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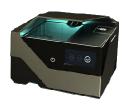
OSMOND full featured Passport scanner

Data reading and verification capabilities, technical values and compliances.

Imaging

Active Scan Area	129 mm × 89 mm
Illumination Sources	LED visible white, IR (B900), UVA
Image Resolution	700 PPI
Sensor	12M pixel
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-accelerated
Automatic Document Detection (ADD)	YES
Reflection Removal (RR)	YES
Adaptive Light Control (ALC)	YES

Programming & Interfaces

Supported Operating Systems	USB mode: Windows & Linux
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: 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
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
Authentication included in standard SDK	Authentication included in standard SDK - data consistency checks (MRZ, barcode, RFID), IR B900 ink and UV dull paper check.
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 (USB 3.1 Gen 1)
Status indicators	OLED graphical display
Firmware Upgrade	USB - optionally via network

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Reading Capability

ICAO MRZ Reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1 v1 Part 2, Part 3 and Part 3v3 for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ Reading Option	Available with Adaptive Recognition VIZ OCR software
Barcode Reading	1D: UPC-A, EAN8, EAN13, Code39, Code128, ITF, 2D: PDF 417, Data Matrix, QR Code, Aztec Code, Interlaced 2 of 5 (ITF), AAMVA compliant PDF417 and IATA BCBP
Contactless IC (RFID) and Contact Smart CardOption	Reading and writing contactless ICs according to: ISO 14443 Type A & B, BSI TR-03105All standardized rates up to 848 Kbps 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

Mechanical Data

Internal processor	Multi-core processor
Size (width × depth × height) / Weight	178mm × 203mm × 157mm / 2.25 kg
Power supply	Universal external power supply, 100-240 V AC, 50/60 Hz
Case	Sturdy ABS-PC plastic & Aluminum
Security	Kensington® security slot
Maintenance	Maintenance-free operation
Warranty	3-year warranty (can be extended)
Operating temperature	5 °C to 40 °C (45 °F to 113 °F) Operating humidity 0-90 % (non-condensing)

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