

Core (Color secuRE) is a system which allows you to personalize ID cards in the format of an ID-1 card while ensuring a maximum level of security.

Born from the partnership of Evolis and the Ixla company, the Core solution combines color dye sublimation printing, data encoding, laser engraving, and lamination.



THE LASER PERSONALIZATION SYSTEM FOR ULTRA SECURE CARDS

Core is ideal for producing:

- National ID cards – eID
- Driver's licenses – eDL
- Access control cards
- Highly secure employee badges
- Payment cards

MULTI-PURPOSE

Core is a **unique system** for the instant production of secure cards, as it is capable of performing up to four operations in just one single step:

- single or double-sided **color dye sublimation printing**
- **data encoding** on magnetic stripes, contact and/or contactless smartcards (these technologies can be combined with each other)
- **laser engraving** of text, images, and security features, either single or double-sided
- single or double-sided **lamination**, with or without holograms

INCREASED PRODUCTIVITY

These four operations can be performed in one single step and, as they work in parallel with different modules, Core offers **peerless performance and productivity**.

MAXIMUM SECURITY

Cards that are laser engraved with Core can integrate different **personalized high security features**: ghost images, micro-texts, CLI (Changeable Laser Image), tactile effects, and LPI® (Laser Protected Image). These different processes, associated with data encoding and lamination, prevent all attempts to falsify the cards. Furthermore, a locking system to secure access to the laser and laminate, and a space for a Kensington® security lock ensures **secure production of the cards**.

PROFITABLE

The investment and cost of ownership (TCO) are limited thanks to the optimization of all components included in the offer (equipment and consumables).





■ Laser module

■ XY Positioning camera (optional)

■ 100-card output hopper

■ 30-card reject tray

■ Locking system preventing access to the security laser and ribbons

■ Encoding and double-sided color printing modules
 ■ All encoding options can be combined

GENERAL FEATURES

- Color printing module, laser engraving module, and laminating station
- Printing module:
 - Edge-to-edge printing
 - Single or double-sided printing
 - Color dye sublimation and monochrome thermal transfer
 - 300 dpi print head (11.8 dots/mm)
 - 16 million colors
 - 16 MB memory (RAM)
- Laser engraving module:
 - Diode Pumped Solid State Laser (DPSSL) source, 6 watts
 - Vector and raster graphics
 - Dual-sided laser engraving
 - Laser marking resolution: 600 dpi
 - Single board computer driven by Windows Embedded System (WES)
- Lamination module:
 - Heat transfer
 - Varnish or patch
 - Double-sided lamination
 - Flow: 2 mm/s to 18 mm/s
 - Temperature: 100 °C to 180 °C

SPEED OF CUSTOMIZATION

- 70 single sided cards printed per hour with laser engraving and lamination

ADDITIONAL ENCODING MODULES

- Available modules:
 - ISO 7811 HiCo/LoCo, JIS2 magnetic stripe encoder
 - Smartcard contact station ISO 7816-2
 - Contact smartcard encoder – PC/SC, EMV 2000-1
 - Contactless smartcard encoder – ISO 14443A, B, ISO15693, Mifare, Mifare+, DesFire, HID iCLASS
 - Other specific encoders upon request
- Options can be combined
- Factory-installed

OPTIONS FOR LASER ENGRAVING

- CLI (Changeable Laser Image)
- XY Positioning camera
- OCR (Optical Character Recognition)

PORTS/CONNECTIVITY

- LAN Ethernet

CARD MANAGEMENT AND SPECIFICATIONS

- Feeder capacity: 100 cards (0.76 mm – 30 mil)
- Output hopper capacity: 100 cards (0.76 mm – 30 mil)
- Reject tray capacity: 30 cards (0.76 mm – 30 mil)
- Card thickness: 0.50 to 1 mm (20 to 40 mil), automatic gauge
- Card types:
 - Polycarbonate (PC) cards
 - PET cards
 - PVC cards
 - ABS cards
- Card format: ISO CR80 – ISO 7810 (53.98 mm x 85.60 mm)

EVOLIS HIGH TRUST RIBBONS®

To maximize the quality and durability of printed cards, the lifespan of the print head and the overall printer reliability, use the Evolis High Trust ribbons®.

- Ribbon capacity:
 - UcYMCK: 200 prints/roll
 - YMCKO: 300 prints/roll
 - YMCKO-K: 200 prints/roll
 - ½ YMCKO: 400 prints/roll
- Delivered in a drop-in cassette for easy handling
- Types of laminating film:
 - Hologram varnish, full card: 400 prints/roll
 - Clear varnish, full card: 400 prints/roll
 - Clear patch of 1.0 mil: 200 prints/roll
 - Clear patch of 0.6 mil: 200 prints/roll
 - Alternate patch front/back of 0.6 and 1.0 mil: 200 prints/roll
 - Patches and varnishes on request: holograms, security inks, specific cuts
- Easy-to-load cassette for laminating films

SOFTWARE

- Software suite including all the tools for users and developers

DISPLAY

- Graphic printer status notifications using LEDs: feeder empty, cleaning alerts, end of ribbon alert, ribbon due to end, etc.



■ 100-card feeder
 ■ LED control panel
 ■ Ethernet connection

SECURITY

- Data encryption for magnetic encoding
- Locking system to access the laser and elements of lamination
- Support for Kensington® security lock

CERTIFICATION AND DECLARATION OF CONFORMITY

- CE
- RoHS
- Class 1 laser product (EN 60825)

POWER

- Power supply unit: 100-240 V AC, 50-60 Hz, 350 VA

OPERATING ENVIRONMENT

- Min/max operating temperature: 18° C / 30° C (64.4° / 86° F)
- Humidity: 20% to 65% non-condensing
- Operating ventilation: open air

SIZE AND WEIGHT

- Size: 480 x 280 x 940 mm
- Weight: 38.5 kg

WARRANTY

- 1-year warranty (printer, print head, laser, heater), limited to 100,000 insertions*
- Warranty extension available as an option

* Warranty subject to observance of specific conditions and use of Evolis High Trust® ribbons

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