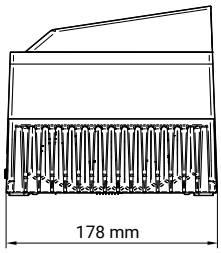
Osmond – Passport Reader

Imaging

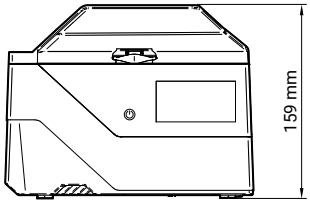
Active Scan Area	129 mm × 89 mm
Illumination Sources	LED visible white, Infra-red (B900), Ultra-violet (UVA)
Image Resolution	700 PPI
Sensor	12 Mpixel
Provided Images	Visible, IR, UV (UVA), OVD image, glare-free image – oblique (edge light)
Image Formats	BMP, JPG, JPG2000 and PNG
Image Color Depth	24 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

Custom configurations are available upon request such as units equipped with co-axial light, etc.



Reading Capability

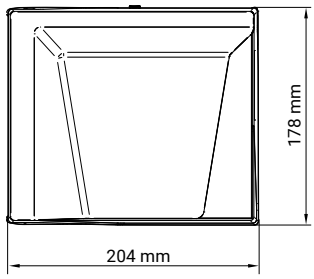
ICAO MRZ Reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1_{v2}, Part 2, Part 3 and Part 3_{v2} for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ Reading	Available with Adaptive Recognition VIZ OCR software
Barcode Reading	1D: UPC-A, EAN8, EAN13, Code39, Code128 and Interleaved 2 of 5 (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, B and C smart cards T=0, T=1 protocol support



Programming & Interfaces

Additional features such as Digital mobile ID recognition, customized barcode reading or other AI-based features can be added to meet specific requirements.

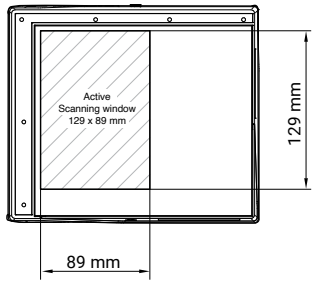
Supported Operating Systems	In USB mode: Windows & Linux In network mode: operating system independent
Software Development Kit (SDK)	USB mode: Complete SDK including DLLs and demo programs
Programming Languages	USB mode: C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java
General Interfaces	In USB mode: AR 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
RFID hardware	Adaptive Recognition RFID hardware (latest generation)
RFID functions	ICAO Doc. 9303 LDS 1.7, LDS 1.8, ISO 18013 (Driver License) PKI 1.1, BAC, EAC, EAC2.0, PACE, PACE-CAM, SAC, AA, PA, TA, CA, BAP, EAP
Advanced Document Authentication	Data consistency checks: MRZ, Barcodes, 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 3.1 Gen 1 or Ethernet (based on reader type)
Status indicators & touch button	OLED graphical display
Firmware Upgrade	via USB (optionally via network)



Mechanical data

Functions could be tailored to meet specific project requirement (e.g. NFC tag reading).

Internal processor	Multi-core processor for on-board processing
Size (width × depth × height) / Weight	178 mm x 204 mm x 159 mm / 2.25 kg
Power supply	Universal external power supply, 100-240 V AC, 50/60 Hz POE+ (available only in N version)
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)



For any specific requirements beyond our standard products, custom configurations are available.
Please contact our sales team to discuss your project needs and explore tailored solutions.
Technical specifications are subject to change without prior notice. This document does not constitute an offer.

3-year warranty
Made in EU

Release date: 05/09/2024