# 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

| | |
|---|---|
| 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<br>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)<br>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 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) |

## Adaptive Recognition

🇺🇸 Adaptive Recognition **America**
🇭🇺 Adaptive Recognition **Hungary**

🇩🇰 Adaptive Recognition **Nordic**
🇸🇬 Adaptive Recognition **Singapore**

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## Disclaimer