

**Annex to the Procurement Notice**

**TECHNICAL REQUIREMENTS**

<b>1.1</b>	<b>Portable biometric data collection equipment</b> intended for biometric data enrollment in identity management in the process of documenting citizens, the process that is assisted and performed within the mobile offices by the Contracting Authority officers(not to be confused with the self-service kiosk used at the Border crossing posts), and biometric data collection with the ability to capture high-quality facial images, fingerprints and signature, enabling the issuance of identity electronic documents in accordance with relevant international regulations such as ICAO Doc 9303	
	<b>Equipment and accessories – Non-refurbished, produced after 01.01.2024.</b> <b>All requirements are minimum and mandatory;</b> <b>All components must be current and not advertised as EOS (End of Support) / EOL (End of Life)</b>	
<b>a)</b>	<b>Included peripherals</b>	- Face Capturer, - Fingerprint readers - min. 2 x single fingerprint scanners - Signature Capturer.
<b>b)</b>	<b>Face Image Capturing and Processing</b>	
*	Resolution	Min. 13 MP with full ICAO/ISO quality assessment.
*	Distance range	adjustable according to standard biometric image capture requirements
*	Height adjustment	adjustable
*	Illumination	optimized LED for non-flash illumination
*		Integrated lighting with dynamic ambient light intensity adjustment
*		Light colour: according to ISO/IEC 19794-5:2011
<b>c)</b>	<b>Biometric algorithms</b>	min. Face detection, quality analysis and capturing algorithms
<b>d)</b>	<b>User display</b>	
*	Screen size	min. 7"(inch)
*	Touchscreen	Multi-touch capable screen
<b>e)</b>	<b>Fingerprint readers</b>	
*	Configuration	Min. 2 x single fingerprint scanners
*	Resolution	high-quality optical sensor meeting ISO/IEC standards
*	Quality standards	EU/BMS, CE standards ICAO 9303 ISO/IEC 19794-4 & 39794-4 (Finger image data) ISO/IEC 19794-5 & 39794-5 (Facial image data)
<b>f)</b>	<b>Signature pad</b>	
*	Display type	LCD color with encryption
*	Pressure sensitivity	1024 levels
*	Native resolution	optimized for accurate signature capture
*	Active area size	min. 5" (inch)
*	Pressure levels	min. 1024 (non-interpolated)
<b>g)</b>	<b>Electrical characteristics</b>	
*	Power supply	compatible with 110V–230V
*	Data interface	Ethernet 10/100/1000 Mbps, USB3
*	Compliance	CE, RoHS
<b>h)</b>	<b>Physical characteristics and operating conditions</b>	

*		Designed to be portable
*	Mobility	Designed as carrying suitcase
		Dimensions: max. 500x500x200 mm
*	Nett Weight	max. 15 Kg
*	Interfaces for external devices	min. 1 x HDMI
*		min. 1 x USB
*		1 x RJ45 Ethernet
*	Installation mode	Portable installations
i)	<b>Hardware requirements for integrated operating software</b>	CPU / RAM / Storage in accordance with minimum requirements from the manufacturer in order to assure smooth and agile performance.
<b>Integrated operating software functional requirements</b>		
a)	<b>Facial Image Capture</b>	<p>Integrated software with automated quality control, verifying compliance with ICAO standards based on min.:</p> <ul style="list-style-type: none"> <li>• eye detection;</li> <li>• closed-eye check;</li> <li>• face brightness, clarity, and size;</li> <li>• head positioning;</li> <li>• background stability</li> </ul>
b)	<b>Fingerprint capturing</b>	Real-time quality check with NIST-compliant AF3S fingerprint identification through NFIS2.
c)	<b>Signature capturing</b>	- the weight of the signature line for both weak and strong pressure is fully configurable along with the signature retention and printing area in accordance with ICAO recommendations.
d)	<b>API System integration</b>	<p>Modular interface configuration system;  Web-services must be able to use several methods, as for example:</p> <ul style="list-style-type: none"> <li>- Adjusts actuator height to the desired position: Post /CameraActuator/Height;</li> <li>- Gets actuator current state: Get /CameraActuator/Height;</li> <li>- Starts a Face Capture or a Finger Capture: Post /FaceCapture/Capture AND Post /FingerCapture/Capture;</li> <li>- Get available capture types: Get /FaceCapture/CaptureTypes AND Get /FingerCapture/CaptureTypes;</li> <li>- Get default metrics performed on each capture: Get /FaceCapture/Metrics and Get /FingerCapture/Metrics;</li> <li>- Creates a NIST file: Post /Nist;</li> <li>- Error responses;</li> <li>- Bad request responses.</li> </ul>
<b>Support and maintenance requirements</b>		
<p>Support services at the Beneficiary's premises and/or remotely (as the case may be) for the adjustment and integration with the centralized software of the Contracting Authority via API, of the integrated operating system during the preparation period for equipment commissioning and training the staff according to the Beneficiary's requirements within a period of up to 30 calendar days after the delivery of the goods.</p> <p><b>Warranty period:</b> min. 36 months (after delivery and commissioning) with maintenance at the service</p>		

	center authorized by the manufacturer in the Republic of Moldova or in the EU. Resolution of warranty cases within a period of up to 45 calendar days.
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	All the costs of solving warranty cases are borne by the manufacturer or the authorized distributor.
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