

## DESKO PENTA Scanner® BGR

*The All-in-one Boarding Gate Reader*



The PENTA Scanner® BGR was developed for the boarding environment. It is equipped with e.g. an extra-large barcode scanning window to increase the already high usability for the agent or passenger. Furthermore, the BGR also has a 4,3" full-graphic display and multicolor LEDs for a fast and clear GO/NO-GO decision. In addition to that, the PENTA Scanner® BGR is also equipped with the well-known DESKO PENTA technology. It can therefore read passports and ID cards, barcodes, credit cards or debit cards and even ePassports or eTickets thanks

to its RFID/NFC module. The PENTA Scanner® BGR is also available with embedded PC or battery power which is perfect for desktop usage but also gives you the opportunity for a complete wireless infrastructure independent operation at any time and location. The wide variety of DESKO mounting kits for fixation of the PENTA Scanner® on e.g. a stanchion, desk or counter complete the large fields of application and make it the perfect device for a flexible and trouble-free process at every passenger touch point.



### *Your Advantages*

- Extra large scan window
- Large multicolor display – adaptable with e.g. own company logo
- Highly visible multicolor LEDs for clear GO/NO-GO feedback and volume adjustable buzzer
- Certified with all main Common Use providers
- Scratch-resistant Corning® Gorilla® Glass 3
- PENTA technology – OCR/MRZ, BCR, MSR, RFID and NFC in one device
- Standalone option – embedded PC with (W)LAN or battery pack
- Various fields of application: boarding, check-in, security and self-service





# “ENHANCED FUNCTIONALITY & FLEXIBILITY”

## TECHNICAL DATA

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

### Footprint:

L 219,9 mm (8.66 inches) ×  
W 143 mm (5.63 inches) ×  
H 191,2 mm (7.53 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  
2 × RS232 by DE-9/SUBD9  
socket (true serial host  
interface)

### Status Indicator:

Audible and visible status  
indicator

### Display:

4,3" multicolor screen  
resolution: 480 × 272 pixels

## Features

- High-Performance Barcode Scan Engine: high speed barcode scan of paper boarding passes and mobile boarding passes (from smartwatches, smartphones or even large tablets)
- ID and Passport Image Scan: high speed automatic image scan
- Light Sources: IR and visible light
- MSR Reading Module: integrated bidirectional magnetic stripe swipe reader
- Rugged Design: solid box, security glass with scratch-resistant Corning® Gorilla® Glass 3

## Optional Features

- RFID & NFC Reading Module: integrated RFID module is a dual antenna design that is especially made for ePassport and NFC reading
- China ID Reading Module: integrated RFID module specifically designed for reading China National ID Card
- Light Sources: UV-A

## 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

- Display: full-graphic multicolor display for individual graphics and text messages
- Light: highly visible multicolor LEDs for clear GO/NO-GO feedback next to display
- Sound: volume control buzzer

## Standalone

- 10 hour battery pack (optional)
- Embedded PC (optional) with (W)LAN

## Certifications

- CE, FCC, WEEE, RoHS

## Interfaces

- Host Interface: USB
- True Serial Host Interface: 2 × RS232 by DE-9/SUBD9 socket

## Documents

- Machine-readable zone of OCR documents according to ISO/IEC 7501-1 and ICAO 9303 (e.g. ID cards, passports, visas)
- 1D/2D barcode documents printed on paper or presented on displays e.g. smartphone
- RFID documents according to ISO 14443 (A/B), ISO 7816, ICAO 9303 as well as full NFC support
- 3-track magnetic stripe documents according to ISO 7811/2-5

