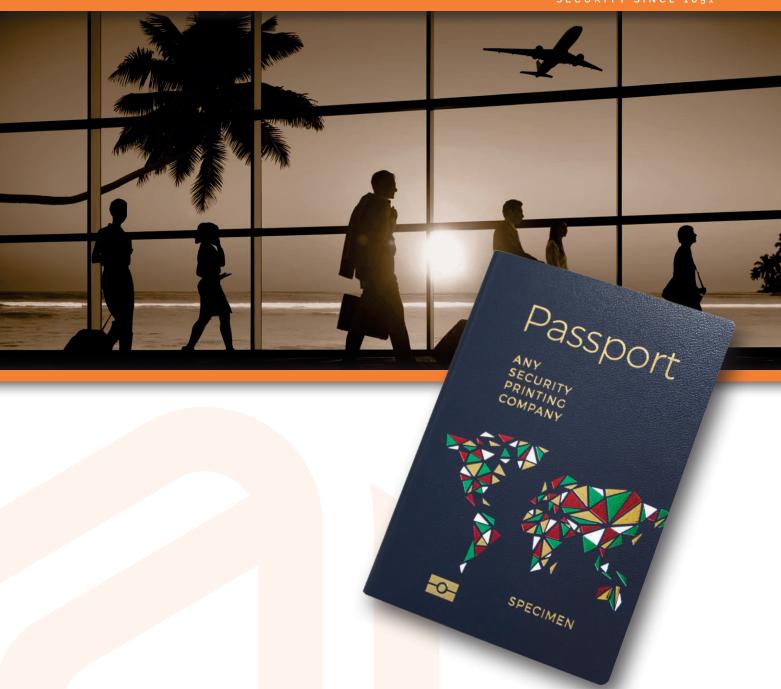


SECURITY SINCE 1851



## **ePassport**

production and personalisation

# ePassport

production and personalisation

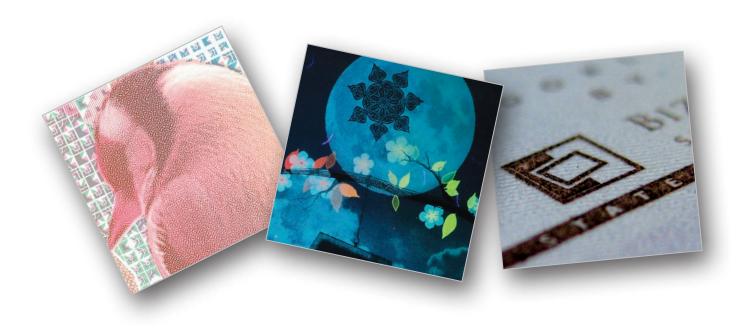




ANY Security Printing Company PLC has a diverse portfolio of products, among others in the range of documents used to identify citizens. Today's documents are both physical and digital data carriers with a range of security features and anti-counterfeiting protection, their decorative, colourful graphics also display national symbols in a country-specific way. However, behind the attractive exterior, hidden features ensure that the products have the highest levels of security and protection against counterfeiting. Creating a new document is an extremely complex process, which requires joint reflection with representatives of the relevant areas of public administration. ANY's comprehensive consultancy and complex production process have been trusted by over 50 countries around the world, which are all using at least one of the Company's products! ANY has the technological and professional background to produce and personalise ePassports and visas. ANY offers fully ICAO 9303 compliant passport booklets, carrying much more security elements than it is obligatory.

### About the production

design and manufacturing process includes the following elements



document and system planning design, security graphics, pre-press raw material
multitoned watermark,
chemical protection,
self-developed security
inks and additives,
paper or polycarbonate
data page

offset, screen and intaglio printing direct colours, rainbow printing, IR absorbent and thermochromic element





ANY undertakes the whole design and manufacturing process with safe, closed technology and a certified and ratified safety and production-technology system. The documents with unique, exclusive security solutions, developed by our Document Security Laboratory, are produced in an audited environment in accordance with the strictest data security regulations. The know-how and experience of our experts enable us to provide a complete service from effective production of security documents including design, printing, up to final products' packaging and verification solution.

#### additional technologies

hot stamping, laminating, booklet binding, security sewing, punching, cutting

### chip and visual personalisation

ICAO compliant chip module, serial numbering, laser perforation, inkjet technology, laser engraving

#### verification

self-developed document verification devices



### **eCover**

The innovative, colourful graphic elements on the cover, which are unique in the market, are our new developments. The cover of the passport is hot stamped, which may be either monochrome or multicoloured. This is a spectacular feature, which is also hard to counterfeit.

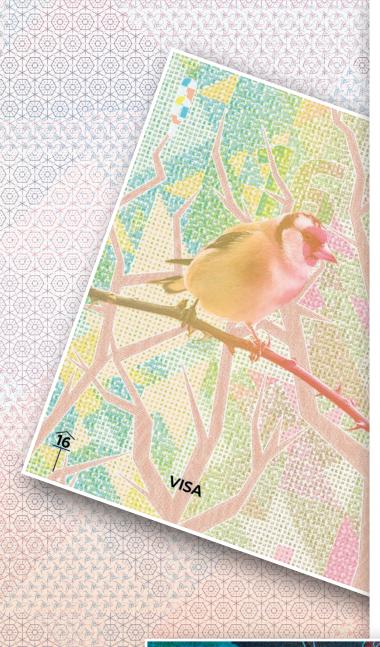
Creative, colourful



#### Inside front/rear cover



Inside front/rear cover under UV light



# Visa pages

The pages are designed with high-security graphics – displaying symbols defined by the customer, printed with our self-developed, unique security inks – to protect the document against copying, counterfeiting, or fraudulent alteration.



