

PENTA Scanner – full page reader



Accuracy and efficiency in document scanning application such as border control and passenger service, with the PENTA Scanner there are no compromises. Passports, visas and any form of national ID cards – The PENTA Scanner is the smallest and most efficient full-page document reader. Fast and easy to use, the PENTA Scanner is the solid entry device for the unique technology portfolio of passport scanners from Granus.

Yours Advantages

- Full-page, passport and ID document reader with multiple light sources
- Upgradable with 4,3'' multicolour touch display
- Automatic recognition of passports and ID cards according to ICAO 9303
- Unparalleled connectivity with LAN or WLAN module
- Intelligent device with on-board CPU for stand-alone solutions
- Rugged design – solid box, extra toughened glass (standard)

System approach

Every industry – from border control and immigration environments, security and commercial service industry to passenger service and contract management – has its specific objectives and requirements. Very often a basic solution must be individualized by additional components or features. To fulfil these individualized concepts, Granus developed a modular system of Penta full-page scanners for ID data entry and verification. Module by module the PENTA Scanner evolves into an purpose optimized solution. The large scanning area supports ICAO and non-ICAO format documents, while the optionally available 4,3'' multicolour display and touch screen turn the PENTA Scanner in a full functioning self-service terminal. On board WLAN connectivity and battery pack enable this leading technology for standalone operation. The single-step reading process: optical and RFID data reading without moving the document ensures user comfort. Various hood options make the PENTA Scanner adaptable to different applications from traditional scanning to quality assurance. Optional mounting kit is available for physical integration, e.g. in kiosks.

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Features and options

- High-precision optical scan engine
- Rugged design – solid box, extra toughened glass (standard)
- Stand – alone device – battery pack (12 hours) and WiFi/LAN connection
- OEM Versions Available – for gates and kiosk projects

Modules

- ID and passport image scanning module: scans documents with three different light sources (VIS, IR, UV-A)
- Independent Barcode Recognition Module: embedded barcode engine with 1D/2D barcode reader
- RFID and NFC reading module: integrated RFID module is a dual antenna design that is especially designed for passport reading and NFC
- MSR Reading Module: integrated bi-directional magnetic stripe swipe reader (4-tracks)
- SCR Reading Module: integrated smart card reader (optional)

User Feedback

Display: full-graphic multicolour display (optional) for individual graphics. Display unit with touch technology.

Light: integrated multicolour LED on the front. Two additional multicolour LEDs near the display (optional)

Sound: high and low volume control buzzer, additional interface for external buzzer

Documents

- Machine readable zone of OCR documents according to ISO/IEC 7501-1 and ICAO 9303 (e.g.ID cards, passports and visas)
- 1D/2D barcode documents printed on paper or presented on displays e.g. mobile phone
- RFID documents according to ISO 14443(A/B), ISO 7816 (incl.US passports), ICAO 9303 (BAC, EAC, EAC2.0, PACE, AA, PA, TA, CA, ISO 18013 (BAP, EAP), PKI (BSI TR-03129)
- Magnetic stripe documents according to ISO 7811/2-5 and IATA 1722c, 722e
- Smart cards according to standard ISO 7816

Technical data

Vcc:	5V+/- 5%
Icc:	max. 2,5 A
Footprint:	218 mm x 143 mm x 128 mm
Scan Window:	94 mm x 131 mm
Image formats:	JPG, BMP, and PNG
Resolution:	150 up to 500 dpi
Light Sources:	IR, visible light and UV-A (optional)
Status Indicator:	Audible and visible status indicator