DESKO PENTA Scanner® 4X Cube

900dpi standard

THE FOURTH DIMENSION
OF PERFORMANCE – NOW
AVAILABLE AS OEM SOLUTION

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The DESKO PENTA Scanner® 4X, the 4th dimension of performance, is now available as an OEM solution designed for the installation in self-service environments. The PENTA Scanner 4X Cube continues the success story of the well-established DESKO OEM product line. It combines a proven housing design with excellent PENTA 4X technology of the latest generation.

Even better, even faster and even more efficient, with the PENTA Scanner 4X Cube you are best-prepared for all future requirements. Its high-class scan technology delivers brilliant images with a resolution up to 900 dpi. Along with multiple light sources for revealing hidden security features, it raises document authentication to the next security level. The state-of-the-art power sensor allows for an enhanced image correction and definition.

The super-fast USB 3.0 connection speeds up your workflows by increasing the data transfer rate to your application by ten times and simplifies the installation process since there is only one cable necessary. An optionally available barcode engine provides quick read results from 1D/2D barcodes. The PENTA Scanner 4X Cube is certified according to IP54 regulations thus it is protected against water and dust. Along with the tempered glass it therefore allows for a long life cycle in self-service environments in the airport and hospitality industry, retail and governement applications and many more.

Of course, the PENTA Scanner 4X Cube is by default equipped with proven DESKO OCR technology to reliably capture all data from the machine-readable (MRZ) and visual zone. Additional features such as coaxial light or a LAN interface (via Rest API) are available, so you can set up your PENTA Scanner 4X Cube according to your individual needs.

Four times better:

1. *Resolution of up to 900 dpi for excellent images*
2. *Included power sensors for enhanced image correction*
3. *USB powered – USB 3.0 connection for increased data transfer rate and simplified installation*
4. *Barcode engine for efficient barcode reading (optional)*

And there are even more benefits:
- *LAN interface via Rest API (optional)*
- *Water and dust resistant according to IP54 regulations*
- *Compatible to older PENTA Scanner Cube integrations*
- ➔ *all included in a housing design optimized for integration*

TECHNICAL DATA

Scan Window:
H 94,2 mm (3.71 inches) ×
W 131 mm (5.16 inches)

Resolution:
Scalable up to 900 dpi

Light sources:
Standard: Visible and IR
Optional: UV-A, coaxial light

Image formats:
JPG, BMP, PNG

Interface:
USB 3.0 host interface
USB powered[1]
Optional: LAN (Rest API)[2]

Drivers:
Windows, Linux

Status Indicator:
Audible and visible

Footprint:
L 226,75 mm (8.93 inches) ×
W 143 mm (5.63 inches) ×
H 98,15 mm (3.86 inches)

Certifications:
CE, FCC, CB report, WEEE, RoHS, IP54
(not available for LAN option)

Scan Features
- ID and passport image scanning under visible, IR and UV-A light (optional) as well as coaxial light (optional)
- 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

Supported Documents
- Scanning of all ID documents or passports including driver´s licenses and specific IDs (e.g. work permit ID, student ID)
- Supported formats: ID1, ID2 and ID3

OCR Reading
- OCR MRZ reading for all ICAO 9303 compliant ID1, ID2 and ID3 documents such as passports, national ID cards, resident permits or VISA via DESKO Scanner SDK
- OCR VIZ reading or OCR reading of non-ICAO compliant ID documents available via additional software, available upon request

User Feedback and Support
- Light: integrated & programmable multicolor LED
- Sound: programmable buzzer with adjustable volume and pitch

Additional Data Reading (optional)
- Barcode Recognition: 1D/2D barcode reading
- RFID Reading Module: dual antenna RFID for biometric ID cards, passports and NFC applications
- SAM Module: integrated secure access module
- China ID Reading Module: integrated RFID module for China National ID Card reading

