



RTE8000 QA scanner for e-Passports

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The RTE8000 QA scanner with RFID provides quality assurance of e-Passports at point of issue.

The RTE8000 QA is a compact, full page document scanner designed for Quality Assurance of e-Passports and other Machine Readable Travel Documents (MRTDs) which comply to ICAO Document 9303. The integral RF reader allows reading of the bio-data page and embedded contactless chip as a single operation without repositioning the document. This simple, one step operation is the same, regardless of whether the chip is in the front or back of the e-Passport.

A comprehensive Software Development Kit (SDK) provides a full range of function calls to allow reading and quality testing of both the personalised biodata page and the information stored in the contactless chip. RT also provides higher level software which uses these function calls to provide a full QA software application. This may be tailored to individual countries requirements including translation into national languages.

The scanner offers a full range of options including linear and 2D barcode reading.

FEATURES

- > **Full page 400 dpi optical scanner for passports, visas and travel cards**
- > **Integrated RF reader, ISO 14443 Type A and B compatible**
- > **Positional and print quality checking of OCR codelines**
- > **Automatic document detection or host activation**
- > **Hashing and digital signature algorithms to ICAO standards**
- > **Supports Passive Authentication, Active Authentication, Basic Access Control (BAC)**
- > **Single USB 2.0 connection for optical and chip data**
- > **Small footprint**
- > **No moving parts, robust construction**

OPTIONS

- > **Linear and 2D barcode reading**
- > **Desk mounting kit**

TECHNICAL SPECIFICATIONS

Model Ref:

RTE8000 QA with RFID

Light Sources:

Visible, Infra-red (B900), Ultra-violet UVA.

Image resolution:

400 dpi

Document Window Size:

135 x 100 mm (5.3 x 3.9 inches)

Read Capabilities – (Optical Reader):

- Machine Readable Passports (MRP), 2 lines of 44 characters to ICAO Document 9303.
- Machine Readable Visas (MRV), 2 lines of 44 (full size), 2 lines of 36 (size II) to ICAO Document 9303.
- Machine Readable Travel Cards, 2 lines of 36 (size II), 3 lines of 30 (size I) to ICAO Document 9303.
- Optional one dimensional barcodes including IATA Industrial 2 of 5, Code 128, Code 39.
- Optional two dimensional barcode PDF417.

RF Reader (Contactless Chip):

13.56MHz RF ISO 14443-2 Type A and B compliant.

ISO 14443/3-4 protocol part A and B.

Reads DGI, DG2, EF.COM and EF.SOD_D in under 2 seconds.

106, 212, 424 and 848 kBits/s over-air data rates.

Read distance up to 2 cm.

Host Interface:

USB2.0, PCI

Auxilliary Device Interface:

USB2.0

Operator Indicators:

2 user LEDs including power / self test indication.

Power Requirements:

Universal input external power supply:

AC Input: 100 - 240 Vac, 50 - 60 Hz

DC Output: 12 Vdc, 3A max.

Dimensions:

Depth	200 mm	(7.9")
Width	191 mm	(7.5")
Height	158 mm	(6.2")
Weight	2.1 kg	(4.6 lbs)

Environmental:

Operating Temperature 5 °C - 35 °C (40 °F - 95 °F)

Operating Humidity 40% - 90% RH (non-condensing)

Host System Requirements:

Pentium P4 1.6 GHz class running Windows 2000 or XP, 256Mb RAM, 40Mb HD space.

Compliance:

FCC Part 15 Class B, CE, UL certified.

SDK:

Full SDK including dlls and demonstration programs. Support for Visual C++, Visual Basic, Borland Builder and Delphi.

Acknowledgements:

All trademarks acknowledged.

Specifications subject to change without notice. E & OE 12/05.