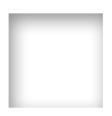
Visa page under UV light



### Data page

The produced document needs to be personalised. The personalisation technology mostly depends on the type of the data page. The data page might be the most important part of a passport. We offer different types:

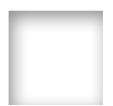
Paper data pages should be personalised with inkjet technology. For this basically decentralised technology, we offer state-of-the-art systems containing printers and special inks.



Paper



Full polycarbonate and fused polycarbonate data pages are typical subjects of centralised personalisation with laser engraving technology.



Polycarbonate



### OUR LATEST DEVELOPMENT FOR POLYCARBONATE DATA PAGES

#### LENA





The transparent window can be considered a security feature as it is, but it opens space for placing other security features. The window provides a central position for placing a laser engraved secondary photo of the bearer that can be seen on both sides of the data page.

In order to make the window feature more secure, we developed a specific, printed security device called LENA.

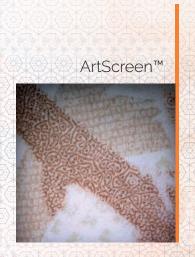
The print is invisible in both normal and UV light. However, its presence can be easily verified by holding the window over a simple piece of copy paper and illuminating it with a basic flashlight. The printed pattern becomes clearly visible as a shadow. This provides the simplicity of checking like a usual second-level device, while being more deeply concealed than a typical fluorescent print.

### Security fibres

Position of the security fibres are determined within the layers of the card. The fibres are fixed to the foil while its laminating. The specific area of the surface containing the fibres is about 3 cm², the range of the fibres is from 3 to 15 pieces per data page with random distribution.



# **Security features**





multicolour randomised security screen



OVI™ - colour changing prints, rosette feature design, intaglio printing



IR absorbing/transparent intaglio print

latent image

fibres and shiny dots



circular screen

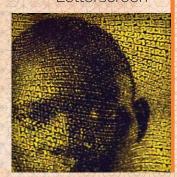


intaglio printing





Letterscreen™





Jura IPI™



Kinegram™



CLI or MLI

positioned embedded hologram



tactile hinge

invisible IR absorbing image



This security
element is printed
inside of the data
page, acting like a
watermark.
By turning the
data page against
a powerful light
source an image
of a bird sitting
on a branch
becomes visible.



buried image



shadow image

Security features

This watermark-like feature gives extra security to the document. In infrared radiation (850-950 nm) the image of the bird only (without the branch) shows up as a faint shadow image.

#### **ANY Security Printing Company PLC**

### **About the Company**

ANY Security Printing Company PLC was founded in 1851. The Company is one of the leading security printing companies and an identity solutions provider in the Central Eastern European region. Its head office is located in Budapest, Hungary. With more than 1000 employees in 5 countries at 10 premises, its goal is to make people's everyday life more secure and more comfortable. The Company's shares have been listed on the Budapest Stock Exchange in the premium category since 2005.

ANY does not only produce documents, it also provides secure person identification, innovative product identification and data logistics in large volumes.

The Company specialises in providing products and solutions for state administrations. These products and solutions for governments are varying in numerous fields: identity cards (e.g. residence permit, refugee card, driving licence, student card, voter's card), paper-based documents (e.g. breeder document, election forms), documents for person identification (e.g. passport, visa) and other official documents as well as vouchers and excise and tax stamps. ANY offers modular products and complex services in the process of document issuing. Its references, special technology, security preparedness, more than 170 years of experience and 12 domestic and international certificates guarantee that it can offer the best possible products for its Customers.

#### References

- Hungarian electronic identity card
- Sri Lankan ID card, driving licence
- Hungarian ePassport
- Vanuatu passport
- Driving licences in more than 4 countries
- European and Ghanaian health insurance card
- Schengen (for 3 countries) and Guinean, Cameroonian, Angolan visa stickers, Ivory Coast diplomatic visa
- Hungarian, Ivorian and Yemeni excise, tax and revenue stamps
- EU residence permit
- Election forms in 3 countries
- Vouchers for Sodexo Group
- Norwegian and Burundi vehicle registration certificate
- Georgian sea services book, seafarer's documents

# Domestic and international certificates

- certified bidder and securities producer of Hungary
- authorised supplier to NATO (up to NATO "Secret" level)
- Industrial Security Clearance up to NATO and EU "Secret" level, system licence for classified data management
- Industrial Security Clearance up to national "Strictly confidential" level, system licence for classified data management
- ISO 9001 quality management system certificate
- ISO 14001 environmental management system certificate
- ISO 27001 information security certificate
- ISO 14298 certificate (Central Bank level, Governmental level)
- ISO 45001 occupational health and safety management system certificate
- AQAP 2110 certificate
- MasterCard Card Quality Management certificate

#### Value-added services

- decades of experience in document production and issuing
- special inks and additives, printers and control devices developed by ANY
- full lifecycle management of issued documents
- know-how transfer



Our products are manufactured using cutting-edge technology coupled with our staff's innovative professional knowledge. Our references, special technology and security preparedness guarantee that we can offer the best possible product for our customers. Please do not hesitate to contact our colleagues if you have questions.

#### ANY SECURITY PRINTING COMPANY PLC

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