LASER COLOR
PERSONALIZATION
SYSTEM

LCP 9000

MATICA
TECHNOLOGIES

A NEW MILESTONE FOR REAL SECURITY

- 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) and FUSE®-ID (by G&D)

- tru/window™ LOCK (by Trüb AG)

- 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

- Most flexible solution in the market due to its modularity

- Optional lamination for more durability and security

The *EDIsecure®* LCP 9000 Laser Color Personalization System is ideal for high security corporate needs, as well as government applications such as national IDs and driver licenses. It integrates the advantages of high quality *X*ID retransfer color printing and secure laser engraving on a single card in one pass. With its innovative assembly, 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®, FUSE®-ID, tru/window™ LOCK, tactile effects, high resolution gradient UV printing, electronic guilloche, IP-I™ (Invisible Personal Information) and LetterScreen™ (by Jura JSP), making credential forgery and manipulation all but impossible.

The *X*ID 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 - the LES 9000 - for black and white laser engraving only, is equipped with a lockable card hopper for 350 cards and offers optional integrated encoders for magnetic stripe and smart cards.

EDISECURE® LCP 9000 – MODULARITY AND REAL SECURITY
The *EDIsecure®* LCP 9000 Laser Color Personalization System is built from three individual components: the *X*ID 9330 for full color printing in the highest quality, the LEU 9000 for laser engraving, and the Inline Lamination Module (ILM) for overlamination with clear and secure foils. All modules are equipped with mechanical security locks to limit access of consumables to only authorized personnel. Thanks to the modularity of the system, the individual components can be configured and combined precisely to meet any 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 tonal 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, FUSE®-ID (by G&D) or tru/window™ LOCK (by Trüb) 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 as the LES 9000.

EDISECURE® XID 9330 RETRANSFER PRINTER
The powerful *EDIsecure®* *X*ID 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, Matica Technologies 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 and 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 lifetime and security of your cards with the *EDIsecure®* Inline Lamination Module (ILM), which allows 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, 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.

