

# Excise and tax stamps

products and verification

identity  
form  
card  
mobile  
payment



security since 1851

# Excise and tax stamps

## products & solution



*Hungarian excise and tax stamps*

ANY Security Printing Company PLC supports state administration in document and product protection projects from conception planning to production, as it has more decades of experience and references in production of excise and tax stamps and document issuing. Products and solutions include different fields, like personal identification – eID, passport, visa-, fight black economy – excise and tax stamps- or ballot printing. Numerous security solutions have been developed in its Document Security Laboratory, including security inks and paper additives, document printers and special document control devices.

For protection of excise and tax stamps, ANY Security Printing Company PLC offers a complex protective solution, which includes succeeding elements and it is supplemented with a security control device.

Together with its consortium partner, ANY Security Printing Company has been delivering its products certifying payment of the excise duty and including special security solutions to the National Tax and Customs Administration of Hungary since 1996. As a result, the number of falsifications causing damage to the budget decreased to a fraction of the original number.

Excise and tax stamps are extensively used in the fight against smuggling and illicit trafficking of alcohol and tobacco products worldwide. These old but still powerful security devices require continuous change and renewal of protection and overall appearance.

Based on our experience we always think in stamp-families. The “family members” are very similar in terms of applied security features and graphics whilst, the used

colours are different, providing sharp difference for even a short glimpse. For protection ANY Security Printing Company offers complex protective solutions as well as separate devices.

### INSPECTION POSSIBILITIES

ANY tax stamp family members include the most different security features.

1<sup>st</sup> level security features are visible by naked eye:

- hologram
- graphic features

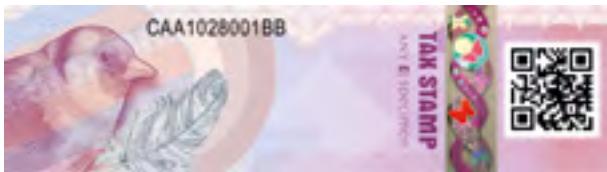
2<sup>nd</sup> level security features can be inspected by simple document inspection devices (UV lamp, magnifying glass):

- micro writing
- fine graphical elements
- UV fluorescent printing inks
- security fibres
- shiny dots

3<sup>rd</sup> level security features can be inspected by special, more complicated handheld verification devices (RadIR, VerifIR, ICI and IPI lenses etc.) or in laboratories:

- special, unique security graphics as agreed with the Customer
- combined fluorescent prints
- infrared fluorescent features
- hidden, invisible barcode
- scan app: data verification using mobile phones
- other, deeply hidden features to be detected by laboratory equipment

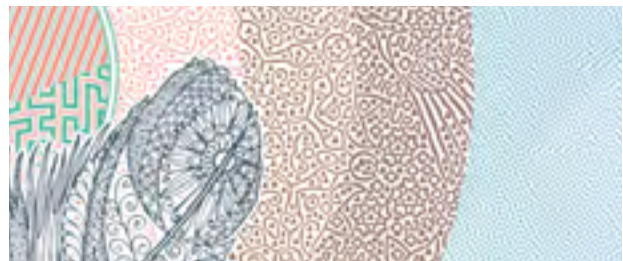
# ANY tax stamp specimens



## SECURITY GRAPHICS DESIGN



*Jura ICI™ in ambient light*



*artistic duotone screen*



*negative micro text*



*security graphics created with geometric elements having changing line thickness*



# Combined fluorescent prints

- exploiting the possibilities of excitation in different UV ranges (UV A, B and C) is not only highly secure but attractive prints can be placed on tax stamps
- these materials can be used within one ink, up to four fluorescent features can be applied in one offset ink (quadro fluorescence)

## JURA'S ICI™ FEATURE

This feature is providing hidden information in the screen structure of the existing design. The hidden information is invisible to the human eye and can be verified with a simple decoding device.



*Jura ICI™ under UV light*



## DOVID



*hot stamped, customer specific holographic stripe having high security features*

Tax stamp foils of HUECK FOLIEN have been applied on tax stamp samples of ANY Security Printing Company PLC. These high-quality tax stamp foils offer enhanced counterfeiting security, state-of-the art optical hologram technology and are easy to recognise. HUECK FOLIEN offers different designs and combinations of high security features for tax stamp foils.

