

DESKO PENTA Scanner® 4X

Full-Image Passport & ID Scan Solution



Whether airlines and airports, border control and immigration environments, public authorities, businesses and retailers or banks and insurance companies - every industry has its unique objectives and requirements. Very often a basic solution must be individualized by additional components or features. To fulfill these customized concepts, we at DESKO developed the DESKO PENTA Scanner® 4X, a flexible fullpage scanner platform solution for ID data entry and verification. The PENTA Scanner 4X can be extended by various features and reading options tailored to the specific needs of the customer.

The innovative PENTA Scanner 4X is by default equipped with high-class scan technology delivering excellent images with a resolution of up to 900 dpi, a value which even exceeds the official requirements

of most law enforcement agencies of 600 dpi. An included state-of-the-art image sensor ensures an improved image capturing and a better image definition. The super-fast USB 3.0 connection accelerates workflows by an increased data transfer rate. For a better usability, the PENTA 4X is available with a document hold clip, allowing for an easier document guidance and operation. Furthermore, the PENTA Scanner 4X is powered via USB so you can operate the device independently from an external power supply.

Of course, the PENTA Scanner 4X includes well-proven DESKO OCR technology for MRZ and VIZ reading, too. Additionally available features comprise a UV and coaxial light source as well as a chip card reader and a barcode reader to complete the extensive functionality of the PENTA Scanner 4X.



Your Advantages

- Full-page, passport and ID document reader with a resolution of up to 900 dpi under different light sources
- Included power sensors for enhanced image correction
- USB 3.0 connection for increased data transfer rate
- Document hold clip improves document guidance
- Coaxial light source to reveal hidden security features
- Security glass on scan area



“FOURTH DIMENSION OF PERFORMANCE”

TECHNICAL DATA

Footprint:

L 220 mm (8.66 inches) ×
W 143 mm (5.63 inches) ×
H 127 mm (5.00 inches)

Active Scan Area:

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

Light sources:

IR, visible light and UV-A (optional), coaxial light (optional)

Image formats:

JPG, BMP, PNG

Resolution:

Up to 900 dpi

Interface:

USB 3.0 host interface
USB powered
LAN (Rest API) (optional)

Status Indicator:

Audible and visible

Scan Features

- ID and passport image scanning under visible, IR and UV-A light as well as coaxial light (optional)
- Scan without full cover for all light sources possible for easier user handling
- Optimized for OCR data collection
- Document size detection (e.g. for ID1 cards additional scan for backside necessary)
- Passport or ID card portrait available as separate image
- Reflection removal scan technology prevents spots caused by laminate or holographic print
- Automatic scan trigger based on document detection
- Automatic crop and rotate including background elimination of scanned image
- 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
- Rugged Design: solid box, security glass on scan area
- OEM solution available: perfect for integration into gates or kiosks

Optional Features

- Barcode Recognition Module: embedded barcode engine with 1D/2D barcode reader
- 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
- Chip Card Module: integrated chip card reader for reading contact chip and smart cards
- SAM Module: integrated secure access module
- Light Sources: UV-A, coaxial light

Basic Authentication Features (incl. in SDK)

- B900 Ink Check: detect if MRZ was printed using B900 ink
- ICAO MRZ Compliancy: check if MRZ complies with

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 and Guidance

- Light: integrated & programmable multicolor LED
- Sound: programmable buzzer with adjustable volume and pitch
- Document clip for enhanced user guidance (optional)

Certifications

- CE, FCC, WEEE, RoHS, BSI
- Country-specific reports available upon request

Interfaces

- Host Interface: USB 3.0 super-speed
- USB powered
- LAN (Rest API) (optional)

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
- Chip cards according to standard ISO 7816
- SAM cards according to standard ISO/IEC 7810:2003