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 on-demand personalization of data as micro text, tactile effects, CLI and MLI, high resolution gradient UV printing, IPI™ (Invisible Personal Information by Jura JSP), LetterScreen™ (by Jura JSP), LPI® (Laser Protected Image) and FUSE®-ID (by G&D), tru/window™ LOCK (by Trüb AG), electronic guilloche, 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 customer's precise needs.
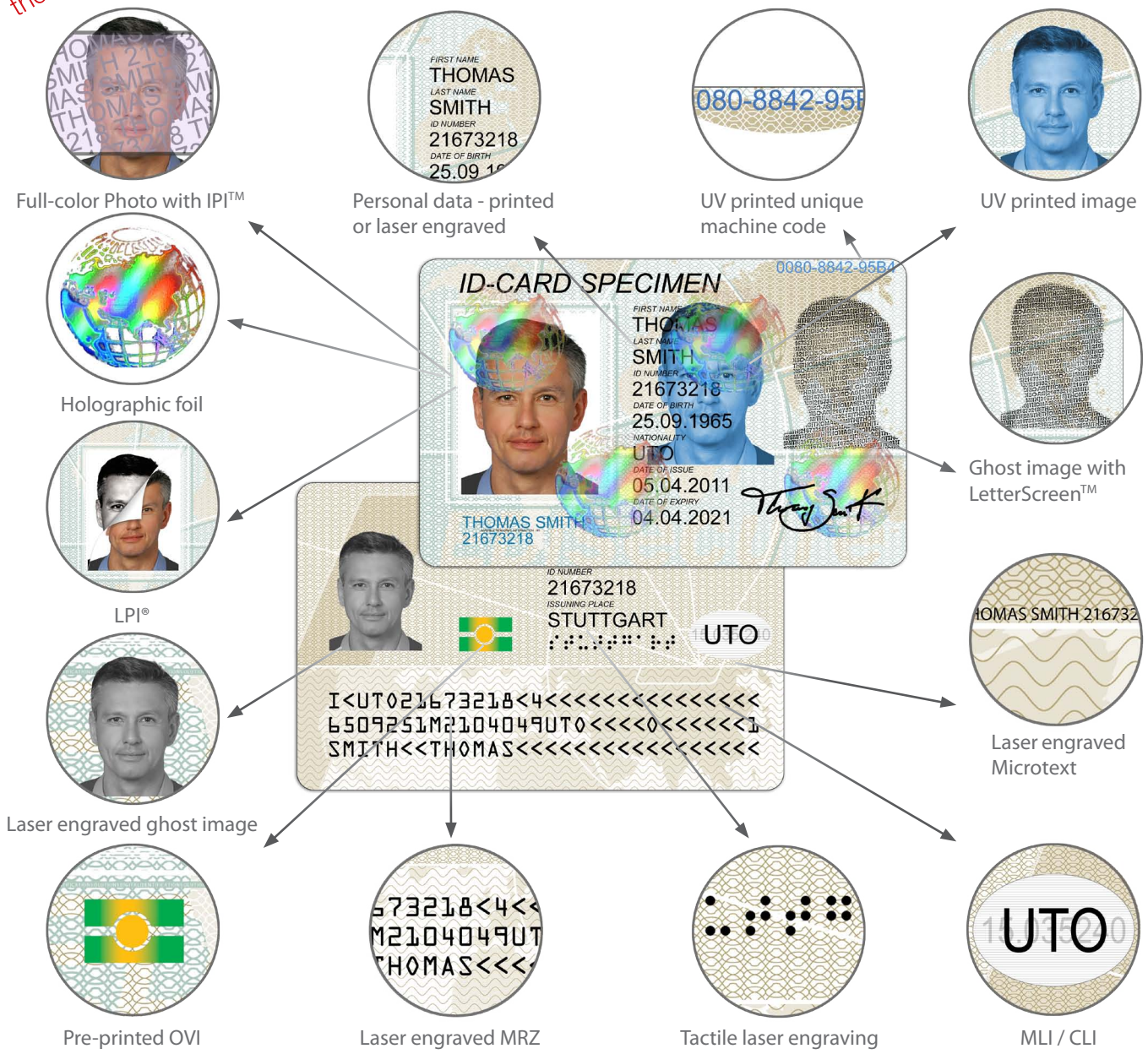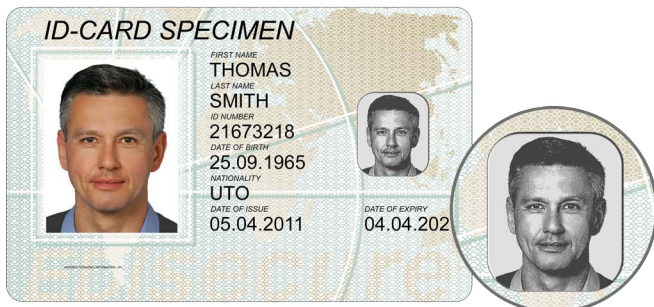
Full-color Photo with IPI™

Personal data - printed or laser engraved

UV printed unique machine code

UV printed image

Holographic foil

ID-CARD SPECIMEN

0080-8842-95B4

FIRST NAME
THOMAS
LAST NAME
SMITH
ID NUMBER
21673218
DATE OF BIRTH
25.09.1965
NATIONALITY
UTO
DATE OF ISSUE
05.04.2011
DATE OF EXPIRY
04.04.2021

THOMAS SMITH
21673218

Ghost image with LetterScreen™

LPI®

ID NUMBER
21673218
ISSUING PLACE
STUTTGART
UTO

I<UTO21673218<4<<<<<<<<<<<<<<<
6509251M2104049UTO<<<<0<<<<<<1
SMITH<<THOMAS<<<<<<<<<<<<<<<<<

THOMAS SMITH 216732

Laser engraved Microtext

Laser engraved ghost image

Pre-printed OVI

Laser engraved MRZ

Tactile laser engraving

UTO

MLI / CLI

tru/window™ LOCK

ID-CARD SPECIMEN
FIRST NAME
THOMAS
LAST NAME
SMITH
ID NUMBER
21673218
DATE OF BIRTH
25.09.1965
NATIONALITY
UTO
DATE OF ISSUE
05.04.2011
DATE OF EXPIRY
04.04.202

FUSE®-ID

ID-CARD SPECIMEN
FIRST NAME
THOMAS
LAST NAME
SMITH
ID NUMBER
21673218
DATE OF BIRTH
25.09.1965
NATIONALITY
UTO
DATE OF ISSUE
05.04.2011
DATE OF EXPIRY
04.04.202