



# IRIS ePassport

## World Class Travel Document



## ePassport Revolution

The electronic passport or ePassport, has been a globally accepted travel and identity document used by hundreds of million people traversing our world every day.

For governments and travellers around the world, the implementation of ePassports has brought with it unprecedented levels of security and convenience.

As a leading technology-intensive company, IRIS has pioneered numerous breakthrough identity products and solutions for greater national and trans-border security.

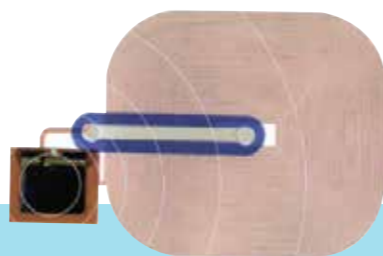


As a pioneering manufacturer of the ePassport, we are ever mindful of the need for mitigating the mounting and evolving threats of global terrorism, illegal migration, fraud, and cyber crimes.

Our job is to supply tamper-evident and fraud-proof ePassports that facilitate highly secure and interoperable identification and authorisation processes as required by governments or border control authorities.

We offer a comprehensive range of tamper-evident and forge-resistant components, from eInlays, eCovers to ePages (data page).

We continuously enhance the ePassports we produce using the latest technologies. All ePassport components are loaded with best-in-class high security innovations to protect both the book and its data from unauthorised access.



### World's First ePassport

In 1998, we put a chip into the conventional paper passport book. That tiny new ripple sent big waves into the world of secure identification documents. The Malaysian invention went on to become the impetus for the International Civil Aviation Organization (ICAO) to approve the landmark New Orleans resolution adopting contactless smart card technology in conventional passports.



### Cutting-edge Technology

As ePassport technology progresses, we are further evolving the 7th generation embedded chip and antenna to enhance security, eliminate data tampering and duplication, and facilitate the monitoring of traveller border crossings with additional biometrics as well as read-write functionality.

## High Security ePassport

### Designed for quick verification and authentication

IRIS ePassport books are designed and manufactured to be globally interoperable – booklet with a choice of eInlay, eCover or ePage of both the document and its bearer. We believe in providing a secure, durable and innovative ePassport solution.

We are in regular communication with the International Civil Aviation Organisation (ICAO) who is set to introduce next generation Logical Data Structure (LDS 2.0) protocols for the reading and writing of electronic travel stamps, electronic visas and additional biometric data (post issuance updates) into ePassport chips.



IRIS ePassport

## Our ePassport Components

### IRIS eCover

Our ICAO 9303 compliant eCovers feature superior, smooth and flat finishing for our ePassport books which are renowned for their durability and dependable service life.

IRIS eCovers demonstrate high bond strength and adhesion with proven resistance to delamination. The antenna and contactless chip are securely embedded and bonded with high strength adhesives between layers of laminate materials.



IRIS eInlay

### IRIS eInlay

We manufacture high quality, reliable, ICAO 9303 compliant with excellent electrical performance as inserts for our long service life ePassport books.

Both the antenna and contactless chip are embedded within layers of durable, synthetic paper and polyethylene terephthalate (PET) to produce ultra smooth, thin and flexible eInlays.

### IRIS ePage

Our laser-ready polycarbonate (PC) passport data pages are available with and also without embedded chip and antenna.

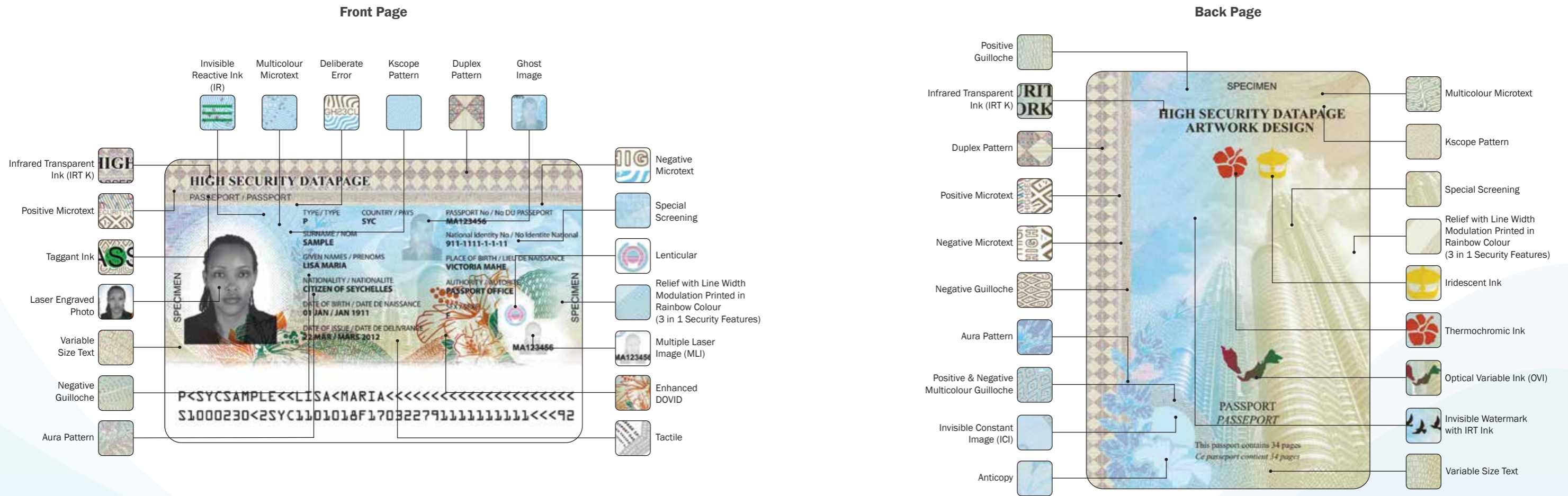
Besides being artistically designed and customised to present and reflect a country's cultural symbols and national values, the data page also features an array of innovative security features to prevent counterfeiting and tampering.



