

L-Series™

desktop laser engraver

L-200™

Modular Desktop
Laser Engraver



***Modular, scalable, flexible laser engraving card
with superior production capability ... NBS has it.***

The L-200 was built with expansion in mind. You can purchase an L-200 to meet your production needs today and simply add a module or two to meet your production needs in the future! Your current encoding requirement change? More encoding time per card needed? Simply add a module and maintain, or increase, your current throughput... it's that easy.

The L-200 boasts production-like speed with the convenience and flexibility of a highly scalable design. A small relatively small footprint as compared to much larger, more production-floor oriented machines, makes the L-200 a great choice for most low to mid production requirements both today and into the future.

- Low maintenance card transport
- Consumables-free making the L-200 an economical choice
- Advanced security using laser technology
- Desktop sizing allows for use in office as well as industrial environments

Ideal for

- national id programs
- financial cards
- drivers licenses
- health cards

... and more!

**... high-speed scalability
with the benefit of
laser technology ...**





L-200™

Technical Specifications

LEADING EDGE TECHNOLOGY

The L-200 is a small size and weight desktop solution combining high speed and reliability with the ability to reduce card inventory costs, minimize the cost-per-card, and protect card-holder data with a variety of advanced security features.

This expandable design delivers high-speed card handling (configuration and processes dependent) helping to provide efficiency, productivity and profitability to your card program.

SYSTEM PERFORMANCE

The L-200 offers amazing new technologies with innovative machine design and production methods in the areas of mechanics, electronics and optics, that address customer critical business issues. The open, flexible and expandable architecture provides a cost-effective platform to meet new challenges as they emerge in a variety of markets.

- Card handling < 0, 7 sec
- Spring loaded card path to reference automatically according to ISO standard
- Automatic card thickness compensation, $0, 3 > d < 1, 1$ mm
- Encapsulated optical sensors outside card path to protect from dust
- Soft roller transport for scratch-free and reliable card travel
- Proven vacuum assisted card picking technology
- Multiple card hopper and stacker, up to 4, each with selective card handling
- Multiple chip modules to maintain throughput
- Multiple laser modules, up to 4
- Low maintenance
- Meets demanding security requirements
- Comes with light tower indicating production status

Using the L-200 in a personalization center guarantees that the production can be tailored for the necessary personalization requirements of various applications (drivers license, identity card, etc.).

INTEGRATING THE INTO YOUR IT INFRASTRUCTURE

The L-200 has a built-in industrial PC (IPC) with the Windows XP® embedded operating system. The machine control software has been implemented on the IPC and contains DLL based interfaces allowing connection to multiple types of third-party personalization software applications. The L-200 DLL interfaces are designed for rapid and low risk integration.

OPTIONAL FEATURES

- Lasers:
 - 10W (up to 150 cph, Schengen compatible ID)
 - 20W (up to 250 cph, Schengen compatible ID)
 - 30W (up to 350 cph, Schengen compatible ID)
- CLI/MLI laser security feature, support by glass prism
- MM, Watermark security features
- OCR capabilities
- RFID chip personalization
- Contact chip (ISO & AFOR standard)
- Magnetic stripe (HiCo & LoCo)
- Quality check module
- Pass through / bad stack
- Multiple hopper & stacker
- User authentication via smart card
- Card cleaning module (preliminary)

ELECTRIC SUPPLY

- 100V-240V @50Hz-60Hz max. 11A, < 1,5 kW - configuration dependent

ENVIRONMENTAL

- Ambient temperature: 22°C +/- 5°C
- Humidity: 60%-85% relative humidity, not condensing

DIMENSIONS - INCL

- Width: configuration dependent, 120 mm (4.72") module spacing
- Height: max. 454 mm (17.8")
- Depth: 410 mm (16.1")
- Weight: Controller: 22 Kg (48.5 lbs); per Module: 3-7 kg (6.6 - 15.4 lbs)

LASER

- Pumped fiber laser, 10W, 20W or 30W cw
- Economic life-time >20.000h
- Class 1 laser product
- Forced air-cooled

Removable magazines:

- Card input & output: Up to 250 cards, ISO 7816-1, each
- Reject: stacker pass through

MONITORING

- One plug Ethernet connect
- Integrated industrial PC
- Optional touch screen

ADDITIONAL COMPLIANCES

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



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