

Technical specifications

[This table shall be filled in by *the tenderer* in columns 2, 3, 4, 6, 7, and by the contracting authority - in columns 1, 5]

Annex no. 22
To the Standard Documentation
approved by the Order of the Minister of Finance
no. 115 as of 15.09.2021

Procurement procedure number: The information can be found in SIA RSAP.		Purpose of the purchase: Specialized software product for the graphical security of the portrait image by applying the holder's personal data (IPI/Letter Screen) for the period 2026–2030				
Name of goods/ services	Name of the model of goods/ services	Country of origin	Manufacturer	Full technical specification required by the contracting authority	Full technical specification proposed by the tenderer	Reference standards
1	2	3	4	5	6	7
1) Specialized software product for the graphical security of the portrait image by applying the holder's personal data (IPI/Letter Screen) for the period 2026–2030	LetterScreen and IPI generation Software Licence for the Moldovan ePassport and Support Visit for	EU	Jura JSP GmbH	According to technical requirements set out in the Annex to the Procurement notice	IPI: Hidden Image against photo-replacement: An ICAO 9303 recommended solution based on a proprietary process to hide individual secondary information into the applicants' laser engraved portrait image, in such a way that each individual photograph is unique and hides his/her own individual data (like name, serial number of document). The letter height can be in the range:	See our Reference List

		<p>2,9 mm +/- 0,5 mm</p> <p>The portrait is engraved as a unified image, where the primary image is visible to the naked eye.</p> <p>The secondary information contains machine-readable data, verifiable with high-resolution (600 DPI+) document reader.</p>	

If there is a special decoding lens inserted to the portrait, the hidden information can be read via this optical device as well.

The letter height: 2,9 mm +/- 0,5 mm

IPI must be integrate one or more of the following data elements into the portrait photo:

- o Last name
- o First name
- o Document no.

The data embedded through IPI technologies is resistant to forgery, manipulation, or unauthorized duplication.

The software ensures that each personalization is unique and directly linked to the passport holder's personal data.

	<p>Access to the software is permitted exclusively to authorized users through the implementation of role-based access control</p> <p>The application is software-based only, and supports all ICAO-recommended printing and personalization technologies with at least 600 dpi printing resolution, including the Mühlbauer IDENTIFIER 60 NOVUS</p>
<p><u>LetterScreen</u></p> <p>An ICAO 9303 recommended solution based on a patented process to print by inkjet a high-security secondary (ghost) image by UV ink on the first paper-page.</p> <p>Each portrait is composed of micro-text lines. The text repeats the variable personal and document data. The line-width of each and every font is modified as per the photo (face). The text lines are arranged along a personalized wave-structure, which is unique in every document.</p>	

	<p>This secondary portrait can be verified automatically:</p> <p>The verification software in the electronic document reader</p> <ol style="list-style-type: none"> (1) re-generates the wave structure (2) scans by portrait (3) and compares the two wave structures.
	<p>This secondary/ghost portrait satisfies the demand for L-2 and L-3 document authentication.</p> <p>Level 2: The redundant micro-text can be read by naked eye or with a magnifier under UV light, and be compared to the printed personal data.</p> <p>Level 2: The portrait can be verified with electronic passport readers automatically.</p> <p>Level 3: The portrait may contain certain special marks or "deliberate mistakes" for forensic check.</p> <p>LetterScreen can integrate one or more of the following data elements into the portrait photo:</p> <ul style="list-style-type: none"> o Last name o First name o Date of birth o Sex o Document number

	<input type="checkbox"/> Document expiry date <p>The letter height size can be in the range of: minimum 0,4 mm – maximum 1,6 mm.</p>
	<p>The data embedded through LetterScreen technologies is resistant to forgery, manipulation, or unauthorized duplication.</p> <p>The software ensures that each personalization is unique and directly linked to the passport holder's personal data.</p> <p>Access to the software is permitted exclusively to authorized users through the implementation of role-based access control</p>

Signed:  Name, Surname: Kathrin Roth As: Managing Director

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Date: 10. December 2025



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