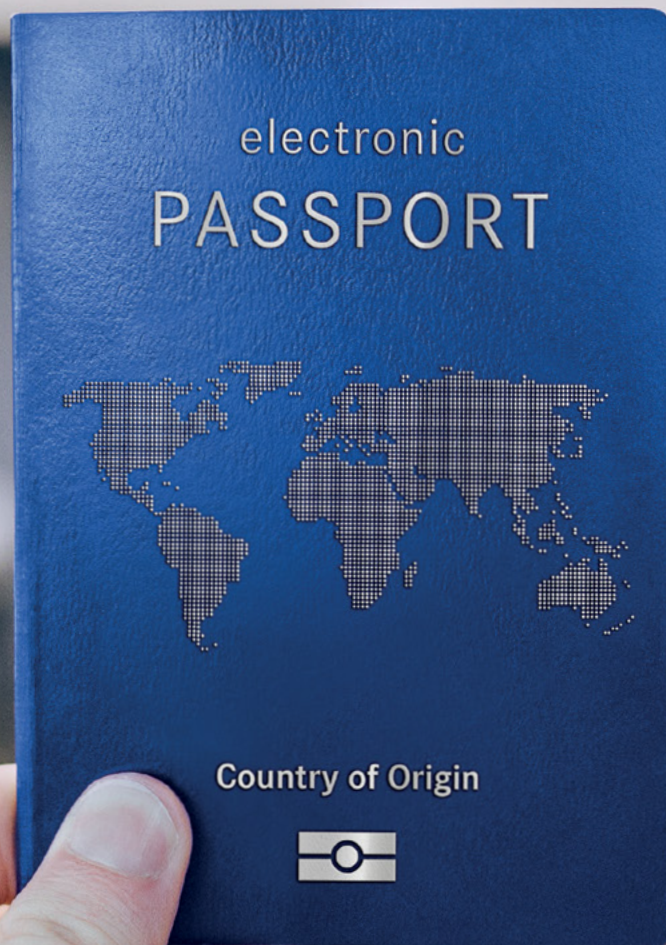


# DERMALOG

## Electronic Passport

Raise security, lower risk.



# DERMALOG electronic Passport – based on global Experience.

In a globalized world the increasing mobility creates a need for secure travel documents that adapt to new security threats. New ICAO (International Civil Aviation Organization) standards and the transition from conventional to ePassports present new challenges to government agencies.

DERMALOG is a trusted partner who has significantly improved verification of travellers' ID by preventing fraudulent activity such as skimming or duplication. Unauthorized persons are securely stopped from entering countries using forged travel documents. DERMALOG ePassports strengthen the connection between a document and its carrier and safely verify the passports' authenticity.

DERMALOG's ePassports comply with ICAO guidelines (Doc 9303) and protect the citizen's privacy by securing biometric and demographic data. The electronic documents contain an integrated encrypted chip, storing data such as fingerprint images and a digital version of the ID photo. Crossing a border will be automated, fast and secure.

DERMALOG offers a wide portfolio of ePassports and corresponding components – meeting a wide range of government agencies' needs. Including: complete ePassport documents as well as electronic components such as inlays or data pages with integrated electronic components.

ePassports equipped with trusted DERMALOG solutions for registration, issuance and verification of documents. Complete end-to-end tailor made and modular solutions based on in-depth knowledge of identity experts.

Depending on a customers' requirements DERMALOG delivers both centralized and decentralized document issuance systems - including secure public key infrastructure (PKI) management implementation.

DERMALOG offers solutions relying on experience gained from worldwide projects - including fully installed border control systems in Brunei, Kuwait and Cambodia and an ePassport-system installed for the Republic of Maldives. All over the world DERMALOG has organized implementation on time, proper maintenance, comprehensive training and professional services.

DERMALOG's portfolio of ePassports with unbeaten secure identity expertise contains all it takes for a secure program – including maximum efficiency.

# Features of DERMALOG ePassports.\*

## „Chip-inside“ Icon

ePassport with contactless IC containing a biometric identifier (face, fingerprint, iris) to authenticate.



## Visa Pages

Security features may include laser perforation numberings, different security designs, visible and invisible fluorescent fibers, rainbow printing etc.



## Data Page

DERMALOG ePassports are available in different materials, such as polycarbonate or paper laminated with security hologram overlay. Examples of security features may include multicolor guilloches, relief gravures, rainbow printing or, uv ink.



## Printed Data

The data that is printed on the passport is compliant to ICAO and contains information such as the issuing state, passport number, date and place of birth, sex, date of issue et al.

**E-cover** in different colors with integrated chip inlay, chip operating system (SAC, EAC or BAC) and contactless chip. The surface can be specifically manufactured for machine readable passports.



## Inlay

Consists of numerous components such as antennas, IC modules etc. protecting the stored data on the contactless chip.

## Integrated RFID Chip

The integrated contactless chip stores encrypted, compressed information: biometric data, ICAO photos and biometric facial, iris and fingerprint images or a signature of the e-Passport holder that can be retrieved without any loss of information.



\* features adapted to customers' requirements.





## DERMALOG configurable ePassport Systems.

DERMALOG solutions provide an essential advantage. Their flexibility helps to configure systems to meet any criteria. Modularity enables to add new technology to complement existing systems.

Depending on requirements DERMALOG has delivered both centralized and decentralized security identity document issuance systems – including secure PKI management implementation, fulfilling all ISO, NIST, ICAO requirements for security data flow and standards conformation.



**ABIS**



## Registration

A biometric ePassport system by DERMALOG involves a digital registration process. It provides capturing of biometric data in compliance with ICAO guidelines and ISO/IEC 19794, complemented with country specific information. Relevant biographic and biometric data obtained from fingerprints, face and iris, a digital photo or signatures are captured and stored.



## Approval/Data Check

Scanned fingerprints will be matched against a database to check if they are already registered. The applicant's nationality is checked, e.g. from an ID card and the information is e.g. compared with blacklists and duplicates.

The process is concluded by:

1. either a rejection of the holder's application or
2. the issuance of a new ePassport to the carrier

## Personalization

After ePassport application data passes approval process, it is transferred to the personalization database.

The ePassport personalization may include the following processes:

1. ePassport personalization data preparation
2. Personalization
3. ePassport quality check (QC)

DERMALOG offers user-friendly ePassport personalization systems.

## More information:



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