IRIS ePage

# Sophisticated Security Features

At IRIS, our professional and experienced designers use the latest software and technology to create highly secure and distinctive designs to suit the unique requirements of individual clients with a choice of overt, covert or forensic security elements. We can offer more than 30 security element options combined with high quality materials to guarantee the production of highly secure and durable ePassports as well as to combat specific threats.



## We offer bespoke end-to-end solutions for secure ePassports



## Beyond the Book

As the ePassport becomes increasingly ubiquitous, governments and border agencies are focusing beyond the book.

The document cannot exist by itself. The ePassport derives its true value within an ecosystem of software, hardware, processes and trained personnel.

At IRIS, we understand the importance and complexities of secure authentication, verification and authorisation concerns.

We offer simplicity with a single, powerful, integrated ePassport platform that ensures efficient and highly secure issuance and management of ePassports.

To ensure a winning edge in the never-ending race between security and fraud, IRIS has developed a multi-tiered software architecture that encompasses five disparate technologies.

- Silicon technology
- Operating system
- Customised application
- Multi-modal biometrics
- Smart devices

All five technologies are uniquely integrated into our ePassport solution while in compliance with the latest national and international regulations and technology standards.

IRIS ePassport solution is a comprehensive, adaptable and easy-to-deploy secure document management system that integrates security, inventory, workflow and lifecycle requirements which enables enrolment, production and issuance of all ICAO-compliant ePassports to further enhancing security, efficiency and convenience of managing ePassports.

## Key Advantages of IRIS ePassport Solution

- Complete end-to-end integrated ePassport system.
- Robust and secure infrastructure, from enrolment to document delivery & control.
- Rapid ePassport production & implementation in less than 4 months.
- Ability to select security feature application according to the ICAO 9303 recommendations.
- Optimal use of proven technology already in use in similar secure documents since 1998.
- Availability of symmetric key technology guarantees the security of blank ePassports and data transmission.
- Availability of digital signature to mitigate risk of chip data tampering.
- Adoption of the Public Key Infrastructure (PKI) technology to prevent ePassport cloning.
- Certified by Intergraf for security printing (ISO 14298) and as trusted security supplier (CWA 15374).

## Global Expertise You Can Rely On

As a solution architect, service provider, innovator, inventor and manufacturer, we collaborate with governments, businesses and industries from 34 countries across the globe providing award-winning solutions to meet their identification, verification and authentication needs.



"IRIS Corporation Berhad was an easy choice to engage for the project as it is recognised for producing Asia's first integrated smart card facility and for launching the first e-Passport in Malaysia in 1998."

**Manasseh Sogavare, Former Prime Minister of Solomon Islands**



"IRIS Corp Bhd is a great model to highlight how Malaysian companies are well accepted here, as it worked hard to deliver and ensure the success of projects."

**Elhadj Madifing Diane, Former Security & Civil Protection Minister of Republic of Guinea**



# Our Secure Solutions

We offer comprehensive, sustainable, highly adaptive, and customisable Trusted Identification software and solutions that are built on secure platforms and architecture. Our proven solutions unify security, inventory, workflow, and lifecycle requirements while managing enrolment, production, issuance of physical, electronic and digital documents such as identity cards, ePassports, driver's licenses, voter cards, travel visas and many more.

 <p>IRIS eID and Digital Identity Solution</p>	 <p>IRIS ePassport Solution</p>	 <p>IRIS Border Control Solution</p>	 <p>IRIS Driver's License &amp; Vehicle Registration Solution</p>	 <p>IRIS Voter's Card Solution</p>	 <p>IRIS eVisa Solution</p>
 <p>IRIS Smart Card Solution</p>			 <p>IRIS Secure Document Solution</p>		 <p>IRIS Smart Devices</p>

## Why IRIS ?

We are a globally recognised dual-certified security printer and technology-driven company. Our experience of more than 25 years has allowed us to pioneer numerous break-through identity products and solutions for greater national and trans-border security - inventing the world's first ePassport and the world's first multi-application National ID card. Our comprehensive range of trusted identification solutions span the globe. From the manufacture of smartcards and secure travel documents to the devices and software architecture required for authentication, we continue to integrate disparate technologies that are Innovative, Relevant, Intelligent and Secure to bring to life solutions that are sustainable.



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