

## DESKO PENTA Scanner® 4X Cube

*ID Document and Barcode Scanner for OEM Applications*



The DESKO PENTA Scanner 4X Cube is the latest generation of the well-established DESKO Cube line dedicated to OEM integration. The innovative PENTA Scanner 4X Cube includes state-of-the-art PENTA Scanner 4X technology in a proven housing design optimized for the integration in gates, kiosks and counters.

The device 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.

An optionally available barcode engine supports the efficient reading of 1D/2D barcodes. In addition, the PENTA Scanner 4X Cube is certified according to IP54 regulations, thus it is protected against water and dust.

Of course, the PENTA Scanner 4X Cube 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 an RFID module to complete the extensive functionality of the PENTA Scanner 4X Cube.



### *Your Advantages*

- *ID document and passport scanner with a resolution of up to 900 dpi*
- *Included power sensor for enhanced image correction*
- *USB powered – USB 3.0 connection for increased data transfer rate and simplified installation*
- *Barcode engine for efficient barcode reading (optional)*
- *Housing design optimized for integration*
- *Water and dust resistant according to IP54 standards*

**Easy  
integration  
into legacy OEM  
installations**



# “FOURTH DIMENSION OF PERFORMANCE”

## TECHNICAL DATA

### Footprint:

L 226,75 mm (8.93 inches)  
× W 143 mm (5.63 inches)  
× H 93 mm (3.66 inches)  
➔ without document stop & rubber feet

### Active Scan Area:

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

### Light sources:

Standard: IR, visible light  
Optional: UV-A, coaxial light

### Image formats:

JPG, BMP, PNG

### Resolution:

Up to 900 dpi

### Interface:

USB 3.0 host interface  
USB powered  
Optional: LAN (Rest API)

### Status Indicator:

Audible and visible

1. Except for China ID reader and barcode module – require external power supply

2. Power supply via LAN connection

## 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, tempered glass
- 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 & programmable multicolor LED
- Sound: programmable buzzer with adjustable volume and pitch

## Certifications

- CE, FCC, WEEE, RoHS, IP54 (not for LAN option)
- Country-specific reports available upon request

## Interfaces

- Host Interface: USB 3.0
- USB powered
- LAN via 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
- SAM cards according to standard ISO/IEC 7810:2003

## 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
- 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 is conform to ICAO regulations

