

OCR600 Range Optical MRZ and eMRTD reader

A high-performance OCR reader with e-passport reading capability

Description

The OCR600 captures the machine readable zone (MRZ) from documents complying to ICAO9303. An integrated RFID reader enables the device to simultaneously decode the contents of an e-passport or contactless smart card.

The OCR600 is targeted at applications where there is the requirement to read the MRZ from documents complying to the ICAO 9303 standards. APIS data, issuing authority and nationality can be extracted, together with expiry information. As airline and border control agencies will often only seek to capture this information, the OCR600 provides a robust and cost-effective alternative to established full-page, multi-illumination document scanners.

The OCR600 automatically detects when a document with machine readable data has been inserted and decodes the data to text. An e-passport is automatically detected and, provided the BAC (Basic Access Control) criteria is satisfied, the device will decode the contents of the chip. The data fields and holder's image can be captured.

OCR600 can also capture the image of the MRZ data for analysis by the user's application.



The OCR600e reading the MRZ and the passport chip in a single action



The OCR600 multi-format reading device

Features

- Reads passports, ID cards & visas
- Reads e-passports and e-ID cards
- Single action e-passport MRZ and chip reading
- Easy to maintain - hinged protective MRZ cover to allow easy cleaning
- Robust, compact and low profile design
- Optional 2 track MSR
- Field upgradeable RFID option

Applications

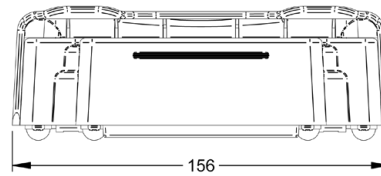
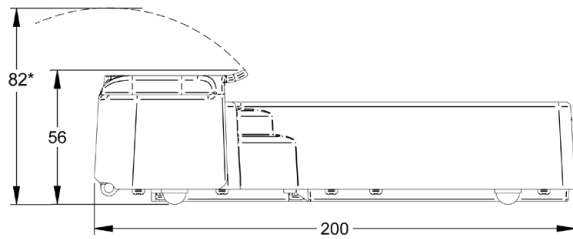
- Immigration auto e-gates
- Kiosks and self-service auto e-gates
- Airport passenger data capture
- Border control and immigration
- Hotels and hire car registration and identification
- Document issuers quality control

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Access IS
Interfacing Solutions

Dimensions



Dimensions shown
in mm
* Maximum height
with lid hinged open

Model Numbers

Model number	MRZ capture	RFID / chip capture	Embedded decoder
OCR600	Yes		
OCR601	Yes	Yes	
OCR600e	Yes		Yes
OCR601e	Yes	Yes	Yes



OCR600e shown with lid hinged opened ready for cleaning

OCR600e MRZ and e-Passport/e-ID Card Reader Specifications

MRZ reading

Light source: Infra-red LED

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

MRZ window size: 130 x 35 mm

Contactless RF reading

Interoperability: Passport booklets and ID cards conforming to the global standards for interoperability by the ICAO9303 2005 (International Civil Aviation Organisation)

Contactless RF reading (cont.)

Frequency range: 13.56 MHz

Reading technique: ISO 14443-2, 3, 4 including auto-detection. Secure and high-speed data transmission

Clock frequencies: 3.58 MHz and 4.92 MHz supported

Chip technology: ISO 14443-A/B

Approvals: CE/FCC/UL pending

Communication protocol

USB: 2.0 high speed

Mechanical

External dimensions:
217L x 155W x 56H mm

Weight: 950 g

Material: Rugged ABS construction in dark grey colour

Power supply

Voltage: +5V DC via USB interface

Power consumption: 2.5 watt

Environmental

Operating temperature: 0 °C to 50 °C

Storage temperature: 0 °C to 60 °C

Humidity: 0 to 95% non-condensing

Ver: Provisional March 2010

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