EXIAS
MEDICAL

e1

ELECTROLYTE ANALYZER



25 sec

20 µL

oQC

EXIAS
MEDICAL

THE EXIAS e|1 ANALYZER MAKES IT POSSIBLE

Developed and produced in **Austria**, the **e|1 Analyzer** stands for quality and high standards.

The system uses an **all-in-one cartridge** that enables a **maintenance free** operation. Technical excellence and an innovative **thick-film sensor** technology lead to exceptional operational performance.

Robust and clever design with a compact footprint makes the **e|1 Analyzer** well suited for both the **point-of-care** and **laboratory** environment.

„EXIAS accomplish high quality standards. EXIAS is ISO 13485 certified“



THE e|1 ANALYZER SETS NEW STANDARDS

Na^+, K^+, Cl^- Ca^{2+}, pH, Hct

25 sec

Shortest time to result on the market

20 µl

Lowest sample volume on the market

oQC

Fully programmable automated 3 level on-board QC for 60 measurements per level

Maintenance free

All-in-one cartridge

Ease of use

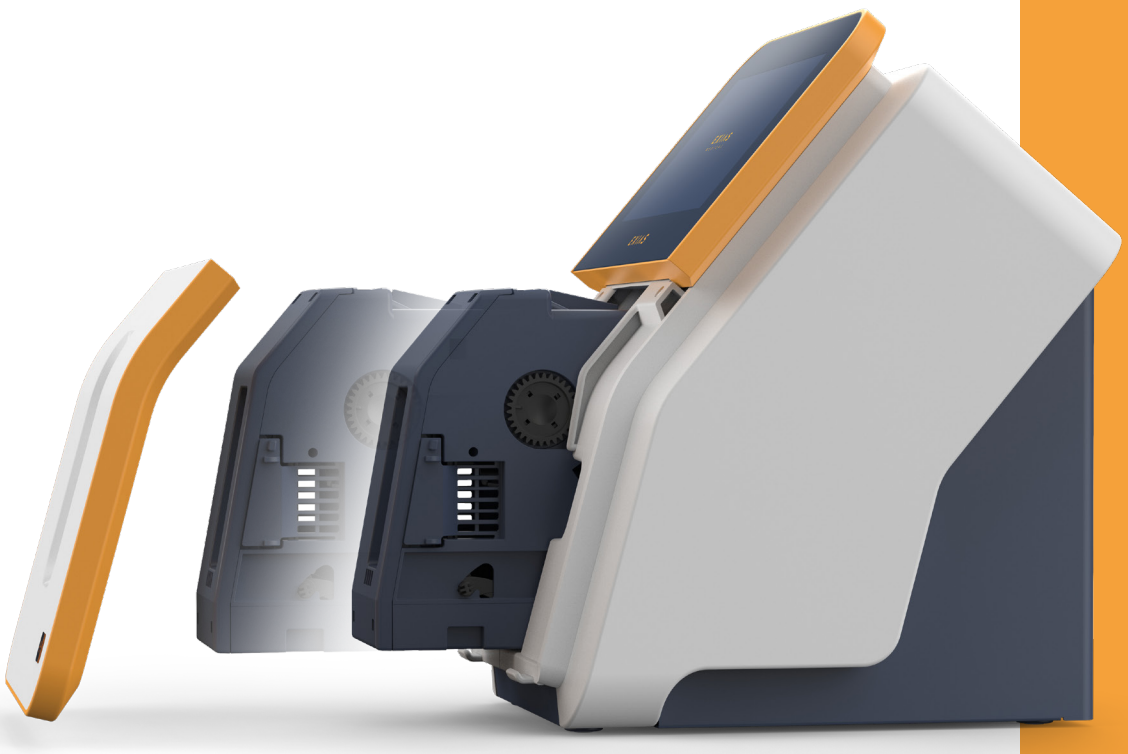
Versatile sample input
Intuitive user interface

Full connectivity

Data exchange with LIS
Network connection via LAN (RJ45)
Data export via USB flash drive

Robust and clever design

Compact footprint
Dimensions 20 x 32 x 27 cm (W x H x D)



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MEASURED PARAMETERS

Parameter	Sample Type	Range	CV in %*
Na+	B/S/P/Q	85 – 200 mmol/l	0.18
K+	B/S/P/Q	1.0 – 15.0 mmol/l	0.46
Cl-	B/S/P/Q	60 – 150 mmol/l	0.43
iCa2+	B/S/P/Q	0.1 – 3.2 mmol/l	0.80
Hct	B	10 – 75 %	1.64
pH	B/S/P/Q	6.5 – 8.0	0.04

*Repeatability (within-run precision)

