

# OCR640e Desktop Full-page Document Imager & eMRTD Reader

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

## Description

The OCR640e Desktop 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 features blue, amber, green and red LED lights to keep the user informed of status from ready to scan, through to processing and successful scan; or to indicate that there is an issue with the document. 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 has a compact, robust design and is designed for years of heavy-duty, frontline use.



## 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.

## Applications

- Border control, immigration and law enforcement
- Document and visa issuance
- Banking and mobile network operators (KYC & AML)
- Gaming and liquor stores (age verification)
- Tax refunds and money exchange (data capture)
- Hotel, airport and car rental check-In.

Photograph

OCR Viz

1D & 2D  
barcodes

MRZ



The OCR640e reads a variety of identity documents

	Visible Light	UV Light	IR Light	RFID Read	Barcode Read
OCR640-N-Desktop	✓	✓	✓		
OCR640-NB-Desktop	✓	✓	✓		✓
OCR640-E-Desktop	✓	✓	✓	✓	
OCR640-EB-Desktop	✓	✓	✓	✓	✓



Access  
Products


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## Examples of capabilities

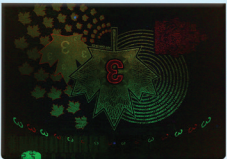
### PASSPORT INFORMATION


Last name	ELLIS
First name	TIM
Date of birth	01/01/1970
Expiry date	08/12/2020
Nationality	CANADIAN
Document No.	PMG920909

  
Photo


  
Fingerprint

  
Colour








  
Ultraviolet (UV)

  
Infrared (IR)

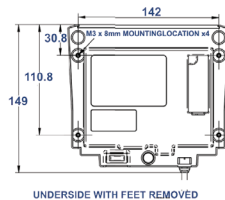
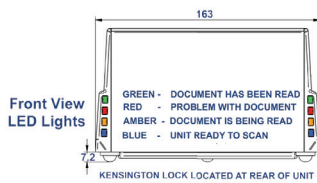
### DOCUMENT AUTHENTICATION

 Genuine Document

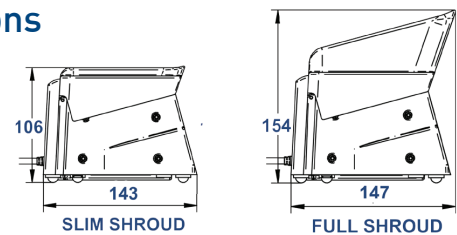
### eMRTD SECURITY

-  Basic Access Control
-  Chip Authentication
-  Active Authentication
-  Passive Authentication
-  Terminal Authentication
-  Extended Access Control
-  Supplemental Access Control

## Hardware dimensions



## Shroud options



## 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: 163W x 147D x 154H mm

Body: Dark grey ABS

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

Weight: 850g

Security: Kensington® security slot

### 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 OC to 50 OC

Storage: 0 OC to 60 OC

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 Desktop: As OCR640e but without RFID functionality

### Option

Barcode Reading: 1D/2D

Slim Shroud: Low profile, open-faced

All trademarks acknowledged. Specifications subject to change without prior notice. This literature is for outline information only.

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