



EDIsecure® LCP 9000 Laser Color Personalization System

HIGH QUALITY COLOR RETRANSFER PRINTING AND SECURE LASER ENGRAVING ON A SINGLE CARD

- Unique desktop laser color personalization system with up to 90 cards / hour (single-sided) full color printing in combination with laser engraving. Advanced Intelligent Printer Management allows the production of even more cards due to a parallel workflow
- Dedicated developed laser engine for ID card personalization
- Optional security features CLI (Changeable Laser Image) and MLI (Multiple Laser Image) can be performed in one step
- LPI® (Laser Protected Image, registered trademark of G&D)
- Double-sided printing in full color and black & white laser engraving possible on a variety of card materials (ABS, PET-G, PET/PC, PETix, and PC) in a one step process
- Printer Password Protection to increase security at the production site
- Mechanical locks on all modules to secure access to supplies and consumables
- Most flexible solution in the market due to its modularity
- Optional lamination for more durability and security

The EDIsecure® Laser Color Personalization System LCP 9000 is ideal for highsecurity corporate needs, as well as government applications such as National IDs and Driver Licenses. It integrates the advantages of high quality XID Retransfer color printing and secure laser engraving on a single card in one pass. The innovative system concept, the LCP 9000 allows the combination of an unrivaled variety of security features, such as the on demand personalization of data as micro text, CLI and MLI, LPI®, tactile effects, high resolution gradient UV printing, electronic guilloche, and IPI (Invisible Personal Information), making credential forgery and manipulation all but impossible.

The XID Retransfer technology features over-the-edge full color printing for either single or double sided cards with outstanding image quality. The Laser Engraver Unit allows inline laser personalization of personal data and images on either card side penetrating the card body, adding a higher level of security. Different encoding options such as magnetic stripe, as well as contact or contactless chip technology can be utilized. To maximize card security and durability, the system can even be combined with inline lamination modules.

All card materials such as ABS, PET-G, PET/PC, PETix, and Polycarbonate can be personalized. The LCP 9000 allows for the fast, cost-effective production of highly secure credentials, with paramount flexibility in combining various security features, for an incredibly wide range of applications.

The Laser Engraver Unit is also available as a standalone system - LES 9000 - for black and white laser engraving only, is equipped with a lockable card hopper for 350 cards and optional integrated encoders for magnetic stripe and smart cards.



THERE IS ONE FOR EVERYBODY

A NEW MILESTONE FOR REAL SECURITY

EDISecure® LCP 9000 – MODULARITY AND REAL SECURITY

The *EDISecure®* LCP 9000 Laser Color Personalization System is built up by individual components: the XID 9330 for full color printing in the highest quality, the LEU 9000 for laser engraving, and the ILM Inline Lamination Module for overlamination with clear and secure foils. All modules are equipped with mechanical security locks to provide access to supplies and consumables by authorized personnel. Thanks to the modularity of the system, the individual components can be configured and combined precisely to the customer's needs.



EDISecure® LEU 9000 LASER ENGRAVING UNIT

With a throughput of up to 90 cards per hour (single-sided) printed in full color in combination with laser engraved data, it is one of the fastest desktop laser color personalization systems on the market. Advanced Intelligent Printer Management allows the production of even more cards due to a parallel workflow. The Laser Engraver Unit allows inline laser personalization of personal data and images penetrating into the card body. With 256 degrees of grey scale, it allows for outstanding b/w tone scale reproduction. This means that any attempt to manipulate data automatically results in the destruction of the entire document. In addition, sophisticated security features such as tactile effects, on-demand personalization of data such as micro text, as well as CLI and MLI can be integrated in one step, which increases the level of security and makes the card impossible to counterfeit.

The Laser Engraver Unit is also available as a standalone system LES 9000.

EDISecure® LCP 9000 – UNRIVALED VARIETY OF SECURITY FEATURES

The innovative Laser Color Personalization System allows for the combination of an unrivaled variety of security features with unsurpassed protection against alteration and reproduction. Depending on a customer's particular requirements, security features such as LPI® (Laser Protected Image, registered trademark of G&D), IPI (Invisible Personal Information), electronic guilloche, high resolution gradient UV printing, on-demand personalization of data as micro text, CLI and MLI, LetterScreen, tactile effects, as well as custom holographic foils for surface protection, can be combined. Thanks to the modularity of the system, the security features can be combined flexibly to meet the customers' precise needs.

EDISecure® XID 9330 RETRANSFER PRINTER

The powerful *EDISecure®* XID 9330 Retransfer Printer features over-the-edge full color printing with outstanding image quality and enables various security features such as IPI (Invisible Personal Information), electronic guilloche, and high resolution gradient UV printing of static or variable images and data. The dye-sublimation UV ink ribbon allows you to add true tonal values for logos and real skin tones to photographs for better identification and security. In addition, a unique machine tracking code from each printer is automatically printed on each card with every UV dye print. This allows you to track every single card issued by your agency to verify its authenticity. The code can neither be removed nor altered. Through a comprehensive program implemented worldwide, Digital Identification Solutions and its authorized partners can track the unique machine codes of every printer so the origin of any counterfeiting attempts can be tracked back to the printer on which it was created. To avoid the misuse of personal information, Security Ribbon Erase can be applied to eliminate any monochrome black data left on a used printer ribbon.

