

PRM233 ePassport reader

PRM 233 desktop reader is a compact all-in-one solution for capturing data from every ICAO 9303 compliant travel document, including the ePassports. The PRM 233 can quickly and accurately authenticate ePassports with RFID chips. The RFID reading is done in a single one-step process.

During its development our main goal was to fulfill all requirements that ever arised in document reading technology starting from complex security or immigration tasks to simple data acquiring.

PRM 233 is designed to ensure hands-free operation for the users. The data stored in the RFID chip can be read quickly from the ePassport, regardless the position of the chip in the booklet.

Technical Specifications

Illuminations

- Normal visible (White)
- Infra Red (B900)
- UV (UVA)

Optical Specifications

- Image sensor: 2048x1536
- Image resolution: 350 DPI
- Image colour depth: 24 bits/pixels RGB

Hardware Units

- Internal memory: to store the firmware settings and factory calibration file
- RFID modul

Mechanical Data

- Size with cover: 287x203x236mm (11.30" x 8.00" x 9.29")
- Window size: 130x98mm (5.12" x 3.86")
- Case: metal & ABS plastic
- Window glass: 4 mm tempered glass
- Operating temperature: +10°C to +40°C (41°F-104°F)
- Operating humidity: 0-95%
- Weight: 2.35 kg (5.18lb)
- No moving parts

Other Specifications

- Compliances: CE
- Interface: USB 2.0
- Number of status LEDs: 3 programable
- Power: external power supply (100-240VAC, 50/60Hz)

RFID Reading features

One-Step reading

- DUAL antenna
- RFID chip is detected regardless of chip location in document
- Ability to read printed MRZ lines and RFID in one step

Communication protocol between Card and Reader

- ISO 14443 A/B (T=CL)

Communication protocol Between PC and Reader

- ISO 7816 (T=1, T=0)

Active & passive authentication

- Included

BAC, EAC support

- Included

Software Development Kit (SDK)

Supported OS

- Windows® Vista, XP, 2003
- Linux®

Programming languages

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

Full processing time

- Full resolution of normal, IR and UV images plus OCR (MRZ) and RFID reading
 - ePassport with BAC: average 7 sec (with ~20 KB data)
 - ePassport without BAC: average 5 sec (with ~20 KB data)

MRZ OCR reading

- Included (ICAO 9303)

Enhanced Optical System (EOS)

- Included

VIZ OCR reading

- Optional, requires extra development

2D Barcode reading

- PDF 417
- Data Matrix (optional)
- QR code (optional)

1D Barcode reading

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

Image format

- BMP, JPG, JPG2000, PNG



Technical specifications are subject to change without prior notice

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