OCR601-MK2 Series
Includes: MK2, MK2-N and MK2-SC

High-Performance Flatbed MRTD Reader with Contact/Contactless Capability

Description

The OCR601-MK2 is a machine readable zone (MRZ) data reader with RFID functionality to simultaneously decode the contents of an ePassport or contactless smart card.

The OCR601-MK2 automatically detects when a document with machine readable data has been inserted and its advanced recognition engine provides highly accurate and instant data capture and decoding.

By integrating the contactless RFID reader/writer, the device simultaneously and efficiently captures and processes data fields, including the holder’s image, from the chip. This combined functionality provides a robust and cost-effective alternative to full-page, multi-illumination ID scanners.

The compact, robust design enables easy integration into self-service kiosks and gates, or use as a desktop device with rugged manufacturing ensuring years of indoor and outdoor, frontline, public use.

For users wanting to read contact cards, the OCR601-MK2-SC adds two contact smart card readers, two secure access modules (SAMs) and an integrated USB hub featuring two powered USB ports delivering even greater flexibility.

Features

- Reads MRZ from ICAO 9303 compliant documents including Passports, e-Passports, ID cards and Visas as well as ISO 18013 compliant driving licences.
- Single action ePassport MRZ and chip reading
- High-speed recognition engine for instant detection/reading
- Low cost alternative to full-page, multi-illumination scanners
- Programmable audio ‘beep’ for user feedback.

Optional Features

- ISO 14443 contactless RFID reader/writer supports ICAO LDS standards including BAC, PA, AA, EAC and SAC.
- ISO 7816 contact reader/writer with two smartcards (ID-1) and two SAMs (ID-000) slots.
- Integrated USB hub featuring two powered ports for external peripherals.

Applications

- Border control and immigration
- Document issuance (passport, visa, etc.)
- Kiosks and self-service auto eGates
- Airport passenger data capture
- Hotels & hire car registration
- Identification verification.

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Example of device capabilities

**Specs: OCR601-MK2 & OCR601-MK2-N**

**MRZ/MRTD reading**
- **Supported Font:** OCR-B
- **Supported Standards:**
  - ICAO 9303 specification Parts 1-4
  - ISO 18013 Driving Licence
- **Supported Documents:**
  - 3 lines MRZ
    - ID1: eID, Resident Permit...
  - 2 lines MRZ
    - ID3: Passport, Visa...
  - 1 line MRZ
    - ID1: Driving Licence...

**Imaging**
- **Active viewing area:** 132mm x 30mm
- **Illumination source:** IR, 880nM LED
- **Resolution:** 235 DPI
- **Image capture:** JPG, BMP, TIFF, PNG

**Contact smart card reading**
- **Number of ID-1 (smart card) slots:** 2
- **Number of ID-000 (SAM) slots:** 2
- **Compliance:** ISO 7816, T=0, T=1
- **Application interface:** PC/SC compliant device

**Contactless RFID reading**
- **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

**Mechanical**
- **External dimensions:** (LxWxH) 200 x 156 x 57mm (MK2-SC: 66mm)
- **Weight:** 860g (MK2-SC: 900g)
- **Maximum document width:** 132mm

**Power supply**
- +5 VDC via DC jack
- **Cable:** Detachable host cable

**Communications & host**
- **Communication:** USB 2.0 high speed
- **Host:** Windows 7 and above, Win 32/64 bit; Pentium-4 3GHz and 2GB RAM min

**Environmental**
- **Temperature:** Operating 0 to 50°C; Storage: -20 to 60°C
- **Humidity:** 0 to 95% non-condensing
- **Approvals:** FCC Part 15C Class A CE EMC directive

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