

# MARKLAND

## ID-BOX 221

### Multi-function document reader



- Hotel check-in
- Airport passport control
- Self-service terminals
- Bank registration
- Car rental
- Airport duty-free shops
- Customs and border inspection

The Model 221 is the smallest e-passport reader on the market. This device employs internationally leading MRZ (Machine Readable Zone) technology, equipped with six integrated cameras, to quickly and accurately read the MRZ machine-readable codes on travel documents designed in accordance with the ICAO DOC 9303 standard. These documents include passports, Home Return Permits, Mainland Travel Permits for Taiwan Residents, and other travel documents. Additionally, it supports RFID electronic chip recognition for passport-like documents

- Snaps on any kiosk, machine, automat
- Reads ePassports and all identity documents
- Scans MRZ and reads RFID chip without movement
- One or two antennas
- Fast reading
- Easy attach
- Automatic document detection

**ID-BOX 221 Multi-function document reader**

**Parameter**

**Details**

| <b>MRZ Scanner</b>                 |   |
|------------------------------------|---|
| MRZ Lines                          | 1 line: IDL, CAN, ... 2 lines: ID2 cards, ePP 3 lines: eID  |
| Font Type                          | OCR B as per ICAO 9303  |
| <b>Contactless reader</b>          |   |
| Supported protocols                | ISO 14443 Part 1 to 4, type A/B – T=CL and Mifare All Mifare products: Ultralight, 1K, 4K, Plus, DESFire EV1, Smart MX,                                 |
| Speed                              | Baud rates up to 848 kbps   |
| Number of antennas                 | 1 or 2  |
| Communication                      | CCID compliant (Windows, MacOS, Linux)<br>Custom CCID library (Android)<br>PC/SC 2.01 compliant (Windows, MacOS, Linux)<br>PC/SC .net wrapper (Windows) |
| Firmware                           | Support for RF configuration<br>Path-through command to reach protocol lower layer<br>Field upgradable  |
| <b>Operating Conditions</b>        |   |
| Communication interfaces           | USB 2.0 full speed (12 Mbps)  |
| Temperature                        | In operation: 0°C to +50°C<br>Storage: -40°C to +80°C   |
| Resolution                         | 500 ppi   |
| Physical Dimensions (LWH)          | 139 x 72 x 22 mm  |
| Communication                      | CCID compliant (Windows, MacOS, Linux)<br>Custom CCID library (Android)<br>PC/SC 2.01 compliant (Windows, MacOS, Linux)<br>PC/SC .net wrapper (Windows) |
| Supported protocols (Contactless)  | ISO 14443 Part 1 to 4, type A/B – T=CL and Mifare<br>All Mifare products: Ultralight, 1K, 4K, Plus, DESFire EV1,<br>Smart MX,                           |
| The operating system is supported  | Windows, Linux, Android   |
| <b>Certifications / Compliance</b> |   |
| Systems/Standards                  | ICAO 9303 standard  |