



Laser Passport Personalization



passcube® is ideal suited for secure laser passport personalization in a de-centralized topology.

This secure passport personalization solution uses an advanced fiber laser technology with unrivaled capability of deep penetration and long term stability by photo chemical reaction, laser light induced at ultimate speed. The optional sophisticated positioning system assures correct alignment of the printed text, the images and the machine readable information. Optional upgrades of the tabletop like RFID technology, together with additional security features like CLI, ensure secure best in class passport personalization.

Laser engraving stands synonymously for fast, consumable-free operations, no glued or dried nozzles - for a low cost and relaxed personalization.

tabletop document
by document operations

data sheet

nano|sec®

reliable • flexible • economical



Laser Passport Personalization

Enhanced System Security and Quality

nano|sec® not only provides plain printing technology to its customers but sets world class standards when it comes to laser printing quality versus speed and security features in order to guarantee an ideal solution for customer tailored personalization environment.

System Performance

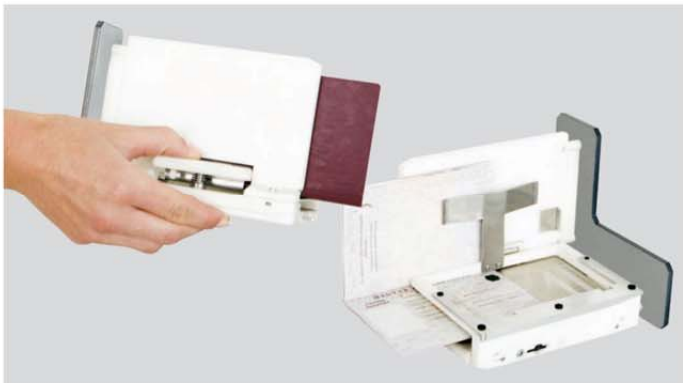
- Manual passport feeding
- EMV shielding
- Embedded particle/charcoal filter
- Max. passport throughput capacity (10W): 60 ISO ID3 booklets per hour (depending on beam source and other factors).
- Digitized photo-quality of up to 1600 dpi – no fading out over time or sunlight exposure.
- Greyscale image 8 bit
- The system offers a proven and stable passport handling.
- System can be fully and easily integrated into user's IT environment.
- Only one document in process same time.
- Each individual module is supplied with optimized specific DLLs.
- Manual loading of the passport

System Security

- Kaba Lock
- Non resettable counter
- Kensington lock (optional)
- System access control via pinpad (optional)*
- System access control via Smart card/SIM card

Optical Personalization

- Pixel text (Windows True Type Fonts)
- Tactile text
- Vector text (optional)
- Micro text (<0,2mm) (optional)
- CLI by card turning
- Ghost image



Feature Highlights

- Print process uses laser light, which is the ultimate choice for high UV stability, preventing from fading out.
- Ultrahigh resolution
- No costs for consumables, like ink or ribbons
- Smart desktop office design
- Low initial investment cost and low operational costs due to consumable-free operations.
- "Plug & Produce" system setup via USB.

Optional features

The optional modules enhance security, performance and quality to the competitive edge. The standard configuration can be upgraded by adding the following sophisticated options:

- Laser alignment to passport preprint / passport edge
- OCR preprinted number
- Vector text
- Micro text (<0,2mm)
- CLI / MLI by glass prism
- Barcode, 2D barcode
- MFC Motorized Focus Control
- Laser & system calibration*
- RFID Module
- Kensington lock
- System access control via pinpad / Smart card/SIM card*
- Ethernet, embedded Windows 7 stack
- HSM on request

Technical data

- Dimensions: 470 x 313 x 366 mm
- Weight: 28,5 Kg
- Electric supply: AC 110V to 240 V, max. 7 A, < 250 VA, config. dependent
- Ambient temperature: 16°C – 28°C
- Noise: < 65 dB (A)
- Altitude: < 2.500m
- Laser type: Pumped Fiber Laser
- Laser average power: 10W cw
- Economic life-time: >20.000h
- Laser Class: 1, IEC 60825
- Cooling: Air-cooled
- Data interface: Single USB 1.1 or 2.0 port

Additional Compliances:

- ISO/IEC 7816 (all parts and amendments)
- RoHS
- ISO 9001:2008
- CE

*Several patents pending



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