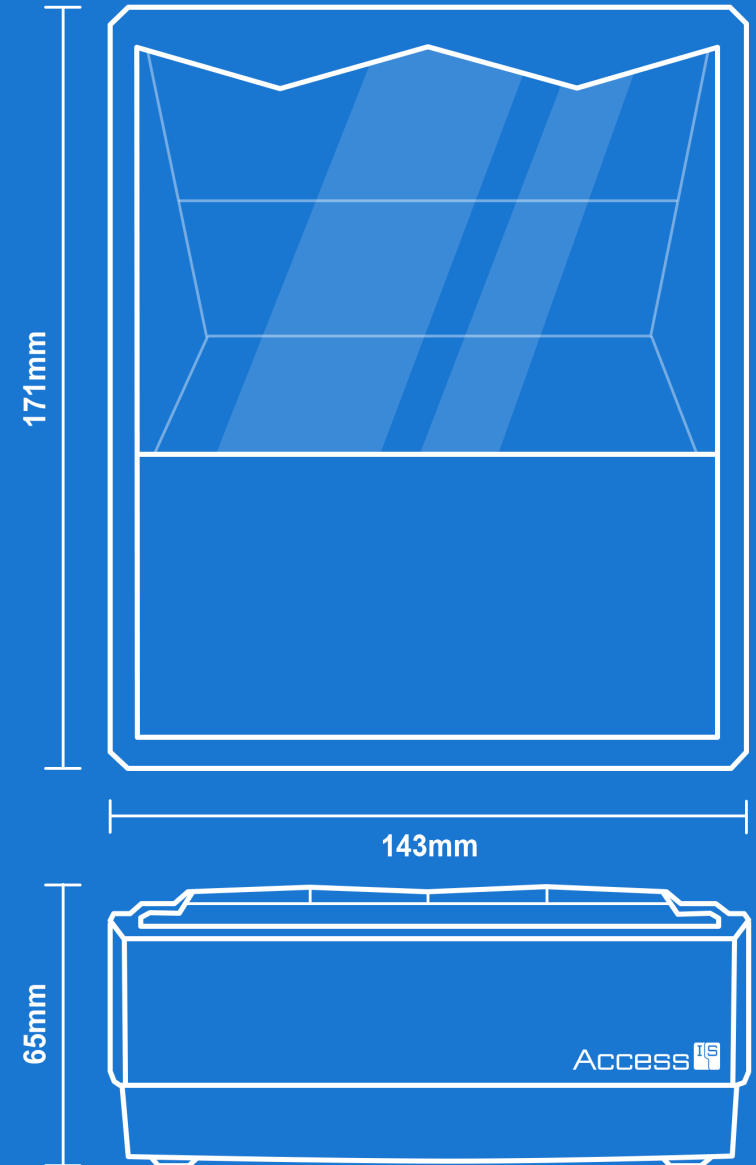
Temperature: Operating 0°C to 50°C

Storage: 0°C to 60°C

Humidity: 0 to 95% non-condensing

## Approvals:

FCC Part 15C Class B; CE EMC Class B, CE Low Voltage Directive; IEC 62471: 2006 - Exempt Class; BS EN 60950- 1:2006+A2:2013



## Get In Touch

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