



Technical Datasheet

Data reading and verification capabilities, technical values and compliances –
you can find these all in the following specifications list.

Imaging

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 (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

<i>Supported Operating Systems</i>	<i>USB mode: Windows & Linux</i>
<i>Software Development Kit (SDK)</i>	<i>USB mode: Complete SDK including DLLs and demo programs</i>
<i>Programming Languages</i>	<i>USB mode: C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java</i>
<i>General Interfaces</i>	<i>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</i>
<i>RFID hardware</i>	<i>Adaptive Recognition RFID hardware (latest generation)</i>
<i>RFID functions</i>	<i>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</i>
<i>Authentication included in standard SDK</i>	<i>Authentication included in standard SDK - data consistency checks (MRZ, barcode, RFID), IR B900 ink and UV dull paper check.</i>
<i>VIZ OCR data reading option</i>	<i>VIZ and non-ICAO document reading</i>
<i>VIZ OCR + Authentication software module option</i>	<i>Automated verification based on document specific security features in visible white, IR and UVA</i>
<i>PC Connection</i>	<i>USB 3.0 (USB 3.1 Gen 1)</i>
<i>Status indicators</i>	<i>OLED graphical display</i>
<i>Firmware Upgrade</i>	<i>USB - optionally via network</i>



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 Card Option	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: 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 POE+ (available only in N and F versions)
Case	Sturdy ABS-PC plastic & Aluminium



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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