

OCR640 Optical Document Scanner

A high-performance, small footprint identity document scanner with optional e-passport reading capability

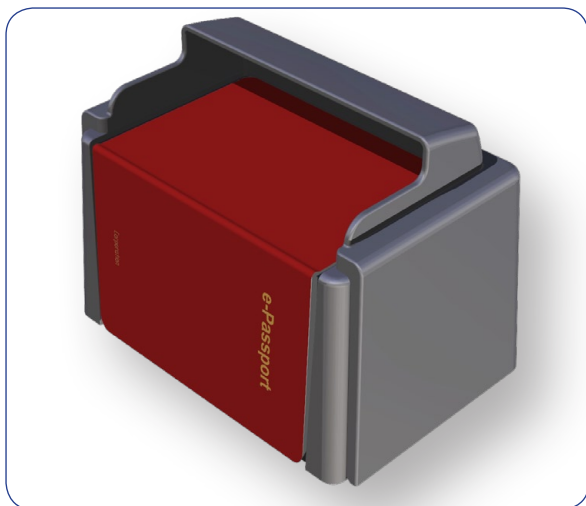
Description

The OCR640 scanner captures the full page of a passport as a colour JPEG image. It simultaneously decodes the machine readable zone (MRZ) from documents complying to ICAO 9303.

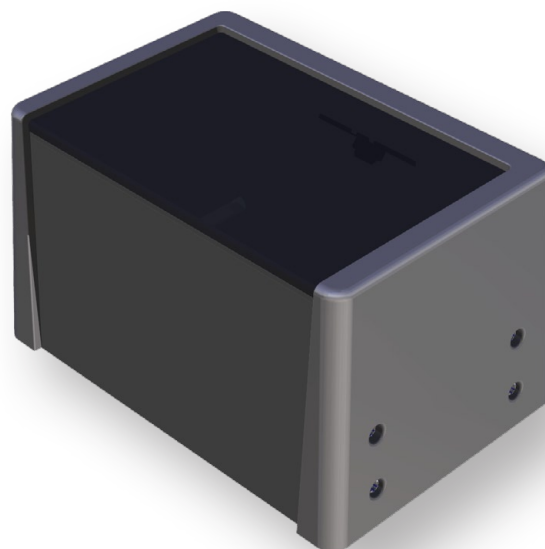
An RFID option enables the device to simultaneously decode the contents of an e-passport or contactless smart card chip, a feature that can be factory ordered or retrofitted in the field.

The OCR640 is targeted at applications where there is a requirement to read the MRZ data and also capture an image of the presented document. The OCR640 is able to compensate for out of position MRZ areas, and is simple to use for untrained or inexperienced users.

The OCR640 automatically detects when a document with machine readable data has been inserted and decodes the data to text. When the optional RFID reader is fitted, an e-passport is also automatically detected and will read the contents of the chip. The data fields and holder's image can be captured.



The OCR640, shown with optional shroud, scanning an e-passport and reading the chip



The OCR640 optical document scanner shown without shroud

Features

- Reads passports, ID cards and visas conforming to ICAO 9303
- e-Passports and e-ID card reading field-upgradeable option
- Full-page capture in colour, greyscale & UV
- Full-page capture and chip read in a single action
- Integrated with decoder
- Robust, compact and low profile design
- 4 mm toughened glass face
- Small footprint

Applications

- Airport passenger data capture
- Hotels and car-hire registration and identification
- Integration into self-service kiosks
- Automated e-gates
- Border control and immigration

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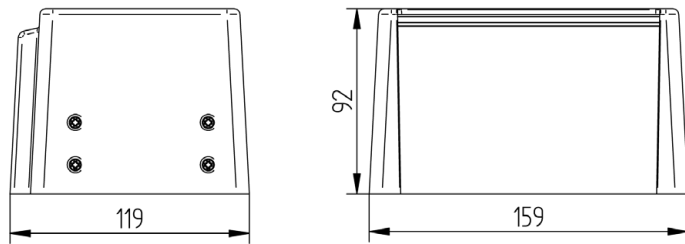
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Access 
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Dimensions



Dimensions shown in mm

Dimensions shown without shroud
(122L x 169W x 126H mm with shroud)
Additional 6 mm height required for rubber feet

Reading window
130 x 82 mm

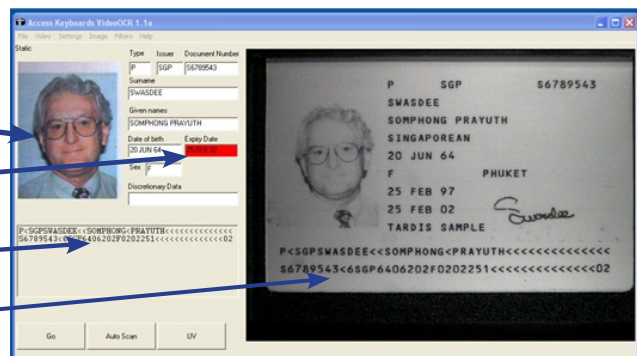
Software Features

Captures JPEG of holder's photograph

Extracts and validates data for accuracy and expiry

Decodes MRZ data

Scans using three light sources



OCR640 Optical Document Scanner and optional e-Passport Reader

Specifications

MRZ Reading

Light source: IR & white LEDs (UV optional)

Standard OCR fonts: OCR-B

Machine readable passports (MRP) :
2 lines of 44 characters to ICAO 9303

Machine readable visas (MRV) :
2 lines of 44 characters, 2 lines of 36 characters to ICAO 9303

Travel documents: 2 lines of 36 characters, 3 lines of 30 characters

Image Capture

Full-page: Output to JPEG file 400 DPI; approx. 260kB size

Resolution: 400 DPI

Contactless RF Reading (Option)

Interoperability: Passport booklets & ID cards conforming to the global standards for interoperability by the ICAO9303 2005

RF Reading (Option) Cont.

Operating frequency: 13.56 MHz

Supported documents: ISO 14443 type A & B including auto-detection; secure and high-speed data transmission; Mifare memory card support (Mifare ultralight, 1K, 4K cards)

Application interface: PC/SC compliant device

Approvals: CE/FCC/UL pending

Mechanical

External dimensions:

Without shroud: 119L x 159W x 92H mm

With shroud: 122L x 169W x 126H mm

Body: Dark grey ABS

Glass: 4mm Toughened Borosilicate; BS EN60068-2-75 & IEC 62262:2002, rated to 3.5J impact

Power Supply

+5V DC; without RFID powered via single USB interface; with RFID via two USB connections or external PSU

Communications & Host

Communication: USB 2.0 high speed

Host: OS Windows XP and Vista; Pentium 2GHz minimum

RFID driver: Microsoft CCID driver; industry standard PC/SC compatible

Environmental

Temperature: Operating 0 °C to 50 °C; storage: 0 °C to 60 °C

Humidity: 0 to 95% non-condensing

Approvals: FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1

Ver: Provisional March 2010

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