

## DESKO PENTA Scanner®

### Full-Image Passport & ID Scanner Solution



Every industry – from border control & immigration environments, security & commercial service industry to passenger service and contract management – has its specific objectives and requirements. Very often a basic solution must be individualized by additional components or features. To fulfill these customized concepts, DESKO developed a modular system of DESKO PENTA fullpage scanners for ID data entry and verification. Module by module the PENTA Scanner® evolves into a purpose optimized solution. The large scanning area supports ICAO and non-ICAO format documents, while the optionally available 4,3" multicolor display turn the PENTA Scanner® in a full functioning self-

service terminal. An optional embedded PC with (W)LAN connectivity or battery power enable this leading technology for standalone operation. The single-step reading process: optical and RFID data reading without moving the document ensures user comfort. Moreover, the PENTA Scanner® is available with different mounting options. Space-saving wall mount, theft protected base mount and even a pole mount for a flexible on-site field installation can be combined with the device.



#### Your Advantages

- Full-page, passport and ID document reader with multiple light sources
- Automatic recognition of passports and ID cards according to ICAO 9303
- Upgradable with 4,3" multicolor display
- Embedded PC (optional) with (W)LAN
- Intelligent device, PC integration possible for standalone solutions
- Security glass on scan area

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for  
**LINUX**



“**RELIABLE  
EFFICIENT  
SECURE**”

#### TECHNICAL DATA

Vcc: 5V DC +/- 5%  
Icc: max. 2.5 A

#### Footprint:

L 219,9 mm (8.66 inches) ×  
W 150 mm (5.91 inches) ×  
H 144,7 mm (5.70 inches)

#### Scan Window:

L 94 mm (3.70 inches) ×  
W 131 mm (5.16 inches)

#### Light sources:

IR, visible light and UV-A  
(optional)

#### Image formats:

JPG, BMP, PNG

#### Resolution:

150 up to 500 dpi

#### Host interface:

USB

#### Status Indicator:

Audible and visible status  
indicator

#### Features

- High-Precision Optical Scan Engine: DESKO development for high speed imaging and barcode scanning
- ID and Passport Image Scanning: scans documents with different light sources (VIS, IR)
- Rugged Design: solid box, security glass on scan area
- OEM Solutions available: perfect for integration into gates or kiosks

#### Optional Features

- RFID & NFC Reading Module: integrated RFID module is a dual antenna design that is especially designed for ePassport and NFC reading
- China ID Reading Module: integrated RFID module specifically designed for reading China National ID Card
- Barcode Recognition Module: embedded barcode engine with 1D/2D barcode reader
- MSR Reading Module: integrated bidirectional magnetic stripe swipe reader (3-tracks)
- Chip Card Module: integrated chip card reader
- SAM Module: integrated secure access module
- Light Source: UV-A
- Standalone Device: battery pack (10 hours) or embedded PC incl. LAN/WLAN connection

#### SDK Features

- Anti-Glare: brilliant image quality without troubling glare dots on document scan
- Insensitivity to Ambient Light: enables scanning without the need of any hood or lid
- Document Type Detection: Document shape detection (ID1/ID2/ID3) plus crop and rotate
- Move Detection: ensures that only non-blurred scans are processed
- Live Scan Picture: streaming of thumbnails to show user position of document on scan window
- B900 Ink Check: detect if MRZ was printed using B900 ink
- ICAO MRZ Compliancy: check if MRZ is

conform to ICAO regulations

- Checksum Verification: see if MRZ is reasonable and valid
- UV Dullness Check: use integrated UV light (optional) source to check if data page is made of optical unresponsive material (UV security printings)
- Age Verification: find out age of passport holder
- Document Expiry Date: verify if document is still valid or if it has already been expired

#### User Feedback

- Light: integrated multicolor LED on the front.
- Sound: high and low volume control buzzer
- Display: full-graphic multicolor display (optional) for individual graphics with two additional multicolor LEDs next to display

#### Certifications

- CE, FCC, WEEE, RoHS, BSI

#### Interfaces

- Host Interface: USB

#### Documents

- Machine-readable zone of OCR documents according to ISO/IEC 7501-1 and ICAO 9303 (e.g. ID cards, passports, visas)
- RFID documents according to ISO 14443 (A/B), ISO 7816 (incl. US passport), ICAO 9303 (BAC, EAC, EAC2.0, PACE, AA, PA, TA, CA), ISO 18013 (BAP, EAP), PKI (BSI TR-03129)
- 1D/2D barcode documents printed on paper or presented on displays e.g. mobile phone
- Magnetic stripe documents according to ISO 7811/2-5
- Chip cards according to standard ISO 7816
- SAM cards according to standard ISO/IEC 7810:2003