Legend
B Whole blood
S Serum
P Plasma
Q Aqueous solution



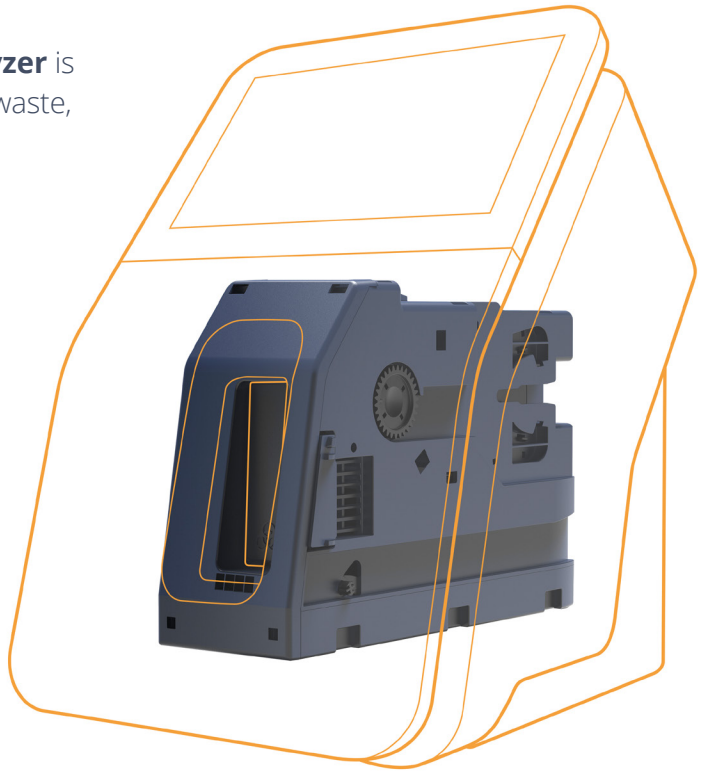
ALL-IN-ONE CARTRIDGE

Due to the sophisticated all-in-one cartridge, the **e|1 Analyzer** is completely maintenance free. All sensors, all solutions and waste, as well as all wear and tear parts are integrated into the **e|1 Cartridge**.

The versatile sample input allows testing with sample tubes, capillaries and syringes **without further adapters**.

Smart clot detection, automatic declotting and self-diagnostic system checks ensure **highest on-board stability**.
Combined with the **on-board QC (oQC)** option the **e|1 Cartridge** sets high standards for quality and accurate testing.

Three cartridge sizes (150, 300 or 600 samples) meet the individual needs of all EXIAS operators.





Capillary mode



Syringe mode



Sample tube mode

ACCESSORIES

e|1 QC MATERIAL

Beside the on-board QC option, EXIAS provides manual QC ampoules that improve operator's quality procedures in the daily point-of-care and laboratory environment.

To ensure reliable patient results, **three levels** of QC ampoules are available.
All ampoules are equipped with **barcodes** for an easy data setup via scanner.





"EXIAS ensures accurate and precise patient sample results"



CAPILLARY TUBES

The **heparinized** single-use capillary with a container volume of **50 µL** is optimized for the small sample volume of the **e|1 Analyzer**.

In order to guarantee maximum security for operators, the capillaries are made of **break-proof plastic**, and are hygienically packed in a dispenser with a user-friendly donator function.

TECHNICAL SPECIFICATIONS

OPERATIONAL CHARACTERISTICS

Parameters	Na^+, K^+, Ca^{2+}, Cl^-, pH, Hct
Calculated parameters	nCa, tHb
Min. sample volume	20 µL
Sample type	whole blood, serum, plasma
Sample container	sample tubes, syringes, capillaries (no adapter required)
Time to result	25 sec
Throughput	80 samples / hour
Wet-up time	30 min (new cartridge installation)

ALL-IN-ONE CARTRIDGE

Number of samples	150, 300, 600
On-board stability	28 days
Integrated on-board QC (oQC)	3 levels
oQC measurements / Level	60
On-board stability	28 days
Storage temperature	+2 °C to +25 °C
Shelf life	6 months

CALIBRATION DATA

Calibration	Automatic 2-point cal
Duration	~35 sec
Interval	4, 8, 12 hrs (configurable)

STORAGE CAPACITY

Patient results	500.000 samples
QC & Calibration data	min. 24 months
Operator ID	100

INTERFACE

Touch Display	7“ TFT
Resolution	800 x 480 pix
Ethernet	RJ45
USB flash drive	2 USB ports (2.0)
Barcode reader	optional
WiFi dongle	optional

COMMUNICATION

Data exchange	LIS (bidirectional)
Protocol	ASTM (LIS2-A2)
Remote access	VPN, VNC

ADDITIONAL INFORMATION

Printer	Built-in 2“ thermal printer (easy load)
Dimensions (W x H x D)	20 x 32 x 27 cm
Instrument weight	4.00 kg
In-use weight	4.74 kg

POWER REQUIREMENTS

Voltage	90 – 264 V
Power	mean 15 W; max. 60 W
Frequency	47 – 63 Hz

ENVIRONMENTAL REQUIREMENTS

Temperature	+15 °C to +32 °C
Humidity	15 % to 90 %
Barometric pressure	462 mmHg to 769 mmHg



EXCELLENCE IN ANALYTICAL SYSTEMS

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