OCR640e OEM
Full-page Document Imager & eMRTD Reader

Fast, accurate, reliable multi-illumination full-page OEM MRZ, RFID and 1D/2D barcode reader

Description

The OCR640e OEM is a full-page multi-illumination ePassport reader. It captures ultraviolet and infrared images, as well the full page of a passport in colour.

In a simultaneous single action the reader also decodes the machine readable zone (MRZ) and processes RFID data – including the holder's image – from the chip.

The OCR640e automatically detects when a document with machine readable data has been presented. Additionally, it is able to compensate for out-of-position MRZ data, so that the advanced recognition engine reliably provides highly accurate and very fast document reading capability, allowing large volumes of documents and smart cards to be processed quickly and efficiently.

The unit can also be programmed to provide audible feedback to confirm a successful read, signal premature removal of a document and flag a variety of data details.

The OCR640e OEM has a compact design and is built in 51° and 87° configurations. It is robust and rugged, has a 4mm toughened glass face, and its quality-assured manufacture ensures years of heavy-duty, frontline use.

The OCR640e OEM 51° variant

Applications

- ABC Gates, eGates and Governmental Kiosks
- Banking and Financial Self-services (KYC & AML)
- Gaming and Betting Kiosks (Age Verification)
- Tax Refunds and Money Exchange Kiosks (Data Capture)
- Hotels, Airport and Car Rental Check-In Kiosks

Features

- Captures high-resolution images in multiple wavelengths – Visible, IR and UV
- Reads MRZ from ICAO 9303 compliant documents including Passports, e-Passports, ID cards and Visas as well as ISO 18013 compliant driving licences
- ISO 14443 contactless RFID reader/writer supports ICAO LDS standards including BAC, PA, AA, EAC and SAC
- Read 1D/2D barcodes from smartphones, tablets and paper-based documents.

The OCR640e reads a variety of identity documents

	Visible Light	UV Light	IR Light	RFID Reading	Barcode Reading
OCR640-N-OEM (51° or 87°)	✓	✓	✓		
OCR640-NB-OEM (51° or 87°)	✓	✓	✓		✓
OCR640-E-OEM (51° or 87°)	✓	✓	✓	✓	
OCR640-EB-OEM (51° or 87°)	✓	✓	✓	✓	✓

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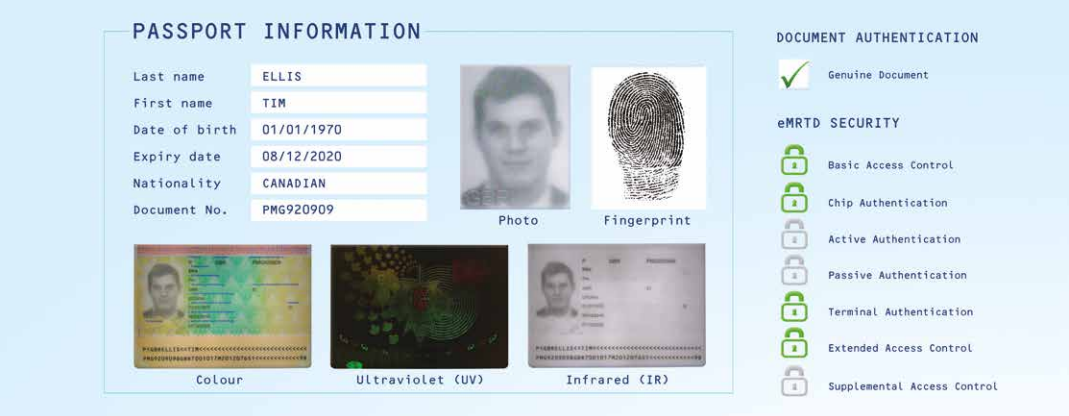
Example of device capabilities



OCR640e OEM 87° variant

Dimensions

The OCR640e OEM has two different physical profile versions:

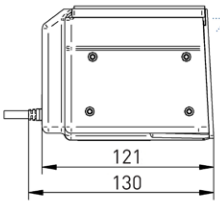
OCR640e OEM 87°

87° steep incline document interface. Footprint 121mm deep x 143mm wide

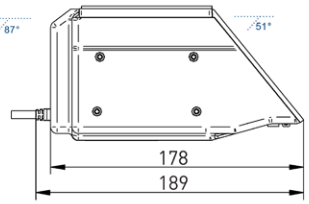
OCR640e OEM 51°

51° wedge-style document interface. Footprint 189mm deep x 143mm wide

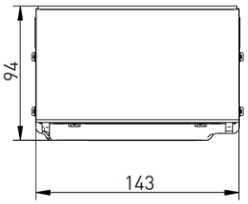
Reading window for both versions: 130mm x 82mm



OCR640e OEM 87°
87° incline downwards from top of unit. Footprint 121mm deep x 143mm wide



OCR640e OEM 51°
51° incline downwards from top of unit Footprint 189mm deep x 143mm wide



OCR640 eOEM 87° & 51°
Identical width profile 143mm wide

OCR640e OEM Full-page ID Document Reader Specifications

MRZ reading

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

Imaging

Glass Platen: 4mm Toughened Conturan

Active scan area: 132mm x 88mm

Full-page: JPG, BMP, TIFF, PNG

Illumination sources: visible/white, IR, UV LED's

Resolution: 400 DPI

Contactless RFID reading (variant)

Interoperability: ICAO DOC 9303, LDS1.7, ISO18013 (Driving Licence), PA, AA, BAC, EAC v1.11 (CA, TA), EAC v2.0x (PACE v2, ICAO SAC, CA v2, TA v2)

Operating frequency: 13.56 MHz

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

Application interface: PC/SC compliant device

Barcode reading (option)

Linear (1D): EAN / UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128 *

2D: IATA resolution 792, PDF417, Aztec, DataMatrix and QR codes *

* Full list of supported barcodes available upon request

Mechanical

Size:

143W x 130D x 94H mm (87°)

143W x 189D x 94H mm (51°)

Glass: BS EN60068-2-75 & IEC 62262:2002, rated to 6.375J impact

Weight: 850g

Power supply

+24 VDC via DC jack

Communications & host

Communication: USB 2.0 high speed

Host: Windows 7 & above, Win 32/64 bit; Pentium-4 3GHz and 2GB RAM minimum

Environmental

Temperature: Operating 0 °C to 50 °C Storage: 0 °C to 60 °C

Humidity: 0 to 95% non-condensing

Approvals:

FCC 47CFR Part 15 Subpart B Class A, EN 55022 Class B, EN 55024, FCC 47CFR Part 15 Subpart C, ETSI EN 302 291, EN 60950-1

Variant

OCR640n OEM: As OCR640e OEM but *without RFID functionality*

Option

Barcode Reading: 1D/2D

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