

ATOM® Multi-Function OCR / MSR / BCR Reader

Fast, accurate, reliable multi-function reader for Passports, ID Documents, Credit Cards and Boarding passes

Description

Access-IS' innovative ATOM® Document Reader sets the ticketing and passport reading standard for years to come.

Access' new ATOM Document Reader is a state-of-the-art, multi-functional OCR/MSR/BCR reader with a low profile and aesthetically pleasing design.

ATOM allows for both desktop use and simple, OEM integration into countertops, self-service kiosks and self-bag drops. The device delivers fast (non-swipe) MRZ decoding of passports and ID cards and integrates an ergonomic MSR swipe reader for credit and FQTV cards.

ATOM can optionally include an intuitive and fast 1D/2D barcode reader that can read from paper, phones, tablets and smart watches. Barcode tickets are presented, face-down, over the scanning window. The large window, wide viewing angle, and depth-of-field creates a large barcode reading area. This makes positioning of the barcode easy

and results in fast detection and reading even before the document touches down.

Designed for future-proof operation, the unit can be supplied equipped with contactless/ NFC operation and, if permissible, can provide full-page passport/ID images via a simple upgrade.

When upgraded for passport imaging ATOM's innovative 'shark fin' document guides ensure that even the most widely travelled documents quickly slide onto the glass, with bent corners eased down for a perfect read every time.



Features

- Compact & low profile
- Simple integration into Kiosks and Countertops
- Reads OCR and MSR as standard
- Optional 1D/2D barcode reading from any media
- Optional RFID for contactless cards and smart devices
- Operates without external PSU when using USB 3.0.

Applications

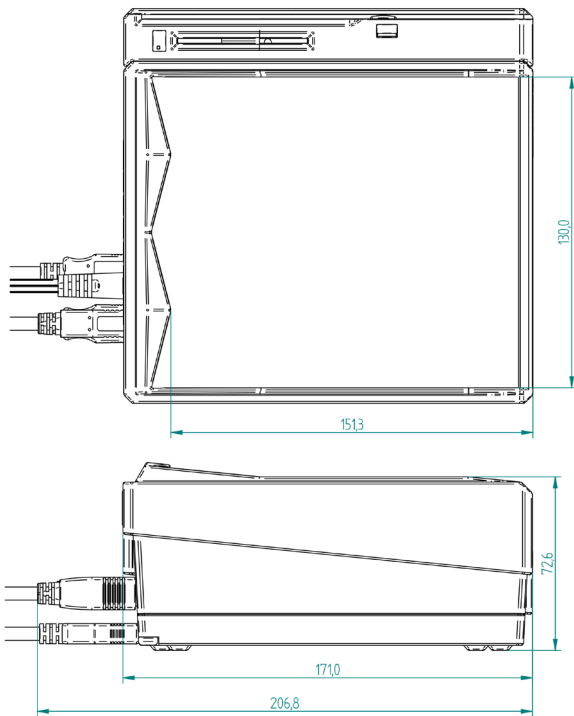
- Check-In
- Security Channels
- Self-Service Kiosks
- Self Bag Drop Solutions.



Access
Products

Access 
www.access-is.com

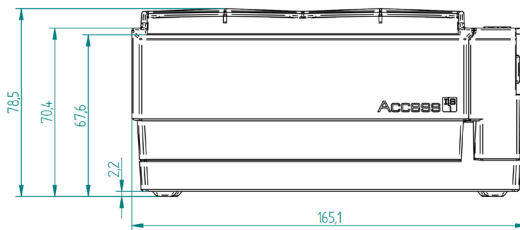
Dimensions



Ordering

When ordering both product numbers are required.

| | OCR Reading | MSR Reading | Barcode Reading | RFID Reading |
|----------------------|-------------|-------------|-----------------|--------------|
| ADR300 & ADR30X-M | ✓ | ✓ | | |
| ADR300-B & ADR30X-M | ✓ | ✓ | ✓ | |
| ADR300-R & ADR30X-M | ✓ | ✓ | | ✓ |
| ADR300-RB & ADR30X-M | ✓ | ✓ | ✓ | ✓ |



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
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

Magnetic Stripe Reading

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

Mechanical

Size (WxDxH): 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

* Full list of supported barcodes on request

** For more information about using minimum
specification please contact Access-IS

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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