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

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FOUR TIMES BETTER THAN EVER

1 **900 dpi resolution**
STRONGER ZOOM FACTOR

2 **Image power sensor**
BETTER IMAGE DEFINITION

3 **USB powered**
FASTER WORKFLOW WITH USB 3.0
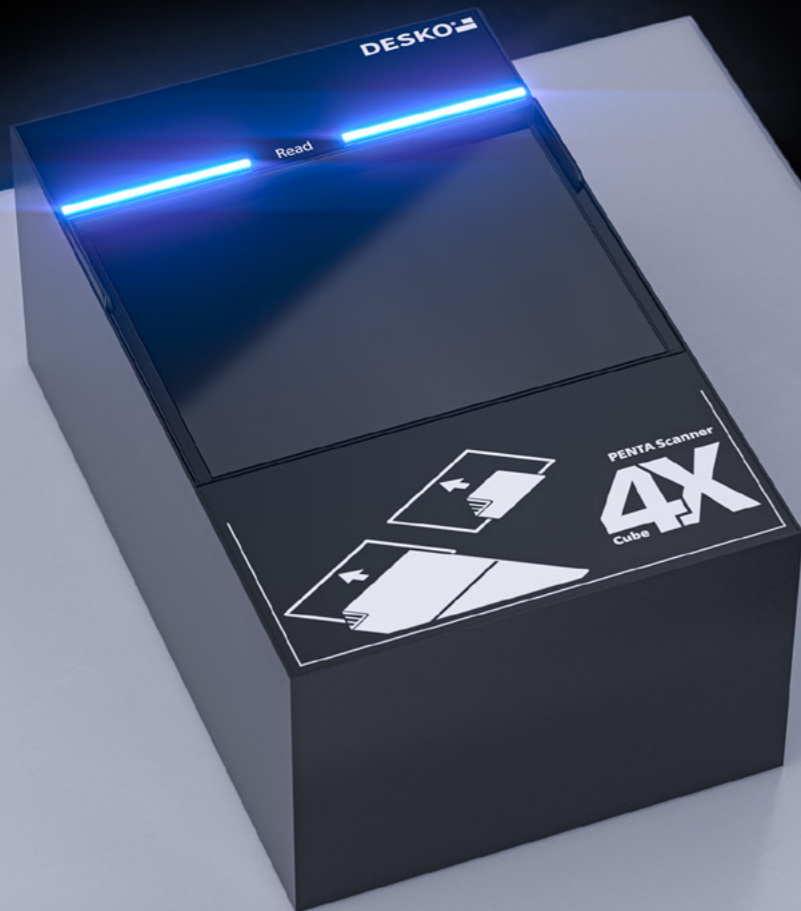
4 **Barcode engine**
EFFICIENT BARCODE READING

High image quality and security feature detection ...

1 good

2 better

3 best

PENTA Scanner 4x

The OEM version PENTA Scanner 4X Cube offers the full PENTA Scanner 4X functionality in a well-established housing design allowing for the flexible and convenient integration in e-gates, kiosks, counters and other self-service solutions.

Equipped with the latest technology, the PENTA Scanner 4X Cube achieves reliable read results from ID cards, passports, driver´s licenses and other identity documents as well as barcodes and contactless chip cards. As a full member of the PENTA family, the PENTA Scanner 4X Cube can be extended by various functions and reading options according to the customer´s specific needs which makes it a multifunctional and extremely flexible OEM product solution.

Cube housing construction successfully installed around the globe

As an experienced OEM partner, DESKO has realized numerous projects with kiosk and gate manufacturers worldwide. We know the challenges of complex installation scenarios and solve the problems always in close cooperation with our partners and customers.

The PENTA Scanner 4X Cube continues the success story of DESKO´s well-proven OEM products. Well established in industries which rely on self-service applications such as travel, hospitality or gaming, the PENTA Scanner Cube has constantly been further developed now being DESKO´s most successfull OEM product worldwide installed in numerous kiosks, gates and counters.

From the outside, the device impressses with its established housing design perfectly suitable for the quick and easy integration in narrow self-service applications. From the inside, the PENTA Scanner 4X Cube stands out with the latest 4X technology, four times better with regard to performance, speed and efficiency. Best of all, the housing has not changed in size or shape, so the new PENTA Scanner 4X Cube can be easily integrated into legacy installations without having to change the kiosk, gate or counter.

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ID document scanner for OEM applications

DESKO PENTA Scanner 4X Cube

Setting Standards in OEM Integration

Self-service applications are more and more common in various industries – airlines and airports, hotels, gambling halls and many more provide their services via self-service. Integrating a device in a narrow counter or kiosk is a challenging task though.
With the PENTA Scanner 4X Cube and our experience as an OEM partner we accept this challenge and create a most ergonomic integration set-up to meet the requirements of gate and kiosk manufacturers. The PENTA Scanner 4X Cube stands out by a proven housing design that handles all size restrictions and integration difficulties. Combined with our OEM know-how we ensure the smooth realization of your integration project.

Improve your workflow with the DESKO PENTA Scanner® 4X Cube

Travel and Freight:
Let the passengers self check-in with the PENTA Scanner 4X Cube. Quick and easy handling and flexible integration in self-service environments.

Access and Visitor Control:
Let your guests check-in at a self-service station. The PENTA Scanner 4X Cube is your solution for a flexible access control and guest registration.

Hospitality:
Integrate the PENTA Scanner 4X Cube in your self-service ordering or check-in kiosk. Reduce waiting times and streamline your guest service.

Gambling:
Let the players self register directly at the slot machine. Our PENTA Scanner 4X Cube is ideal for the integration in narrow self-service solutions.

Police and Government:
Speed up your ID document process or the identity check during a control. The PENTA Scanner 4X Cube authenticates ID documents within seconds.

Do you need the full authentication package? Combine the DESKO PENTA Scanner 4X Cube with our various software solutions.

For further information contact us via **info@desko.com**