



# Technical specifications

## of PRMc e-passport reader series

### The PRMc series

- PRMc 123: One camera, Visible + IR illumination
- PRMc 133: One camera, Visible + IR + UV illumination
- PRMc 233: Two cameras, Visible + IR + UV illumination

### Available options for PRMc series

- RFID module (type R)
- 700PPI photo camera (type P)
- Smart card module (type S)
- UV LED (type L)
- Boro glass (type B)
- Extended document window 130x100mm (type E)
- Flip-top cover (type F)

### Technical Specifications

#### Optical Specifications

- Image resolution: 400 dpi
- Face image resolution: 700 dpi (available in type P devices)
- Image colour depth: 24 bits/pixels RGB, 8 bits/pixels (Infra image)

#### Hardware Units

- Internal memory: storing factory calibration
- Built-in DSP data processing unit

#### Mechanical Data

- Size with cover: 213x173x179 mm (8.39" x 6.81" x 7.08")
- Window size: 130x98 mm (5.12" x 3.86")
- Case: ABS plastic on metal base
- Window glass: 4 mm glass
- Operating temperature: +5°C to +45°C (41°F to 113°F)
- Operating humidity: 0-95% (non-condensing)
- Weight: approx. 2kg (4.41lb) depending on configuration
- No moving parts
- Kensington® security slot

#### Other Specifications

- Compliances: CE, CB, FCC, RoHS, IEC 62471
- Interface: USB 2.0
- Number of status LEDs: 3 programmable
- Power: external power supply included (100-240V AC, 50/60Hz)
- Possible to use via TCP/IP by USB-LAN converter

### RFID Module

- Single-step reading
- DUAL RFID antenna
- RFID chip is detected in any position within the passport
- Support all ISO 14443 A/B chip types
- Active/passive authentication, BAC, EAC
- RFID data is read with the highest possible speed supported by the chip
- Airspeed limit: max 848Kbps (if supported by the chip)

### Smart Card Module

- Support ISO 7816 & EMV2 2000 Level 1 standards

### Advanced Document Authentication Module (ADAM)

- MRZ checksum validation
- MRZ comparing to VIZ (ask for details)
- Printed MRZ comparing to MRZ stored in RFID chip
- FaceCompare algorithm: comparing the printed face photo with the photo stored in RFID chip -DG2-
- Expiry date check
- B900 ink check
- UV dull paper check (in case of devices with UV light)
- Automatic pattern matching under Normal, UV, IR light (optional, ask for details)

#### Authentication methods with Photo Camera (type P devices)

- Photo substitution check (manual)
- JURA IPI™, DIPI™ decoding (optional, ask for details)
- GSSC VIPhoto™ decoding (optional, ask for details)
- Background printing check (manual)
- Microprinting check (manual)

### Software Development Kit (SDK)

#### Supported OS

- Windows® 7, Vista, XP (WHQL signed for 32&64 bits), Windows® Server 2003 (32/64bit), Windows® Server 2008 R2 (32/64bit)
- Linux® (ask for details)

#### Programming languages

- C/ C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java

#### Processing time (depending on PC configuration)

- Image capture and MRZ Reading < 0.5sec

#### MRZ OCR reading

- ICAO 9303

#### VIZ OCR reading

- Zones defineable by user

#### 2D Barcode reading

- PDF 417, Data Matrix, QR Code, Aztec Code

#### 1D Barcode reading

- UPC-A, EAN8, EAN13, Code39, Code128, ITF

#### Image format

- BMP, JPG, JPG2000, PNG
- General interface: Twain, PCSC, BioAPI

#### Extended High Colour Fidelity (XCF)

- Automatic colour calibration
- Outstanding deltaE value (ref. Q-60R2 Kodak Target)

Technical specifications are subject to change without prior notice

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