ANY PLC is ready to purchase tax stamp foils of other suppliers as well in order to offer customised excise and tax stamps based on Customers' needs.



*in ambient light*



*fluorescence in UVA*



*fluorescence in UVB*



*fluorescence in UVC*

# Machine detectable features

## VerifIR – VERIFICATION PROCESS THROUGH IR FLUORESCENCE

There has always been a strong need to combine the simplicity of the application of a second level security device (e. g. a fluorescent offset ink) with the high security of a third (laboratory) level device. Our VerifIR system provides exactly this.

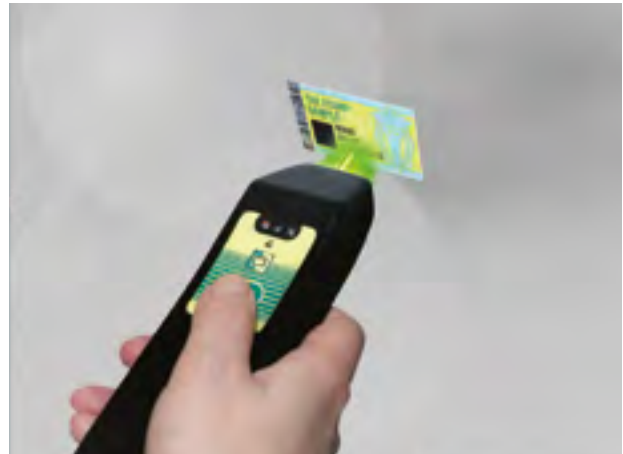
## VerifIR – INKS

The security ink contains a multiplicity of infrared fluorescent materials in strictly controlled amounts that provides a complicated emission spectrum.

The colour of the ink and the fluorescent spectrum can be tailored to the customer giving uniqueness to a certain product.

## VerifIR – DEVICE

The battery operated, very handy controller processes the emission spectrum of the print and compares the result to the data stored in its memory.



*VerifIR setting 1*



*VerifIR setting 2*

# Personalisation

In order to combine physical protection against counterfeiting with serialisation systems of tax stamps and for applying them in track&trace systems, tax stamps need to be personalised.

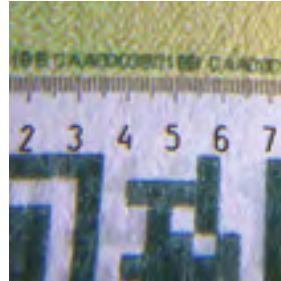
- unique serial numbering
- application of Data Matrix type barcode into which an individual serial number can be encrypted allowing more effective verification
- optionally, a special handheld reader can be used to detect a hidden barcode and transmit the data to a background system (appropriate legitimacy needed)
- laser micro writing around QR code, including the tax stamp's serial number



*in ambient light*



*invisible, IR absorbing barcode*

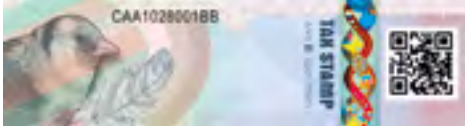


*laser micro writing*

# Track & trace solutions

## RADir+ MINI

Compared to traditional track&trace systems, added value of the scan app is that hidden information (e.g. barcode) printed with security IR ink can be verified.



**track&trace app**

Track&trace of products is easy. All required information (geolocation data, verifying person, date and time etc.) can be uploaded into a central system, where data can be evaluated. Compared to traditional track&trace systems, added value of the scan app is that hidden information (e.g. barcode) printed with security IR ink can be verified. The hidden information cannot be photocopied or modified.





## DOCUMENT SECURITY REFERENCES

### REFERENCES

- Hungarian biometric passports' personalisation
- Hungarian electronic identity cards
- Albanian, Icelandic and Hungarian driving licences
- Hungarian vehicle registration cards
- EU Residence Permits
- European health insurance cards
- Hungarian excise and tax stamps
- Vouchers for Sodexo Group

### DOMESTIC AND INTERNATIONAL CERTIFICATES

- certified bidder and securities producer of Hungary
- authorized 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 license 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)
- 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 delivery



Hungarian biometric passports' personalisation



Hungarian personal identification cards



Albanian driving licence



Hungarian excise and tax stamps



Vouchers for Sodexo Group

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