

Technical Specification 4305DMH

Item	Specification
1.	DEVICE TYPE
	Device for forensic examination of questioned documents. The device is intended for advanced authenticity verification of passports, ID cards, travel documents, passport stamps, banknotes, driving licences, vehicle registration certificates and other vehicle related documents, signatures and handwriting fragments, paintings, revenue stamps and other security documents.
2.	GENERAL
	<ul style="list-style-type: none"> • Device size: $\leq 380 \times 260 \times 420$ • Weight: ≤ 11 kg • PC interface: USB 3.0 • Video output socket • Power supply: 12V DC (110/220V AC adapter), possibility to power from a car lighter socket. • Protection class: IP20 • Control elements on the front panel: buttons and status display • Travel case
3.	DOCUMENT SIZE SUPPORTED
	Up to 210 mm width (length) of unrestricted length (width)
4.	VIDEO CAMERA
	<ul style="list-style-type: none"> • USB, 4 Mp • Field of view: $\geq 200 \times 110$ mm • Resolution: $\geq (1920 \times 1080)$ • Optical zoom: $\geq \times 19$ • Digital zoom: $\geq \times 70$ on 24" monitor
5.	BUILT-IN RFID CHIP READER
	<p>Standards and chip types supported:</p> <ul style="list-style-type: none"> • ISO 14443 Type A and B, • ICAO LDS 1.7 • PKI 1.1 • Data exchange rate 106, 212, 424 and 828 Kbaud • Support asymmetrical communication speeds <p>Access modes and authentication modes:</p> <ul style="list-style-type: none"> • Basic Access Control (BAC) • Secure Messaging • Active Authentication (AA) • Passive Authentication (PA) • Terminal Authentication (TA) • Extended Access Control v 2.0 (EAC) <p>Reading data:</p> <ul style="list-style-type: none"> • Information content from DG1 up to DG15

	<ul style="list-style-type: none"> Extraction of a graphical information from a chip
6.	LIGHT SOURCES
	<p>Incident</p> <ul style="list-style-type: none"> UV 365 nm (LED) UV 313 nm (lamp, power 6 W) UV 254 nm (lamp, power 6 W) UV 400 nm (LED) IR 700 nm (LED) IR 870 nm (LED) IR 950 nm (LED) White Visible (LED) 450 nm (LED) 470 nm (LED) 505 nm (LED) 530 nm (LED) 590 nm (LED) <p>Transmitted:</p> <ul style="list-style-type: none"> UV 365 nm (LED) White Visible (LED, variable brightness) Infrared broadband (LED, variable brightness) <p>Oblique:</p> <ul style="list-style-type: none"> White Visible (LED, 2 sources from different sides) IR (LED, 2 sources from different sides) <p>Other:</p> <ul style="list-style-type: none"> External sport white (color temperature 5400K, intensity 250 Cd) Coaxial (LED) OVD examination (LED, ≥20 pcs.)
7.	OPTICAL FILTERS
	<ul style="list-style-type: none"> UV protected 420-1100 nm IR Low pass 700 nm IR High pass 700 nm IR High pass 650 nm IR High pass 600 nm UV-pass 200-400 nm
8.	SUPORTED OPERATION SYSTEMS
	<ul style="list-style-type: none"> Windows 11 32/64 bits Windows 10 32/64 bits Windows 8 32/64 bits
9.	FUNCTIONALITY AND FEATURES
	<ul style="list-style-type: none"> Machine readable zone (MRZ) OCR 1D barcode reading: Codabar, Code 128, Code 39 (+extended), Code 93, EAN-13, EAN-8, Interleaved 2 of 5 (ITF), STF (Industrial), Matrix 2 of 5, IATA 2 of 5 (Airline), UPC-A, UPC-E 2D barcode reading: PDF-417, QR Code, Aztec Verification of control sums in MRZ against Doc 9303 ICAO Invisible personal information visualization Saving scanned images in formats: BMP, JPEG, PCX, TGA, TIFF

	<ul style="list-style-type: none"> • Automatic selection of the correct viewing filter dependent on the excitation waveband used when highlighting luminescence • Auto focus, gain and iris control with manual over-ride • Including camera settings, light and filter values into result image • Possibility to create examination script • Remote device control throw software • Display real time video from camera • Display stored image from camera • Display stored image from disc file • Overlay (mixed) live and stored image for comparison • Strobe between two images (live/stored) for comparison • Image processing functionality for image sharpens, image soften, inversion • Shading correction filter, contrast stretch, image addition and image subtraction • Measurement functions including distance, angle and area measurements • Image rotation and mirroring • Export images into other applications (MS Word) • Import images from other applications (Information Reference System "FDS")
10.	CERTIFICATES AND STANDARDS
	<ul style="list-style-type: none"> • ISO 9001 • CE certificate
11.	ENVIRONMENT CONDITIONS
	<ul style="list-style-type: none"> • Temperature: +5°C to +40°C • Humidity: 35% to 80%
12.	WARRANTY AND AFTER SALES SERVICE
	<ul style="list-style-type: none"> • Warranty period - five (5) years from commissioning; • All warranty servicing expenses will be borne exclusively by the Supplier, including transportation of the equipment to and from the service center, if required.

Signed: 

Name, Surname: Maris Kaminskis

Position: Member of the Board

Tenderer: Regula Baltija LLC

Address: 34 Visku street, Daugavpils, LV-5410, Latvia

