



L-100™



You can now provide the utmost in ID security through the use of laser technology, with the convenience & flexibility of a desktop printer

The latest innovation from NBS, the L-100, is ideally suited for decentralized, secure laser engraving of plastic cards, such as National ID cards and other secure ID applications.

With its compact size and small footprint, this secure ID card personalization solution uses an advanced fiber laser technology with highly secure card engraving capability and long term stability using photo chemical reaction, and high-speed induced laser light.

The L-100 is powered by our own SmartSys™ Tabletop machine control software offering users a simple PC interface while ensuring superior operational reliability.

The optional positioning system assures correct alignment of printed text, images and machine readable information. Additional options include ISO 7816 contacts and/or RFID technology, as well as security features such as MLI / CLI, ensure secure best-in-class card personalization.

Ideal for

- national ID programs
- financial cards
- driver licenses
- health cards

... and more!

**... fast, secure
& economical ...**



L-100™

Technical Specifications

LEADING EDGE TECHNOLOGY

The L-100 fulfills 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 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 & QUALITY

The L-100 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 a customer-tailored personalization environment.

- Non-resettable counter, built into the personalization system, enables the operating facility to exactly trace and track the card volumes produced
- EMI resistant sealed case ensures problem-free RFID personalization as well as physically protecting the printing process
- Hardware lock prevents unauthorized use
- 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
- Top and bottom engraving of card without flip-over station
- Tilted laser beam with glass prism
- Data interface: Single USB 1.1 or 2.0 port
- MFC Motorized Focus Control
- MLI / CLI support

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 users' IT environment

FEATURE HIGHLIGHTS

Premium Printing Quality

- Print process uses laser light, which is the ultimate choice for high UV stability, preventing from fading out
- Ultra high resolution (up to 1600 dpi)
- No costs for consumables, like ink or ribbons
- Micro print capability
- Able to produce 1D or 2D bar codes
- Able to produce high quality grayscale images

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

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)
- Smart card contacts
- RFID Module for secure electronic transfer of data into the RFID chip

DIMENSION

- Dimensions: 524mm x 580mm x 229mm (20.6" x 22.8" x 25")
- Weight: 22 Kg (48.5 lbs)

ELECTRIC SUPPLY

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

ENVIRONMENTAL

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

LASER

- Pumped Fiber Laser 10W 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
- FCC
- UL



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