

DERMALOG

Biometric ID Cards

Multiple fields of application for secure documents.



DERMALOG ID Cards – Multi-biometric solutions Made in Germany.

Digitally encoding personal information

DERMALOG offers multi-purpose biometric ID Cards for governmental and commercial fields of application – for example Civil Servants Cards, Health Cards, Drivers Licenses or Seafarer’s Card. Several countries are using a DERMALOG system to register non-national workers to issue their biometric Foreign Workers Cards (Green Cards) as well as Permanent Residents’ Cards. DERMALOG can look back on successful implementations worldwide – tailor made according to individual customer requirements.

DERMALOG – the pioneer for multi-purpose biometric national ID

DERMALOG has successfully delivered the registration system, central database AFIS/ABIS and biometric ID Cards for numerous national registration departments. The world’s first multi- purpose biometric national ID Card was supplied by DERMALOG to the state of Brunei in 1998.

DERMALOG offers supplemental hardware

In addition, DERMALOG can provide state-of-the-art hardware: document readers, chip and RFID card readers, 2D barcode readers as well as fingerprint scanners adapted to special application requirements.

ID Cards for multiple purposes.

Social Welfare Card

A cashless welfare card assists individuals accessing government services and makes it harder for people using false identities requesting multiple benefit claims.

Payment Card

An ID-based Payment Card allows payment services including several levels of security. After being identified by the ID Card, a customer is able to use the payment functionality.

eID Card

DERMALOG has successfully delivered the registration system, central database AFIS/ABIS and biometric ID Cards for numerous national registration departments.

Civil Servants Card

DERMALOG's Civil Servant's Cards are in use with the DERMALOG AFIS. They ensure correct single identities of government servants and prevent individuals from receiving multiple salaries ("double dippers").

Foreign Workers Card

Several countries are using a DERMALOG system to register foreign workers and to issue their biometric Foreign Workers Cards (Green Cards) and Permanent Resident's Cards.

Pensioner Card

Pensioners as well as clearly defined benefit recipients have access to specific services thanks to biometrics-based cards.

Health Insurance Card

Complete biometric Health Card Systems have been supplied by DERMALOG: clients are insurance companies and Health Ministries.



Drivers' License

Another area of application for biometric cards is the use for driver's licenses and for car registration.

Voter Registration Card

In some countries, voters need to register for a Card to vote in city, county, state or federal elections.

Seafarers Card

DERMALOG has supplied complete systems for biometric seafarers' registration, including Seafarer's Cards, e.g. to Malaysia and Bangladesh. DERMALOG is one of the few ILO certified companies, which is able to print a biometric barcode, which is readable in every international port.

Loyalty Card

In storing identifying information on the card – it can be used to speed up verification for payment by cheques. Privileges like access to lounges in airports for specific individuals are a use case for ID Cards as well.

* applications adapted to customers' requirements.

Biometrically secured documents.

DERMALOG ID Cards contain a number of features according to individual needs. The processor chip can be equipped with different encryption methods. (For example RSA & DES encryption/ Private key and public key/Challenge response). Several biometric features are included as requested - like chip personalisation, Live fingerprint comparisons, encoded Face/Fingerprint/Iris images (optionally chip or barcode), additional database matching.

Typical process workflow for DERMALOG ID Cards



Registration

A National ID Card System by DERMALOG involves a digital registration process. It provides capturing of biometric data complemented with country specific information. Relevant biographic and biometric data obtained from fingerprints, face and iris, a digital photo or signatures can be captured and stored.



Single identity check

Enrolled biometric data will be compared with all database records registered in AFIS/ABIS to prevent duplicate identities. Optionally a watchlist check is performed.



Personalization

After the single identity check the data is written on the chip.



Quality check

After personalization the cards quality is ensured. The data on the chip is verified. Data and security information on the card are confirmed.



Authentication

Live Fingerprint/Iris/Face comparison with the data stored on the chip. (On-card matching and off-card matching).

Possible security features for DERMALOG ID Cards.

DERMALOG ID Cards contain a number of features according to individual needs. The processor chip can be equipped with different encryption methods. For various use cases, all around the world the DERMALOG ID Card feature design is fully customizable.



Design fully customizable

1. UV printing

Printed elements on the card are only visible under UV light. Designs are individual.

2. Transparent holograms

The hologram image can be seen at particular perspectives only - which allows the visibility of information on the card lying under the hologram.

3. Rainbow printing

Security background patterns produced with rainbow printing protect ID documents against attempts of forgery through copying, scanning or printing.

4. Relief embossing

For example, the shape of individual characters is embossed on the card – the characters are noticeable.

5. OVI

Optical variable inks shifting the colour depending on the viewing angle.

6. Metallic ink

Metal particles within the ink reflect the light and



create a metallic shine.

7. Micro printing

To prevent unauthorized attempts of copying or scanning the micro text is printed very detailed.

8. MLI

Multiple Laser Images change depending on the viewing angle.

9. Guilloche printing

Intricate mathematical design printed as a high-resolution ID Card security feature.

More information:



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