PRMc ePassport Reader

The compact document verifier with high-end OCR and RFID technology

PRMc desktop reader is a compact all-in-one solution for document reading and verifying.

PRMc authenticates quickly and accurately the electronic and printed data in all ICAO standard travel documents.

The built-in digital signal processor unit (DSP) significantly speeds up image-processing, thus efficiently reduces queuing time.

PRMc is designed to ensure hands-free operation. Regardless of the chip position electronic data can be read in a one-step process.

Specially customized (OEM) models are available, designed to serve specific needs. Our system integrator partners can easily integrate the reader and the related software technology (SDK) into the complete solution.

Main advantages

✓ Optimal solution for reading ePassports, visas and other travel documents

✓ Built-in DSP: outstanding reading performance and stability, parallel processing

✓ Fast image processing and RFID reading

✓ Exceptionally high rate of OCR reading

✓ High resolution images in IR, UV and normal light

✓ Security checking, authentication

✓ Can be linked to any database

✓ Easy operating (no special training is required for configuration & calibration)

✓ Hands-free operation

✓ Automatic document detection

✓ Compact design

✓ No moving parts, maintenance-free operation

Adaptive Recognition Hungary

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Technical Specifications*

Illuminations
- Visible (White)
- Infra Red (B900)
- UV (UVA)

Optical Specifications
- Image sensor: 3 Megapixel (2048 x 1536)
- Image resolution: 380 dpi
- Image colour depth: 24 bits/pixels RGB

Hardware Units
- Internal memory: storing the firmware settings and factory calibration
- Firmware upgrade: via USB
- 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 (5,12" x 3,86")
- Case: ABS Plastic on metal base
- Window glass: 4 mm tempered glass
- Operating temperature: +10°C to +40°C
- Humidity: 0-95%
- Weight: 2,35 Kg
- No moving parts
- Kensington® security slot

Other Specifications
- Compliances: CE, FCC, RoHS
- Interface: USB 2.0
- Number of status LEDs: 3 programmable
- Power: external power supply included (100-240V AC, 50/60Hz)

RFID Reading features

One-Step reading
- DUAL RFID antenna
- RFID chip is detected regardless of the chip location in the document
- Ability to read printed MRZ lines and RFID chip paralell.

Communication protocol between RFID chip and Reader
- ISO 14443 A/B

Communication protocol Between PC and Reader
- ISO 7816

Active Authentication
- Included

Passive Authentication
- Included

Baud rate
- Max. 848 Kbps

BAC support
- Included

EAC support
- Included

Software Development Kit (SDK)

Supported OS
- Windows 2000, 2003, XP, Vista
- Linux (optional)

Programing 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)

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

Automatic document verification
- JURA IPI® reading (optional)

Image format
- BMP, JPG, JPG2000, PNG

Extended High Colour Fidelity (XCF)
- Automatic colour calibration
- $\Delta E<10$ according to International Commission on Illumination (CIE)

** Technical specifications are subject to change without prior notice.*

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