

Technical specifications

of PRMc e-passport reader series

The PRMc series

- PRMc 123: One camera, Visible + IR illumination
- PRMc 223: Two cameras, Visible + IR illumination
- PRMc 233: Two cameras, Visible + IR + UV illumination

Available options for PRMc series

- RFID module (type R)
- Smart card module (type S)
- 700PPi photo camera (type P)
- Extended document window 130x100mm (type E)
- Built-in USB hub
- Flip-top cover

Technical Specifications

Optical Specifications

- Image sensor: 3 Megapixel
- Image resolution: 400 PPI
- Face image resolution: 700 PPI (available in type P devices)
- Image colour depth: 24 bits/pixels RGB, 8 bits/pixels (Infra image)

Hardware Units

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

Mechanical Data

- Size with cover : 213 x 173 x 179 mm (8,4" x 6,8" x 7,0")
- Window size : 130 x 98 mm (5,1" x 3,9")
- Case: ABS plastic on metal base
- Window glass: 4 mm tempered glass
- Operating temperature: +5°C to +45°C
- Operating humidity: 0-95% (non-condensing)
- Weight: 2,0-2,4 kg depending on the model
- No moving parts
- Kensington® security slot

Other Specifications

- Compliances: CE, FCC, RoHS, IEC 62471
- Interface: USB 2.0
- 3pcs free USB ports (available in type U devices)
- Number of status LEDs: 3 programmable
- Power: external power supply included (100-240V AC, 50/60Hz)

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

Smart Card Module

- Support ISO 7816 & EMV2 2000 Level 1 standards

Advanced Document Authentication Module (ADAM)

- MRZ checksum validation
- MRZ comparing to VIZ (optional)
- Printed MRZ comparing to MRZ stored in RFID chip
- Printed face photo comparing to photo stored in RFID chip -DG2- (optional)
- 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)

Authentication methods with Photo Camera (type P devices)

- Photo substitution check (manual)
- JURA IPI decoding (optional)
- GSSC VIPhoto™ decoding (optional)
- Background printing check (manual)
- Microprinting check (manual)

Software Development Kit (SDK)

Supported OS

- Windows® 7, Vista (32/64bit), XP, 2003, 2000
- Linux® (optional)

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

- EAN8, EAN13, Code39, Code128. Interleaved 2 of 5

Image format

- BMP, JPG, JPG2000, PNG

Extended High Colour Fidelity (XCF)

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

Technical specifications are subject to change without prior notice

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