



Laser Card Personalization Table-Top



The latest global product of innovation, the nanoSec *idforce*[®]

is ideally suited for de-centralized, secure laser engraving of cards, such as bank cards or National ID's.

This secure card personalization solution uses an advanced fiber laser technology with unrivaled capability of deep penetration and long term stability thru photo chemical reaction, and high speed induced laser light.

The optional sophisticated positioning system assures correct alignment of the printed text, the images and the machine readable information.

Optional upgrades of the *idforce*[®] table-top with ISO 7816 contacts and/or RFID technology, together with additional security features like CLI, ensure secure best in class card personalization.

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

table-top
card by card operations

data sheet

nano|sec[®]

reliable • flexible • economical



Laser Card Personalization Table-Top

Leading Edge Technology

The **idforce** fulfils the latest requirements for security documents, according to the ISO specifications. The print is done with uniformly excellent print quality on PC cards. High resolution photo images, text, bar codes, signatures, tactile characters and additional graphics or security Elements – state of the art features of the **idforce** table-top. Equipped with an optional RFID read/ write module, the personalization of ID cards is performed. The printer has an internal illumination and camera system which reads printed or punched numbers or identifies certain registration marks on the blank card. It automatically aligns the engraving variable text and images with the captions.

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.

- A non resettable counter, built into the personalization system, enables the operating facility to exactly trace and track the produced card volumes.
- An EMV resistant sealed case ensures problem-free RFID personalization as well as physically protecting the printing process.
- Misusage prevention thru a hardware locking system.
- Digitized photo-quality of up to 1600 dpi – no fading out over time or sunlight exposure.
- A separate Kensington Security Lock provides secure physical locking of the printer in order to prevent theft of the equipment.
- Security features like 2D barcode or “ghost” images, as well as tactile characters, can be realized easily.
- Optical Camera System (OCR Reader Module) that recognizes preprinted numbers or barcodes on a card for BAC/EAC algorithm.
- Optical Camera System that detects the position of the legend on the card, in order to align the positioning of data and images.
- Each individual module is supplied with optimized specific DLLs.
- Tilted laser beam with glass prism.
- Data interface: Single USB 1.1 or 2.0 port
- MFC Motorized Focus Control
- CLI beam support by glass prism

System Performance

- Printer offers proven and stable card handling as well as a shock resistant housing.
- Manual card loading achieving a throughput of up to 60 cards per hour (ID-Layout).
- System can be fully and easily integrated into user’s IT environment.

Feature Highlights – **idforce**

Premium Printing Quality

- 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

Modularity & Performance

- Low initial investment cost and low operational costs due to consumable-free operations.
- Optional features (additional camera modules or RFID module) allow modular upgrade of the system- in line with the customers’ demands for quality and/ or security.
- Smart desktop office design.
- “Plug & Produce” system setup via USB.

Optional Features

The optional modules enhance security, performance and quality.

The standard configuration can be upgraded by adding the following sophisticated options:

- Magnetic stripe (HiCo and LoCo)
- ISO contacts
- Data interface: Single USB 1.1 or 2.0 port
- RFID Module for secure electronic transfer of data into the RFID chip
- Optical camera and positioning features for achieving excellent quality
- Customized graphics and personalized security elements can be included in the personalization process.
- MFC Motorized Focus Control
- CLI beam support by glass prism
- Laser power 20W cw

Technical data:

Dimension:

- Dimensions: 524 x 580 x 229 mm
- Weight: 22 Kg

Electric supply:

AC 110V to 240 V, max. 7 A, < 0,75 kW, config. depend

Operating Conditions:

- Ambient temperature: 15°C – 40°C
- Humidity: 35% - 85% relative humidity, not condensing
- Altitude: < 2.500m

Laser:

- Pumped Fiber Laser 10W cw, optional 20W cw
- Economic life-time >20.000h
- Air-cooled
- Embedded sandwich-filter, particle/ activated charcoal

Additional Compliances:

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



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