

DESKO PENTA Scanner® 4X Desktop

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 Desktop, part of a flexible full-page scanner platform solution for ID data entry and verification. The PENTA Scanner 4X desktop device can be extended by various features and reading options tailored to the specific needs of the customer. The innovative PENTA Scanner 4X Desktop is by default equipped with high-class scan technology delivering excellent images with a resolution of up to 900 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 Scanner 4X Desktop is available with a document hold clip, allowing for an easier document guidance and operation. Depending on the hardware configuration, the PENTA Scanner 4X Desktop can even be powered via USB so you can operate the scanner independently from an external power supply.

Of course, the PENTA Scanner 4X Desktop includes well-proven DESKO OCR technology for MRZ and VIZ reading, too. Additionally available features comprise a barcode reader and an illumination package for in-depth document verification including a coaxial light source.



Your Advantages

- Full-page, passport and ID document reader with a resolution of up to 900 dpi under different light sources
- USB 3.0 connection for increased data transfer rate
- Document hold clip improves document guidance (optional)
- Extended illumination package for in-depth document inspection: Coaxial light source to reveal hidden security features (optional)
- Scratch-resistant Corning® Gorilla Glass® 3 on scan area



“FOURTH DIMENSION OF PERFORMANCE”

TECHNICAL DATA

Footprint*:

L 218 mm (8.58 inches) ×
W 143 mm (5.63 inches) ×
H 116 mm (4.56 inches)

Weight:

910 g

Operating Temperature:

0°C – 50°C

Active Scan Area:

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

Light sources:

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

Image formats:

JPG, BMP, PNG

Resolution:

Up to 900 dpi

Interface:

USB 3.0 host interface
USB powered**
LAN (Web API) (optional)

Status Indicator:

Audible and visible

* with rubber feet

** depending on hardware
configuration.

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
- Rugged Design: solid box, scratch-resistant Corning® Gorilla® Glass 3

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: coaxial light
- Long-lasting protection for the safety glass: DESKO Elephant Foil®

Basic Authentication Features (Software required)

- 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 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

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

Interfaces

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

Documents

- Machine-readable zone of MRTD 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, ICAO 9303 (BAC, EAC, 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 in ID-000 format according to 7810:2003

