



## 1040 DPI High Resolution Full-page ePassport Reader Regula 8703



- 1040 dpi resolution Full-page scanning of ID-1 (identification card), ID-2 (visa, passport-card) and ID-3 (passport) formats under white, UV, and IR lights;
- Reading out textual information (OCR) of machine-readable zone (MRZ) and visual inspection zone (VIZ), reading out 1D and 2D barcodes;
- Retrieving data from contactless chips (RFID);
- Automatic verification of the document form authenticity and its data filling-in accuracy by analyzing textual, graphic and invisible (IPI) information in various light ranges;
- Microtext visibility;
- Powered by rechargeable batteries.



**Regula model 8703** is the **world's first true high resolution** full-page ePassport reader featuring 1040 DPI resolution and as well the **world's first** full-page passport reader with a **transmitted light table in the cover** for acquiring high resolution images of **watermarked pages** of travel & ID documents.

The images taken by **Regula model 8703** enable automated document verification solutions for the first time to automatically match micro text and printed security background features of the data page of passports and other identity documents and deliver a high level of detail only known from bulky forensic inspection systems used at back-office operations.

A typical use of **Regula model 8703** is as document verification scanner in a secondary inspection scenario. It is currently packaged in a suitcase with internal batteries and space for a communication unit for VSAT communications with additional support for a secured WLAN Hotspot, GPRS, VOIP, etc. communication channels, so that it can also be deployed in mobile checkpoints around the world.

Dedicated software feature enable an operator to either send complete images or only cropped areas of interests for manual inspection by a forensic expert to a dedicated workstation anywhere in the world, directly from the Inspection system.

**Regula model 8703** works with **Avalon's VeriDoc** solution to provide further automated checking of micro text and printed security background features.

## Specifications

– Full-page document reader

### Light sources

1. Visible (white) - LEDs
2. Infrared (870-880 +/- 10 nm) - LEDs
3. Ultraviolet (365 +/- 5 nm)– LEDs
4. Transmitted visible (white) – LEDs
5. Transmitted infrared (870-880 +/- 10 nm) - LEDs

– View field: 126x84 mm

– Resolution – 1040 dpi with a possibility to reduce resolution through camera settings to 400+ dpi

– SDK with full functionality at 400+ dpi

– Basic SDK functionality at 1040 dpi

– Document presence sensor

– Status indicator (one)

– RFID reader

– Pressing mechanism for MRZ area

– Data transfer interface: USB 2.0 Hi-speed

– Power supply: DC 12V, 2,5 A

### Carry-on Suitcase

- Dimension: 260x190x340 mm
- Scanner fitted in carry-on suitcase
- Space for Communication Unit for WLAN & VSAT connection
- Rechargeable Li-Ion batteries
- Internal Power Supply for 8-12 hours independent use
- Mount for Panasonic Toughbook
- One additional USB port for connecting external devices

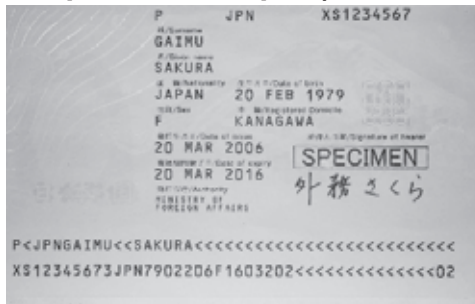
The first operational usage of Regula model 8703 is in a state-of-the-art secondary inspection scenario, where officers in the field can get high end document verification results and use the Inspection stations at the same time to involve the decision of a forensic expert from anywhere in the world, delivering the expert service where it is needed most via state of the art technology. It is a sensitive project, which we are not able to disclose any detail.

Regula model 8703 closes the gap between forensic examination stations and regular document inspection systems and enables authorities to provide expert advice & service to remote locations and therefore increasing security effectively while leveraging existing resources in remote locations for a high ROI.

### Regula 8703 Images (Datapage of Japanese Passport)



White



IR



UV



Transmitted

### Regula 8703 Images (fragments, zoom 1:1)



Watermark and security grid under transmitted light

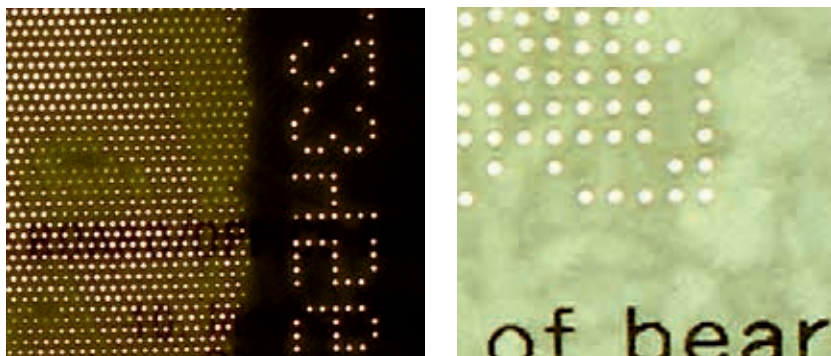


Security fiber and microtext luminescent under UV light

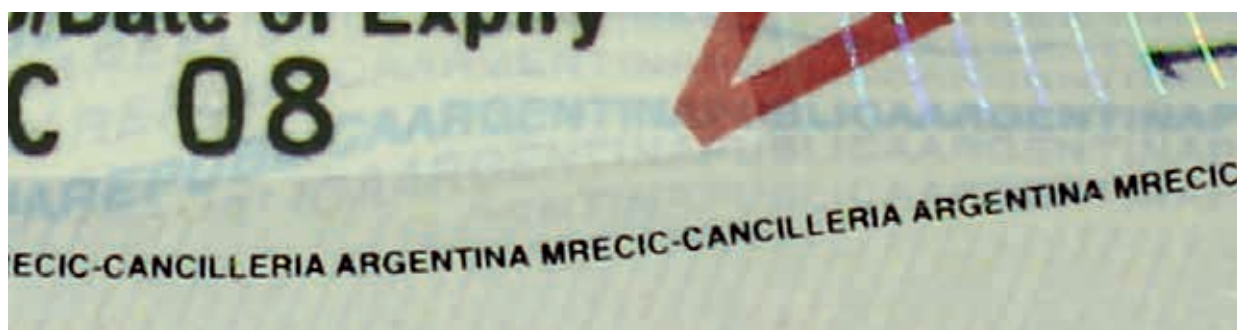


Microtext under white light

### Regula 8703 Images (fragments, zoom 1:1)



Microperforation in polycarbonate and paper under transmitted light



Microtext under white light

### Passport Image Details

The cropped image below shows the micro text between the MRZ line in the German passport. The micro text of the MRZ line can be clearly read and matched.



**Note:** MRZ lines of German passports are underlined by a micro text line, not readable by the human eye and any full page passport reader on the market.