The printer combines a wide range of inline encoding options for magnetic stripe as well as smart cards and is even able to personalize polycarbonate cards in full color, to guarantee maximum durability and security for government applications that require the longest lifetime of their credentials, such as National IDs or Driver Licenses.

EDISecure® ILM INLINE LAMINATION MODULES

Extend the life time and security of your cards with the *EDISecure®* ILM Inline Lamination Modules, which allow for single- and double-sided lamination. By applying *EDISecure®* clear and/or secure laminates on the card, the surface will be protected against physical damage and the card's life extended. An extremely impressive lamination speed of 20 seconds per card (single side) is achieved due to the unconventional portrait mode lamination. If double-side lamination is required, either a flipping device can be added to rotate the card and laminate the back side in the same ILM, or a second ILM can be connected via the flipper to the first ILM, allowing the lamination of different materials on either side of the card. A variety of laminating media is available such as clear or holographic patches in various thicknesses, patches with chip cut-outs for contact chip smart cards, partial patches for magnetic stripe cards, as well as holographic overlays.



Full-color Photo with IPI



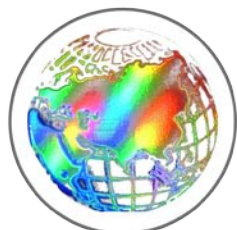
Personal data - printed or laser engraved



UV printed unique machine code



UV printed image



Holographic foil



LPI®



Laser engraved ghost image



Pre-printed OVI
the symbol shows that
the card has a contact-
less chip integrated



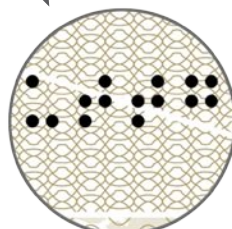
Ghost image with
LetterScreen



Laser engraved
Microtext



Laser engraved MRZ



Tactile laser engraving



MLI / CLI

FEATURES OF *EDISECURE*® LEU 9000 / LES 9000

- Single- and double-sided personalization of cards
- Performs the optional security features CLI and MLI in one step (on front and / or backside of the card)
- Compact design for heavy-duty use
- LCD panels for convenient operation
- Lockable housing for utmost security
- Ethernet LAN interface for distributed applications
- Optional integrated encoding for magnetic stripe and smart cards (contact chip and contactless)
- Can easily be combined with the optional single- and double-sided lamination modules for more card durability and security

FEATURES AND SPECIFICATIONS OF *EDISECURE*® XID 9330 AND ILM

- Compact design for heavy-duty use
- Mechanical security locks to allow access to supplies and consumables only to authorized personnel

Please refer to the data sheets of *EDIssecure*® XID 9330 and *EDIssecure*® ILM for features and technical requirements.

SUPPLIES OF *EDISECURE*® LCP 9000

- All card materials such as ABS, PET-G, PET/PC, PETix, and Polycarbonate can be personalized. All print ribbons and retransfer films as well as generic and customized laminates, certified for the use in XID 93xx Retransfer Printers and ILM Inline Lamination Modules, can be utilized.

OPTIONS OF *EDISECURE*® LCP 9000

- Security feature CLI and MLI, LPI®
- Magnetic stripe encoding (HiCo and LoCo)
- Contact chip encoding
- Contactless chip encoding (Mifare, DESFire, HID iCLASS, Legic, etc.)
- A variety of chip encoder plug-ins
- Inline lamination (single- and double-sided)

CONFIGURE YOUR CARD IDENTITY SYSTEM, ASK FOR:

- *IDExpert*® Identity Management Solutions
- *EDIssecure*® Image Capture Modules
- *EDIssecure*® Image Enhancement Software
- *EDIssecure*® Card Materials

SPECIFICATIONS OF LCP9000 (XID 9330 + LEU 9000 + ILM)

Print Method	Full color dye-sublimation re-transfer printing in combination with b/w laser engraving
Print Mode	Single- and double-sided printing
Print Speed	Up to 90 cards per hour (single-sided) full color printing in combination with laser engraving, depending on card material, print density and card coverage of print data. Advanced Intelligent Printer Management allows the production of even more cards
Card Types	ABS, PET-G, PET/PC, PETix, and Polycarbonate Cards of ISO ID-1/CR-80 size, 85.60 x 53.98 mm
Input Hopper Capacity	LCP 9000: 300 cards (0.76 mm)
Operating System Support	Complete print management software suite for users and developers as well as Microsoft® Windows printer driver for Windows XP, Windows Vista, Windows 7 (32-bit)
Dimensions	991 x 580 x 484 mm (WxDxH)
Weight	approx. 90 kg
Operating Environment	15°C to 30°C, 35% to 70% non-condensing humidity

ADDITIONAL SPECIFICATIONS OF LEU 9000 ONLY

Laser Type	12 W air cooled DPSS laser source
Laser Engraving Speed	Up to 180 cards per hour laser engraving only, depending on card material, print density and card coverage of print data. Significantly higher speed for engraving of text only
Card Types	ABS, PET-G, PET/PC, PETix, and Polycarbonate Cards of ISO ID-1/CR-80 size, 85.60 x 53.98 mm
Interface	Ethernet LAN (USB for chip encoding)
Dimensions	340 x 580 x 484 mm (WxDxH)
Weight	approx. 55 kg
Power Supply	90-240 V, 50/60 Hz, 800 VA
Approvals	CE, cTÜVus, FCC, WEEE

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