



OSMOND

A THINKING PASSPORT READER

All-in-one ID verification: it reads, it authenticates – **and displays the results instantly.**



It's like putting together all the ID verification capabilities we have designed yet – and adding revolutionary new ones – in one single device. That is Osmond, the best passport reader we have created so far.

Osmond's game changer feature is how it redefines user-friendly operation: the verification results immediately appear on its display, giving you clear feedback. There's no need for manual typing anymore – nor for being a forgery expert. This new passport reader is built just for that, to help your business. Osmond maximizes ID authentication as well. It virtually takes apart any ID and analyzes its layers using various illuminations (infrared, UV and even oblique light) to reliably help even those users who do not have experience in fake ID checks. It's performed quicker than you'd ever imagine.

Some models in this product line are all-in-one configurations – these have integrated processing therefore do not even need any PC connection to provide the results, and on top of that, they work as network units – communicating via Ethernet, to transfer the results to any application. It can be your smartphone, a hotel reception or even a border control system.



BORDER CONTROL QUALITY ASSURANCE SELF-SERVICE BANKING



HOTEL CHECK-IN E-GATE FORENSIC DOCUMENT VERIFICATION

Main benefits

- Super fast: image scanning and data reading in less than 1 sec
- Easy to use
- Special illuminations for forensic checks, including oblique light
- High-res 700 ppi scanning
- All-in-one models: thinking devices with on-board processing
- Network option to send results immediately – sends results automatically
- Scratch resistant glass and IP-54 compliant design

Imaging

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| Active Scan Area | 129 mm × 89 mm |
| Illumination Sources | LED visible white, IR (B900), UVA |
| Image Resolution | 700 PPI |
| Sensor | 12 Mpixel |
| Provided Images | Visible, IR, UV (UVA), OVD image, glare-free image – oblique light |
| Image Formats | BMP, JPG, JPG2000 and PNG |
| Image Color Depth | 24 bits/pixels [RGB, 8 bits/pixels (IR image)] |
| Automatic Image Enhancement | YES – Hardware assisted |
| Automatic Document Detection (ADD) | YES |
| Reflection Removal (RR) | YES |
| Adaptive Light Control (ALC) | YES |

Reading Capability

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| ICAO MRZ Reading | ICAO compliant documents per ICAO 9303 specification Part 1, Part 1 _{v2} , Part 2, Part 3 and Part 3 _{v2} for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition |
| VIZ Reading | Available with Adaptive Recognition VIZ OCR software |
| Barcode Reading | 1D: UPC-A, EAN8, EAN13, Code39, Code128 and ITF 2D: PDF 417, Data Matrix, QR Code, Aztec Code AAMVA compliant PDF417 and IATA BCBP |
| Contactless IC (RFID) | *Optional Reading and writing contactless ICs according to: ISO 14443 Type A & B, BSI TR-03105 All standardized rates up to 848 Kbps |
| Contact Smart Card | *Optional Contact Smart Card: according to ISO 7816 and EMV 4.2/4.3, ETSI TS 102 221, supports Class A, AB and C smart cards T=0, T=1 protocol support |

Programming & Interfaces

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|---|--|
| Supported Operating Systems | In USB mode: Windows & Linux In network mode: operating system independent |
| Software Development Kit (SDK) | In USB mode: ARH native, Twain, PC/SC and BioAPI 2.0, Acuant AssureIDTM |
| Programming Languages | USB mode: C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java |
| RFID hardware | Adaptive Recognition RFID hardware (latest generation) |
| RFID functions | ICAO Doc. 9303 LDS 1.7, ISO 18013 (Driver License) PKI 1.1, BAC, EAC, EAC2.0, PACE, PACE-CAM, AA, PA, TA, CA, BAP, EAP, SAC |
| Advanced Document Authentication | Data consistency checks: MRZ, Bar codes, RFID |
| Authentication included in standard SDK | IR B900 and UV dull paper check, Passports' bearer photo vs. RFID DG2 |
| VIZ OCR data reading option | VIZ and non-ICAO document reading |
| VIZ OCR + Authentication software module option | Automated verification based on document specific security features in visible white, IR and UVA |
| PC Connection | USB 3.0 or Ethernet (based on reader type) |
| Status indicators & touch button | OLED graphical display |
| Firmware Upgrade | via USB (optionally via network) |

Mechanical data

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|--|---|
| Internal processor | Multi-core processor for on-board processing |
| Size (width × depth × height) / Weight | 182 mm × 200 mm × 153 mm / 2.25 kg |
| Power supply | Universal external power supply, 100-240 V AC, 50/60 Hz |
| Case | Sturdy ABS-PC plastic & Aluminium |
| Security | Kensington® security slot |
| Maintenance | Maintenance-free operation |
| Warranty | 3-year warranty |
| Operating temperature | 5 °C to 40 °C |
| Operating humidity | 0-90 % (non-condensing) |

Network Functions

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|---------------------|---|
| Supported protocols | Network interface for Osmond HTTP/HTTPS, WS/WSS (Web Socket) |
| General Interfaces | In USB mode: ARH native, Twain, PC/SC and BioAPI 2.0, Acuant AssureIDTM In network mode: HTTP/HTTPS for accessing the reader, WS, WSS, FTP, SFTP, FTPS, SMB, SMTP, WebDav, Local Database for result upload |

Technical specifications are subject to change without prior notice. This document does not constitute an offer.