

OPTI LION Specifications

Measured Parameters	Range	Resolution
Na ⁺	100 - 190 mmol/L	0.1 mmol/L
K ⁺	1.0 - 9.5 mmol/L	0.01 mmol/L
Cl ⁻	65 - 145 mmol/L	0.1 mmol/L
iCa	0.3 - 2.0 mmol/L	0.01 mmol/L
pH	6.8 - 8.0 pH units	0.001 pH units

Operating Parameters

Minimum Sample Size	125 µL
Sample Type	Whole Blood, Plasma or Serum
Sample Application	Syringe or Sample Collection Tube
Sample Input	Automatic Aspiration
Analysis Time (Time to Results)	< 120 seconds
Ambient Temperature	10°C - 32°C (50°F - 90°F)
Relative Humidity	5% - 95% (non-condensing)
Available Languages	English, Spanish, French, Italian, German, Japanese, Chinese

Calculated Parameters

Standard pH (st.pH)	Operator ID (11 Digits)
Hydrogen Ion Conc. (cH ⁺)	Patient ID (15 Digits)
St. Ionized Calcium (pH=7.4)(nCa ⁺⁺)	Accession Number (12 Digits)
Temperature Corrected pH (pH(t))	3 User Defined Fields (9 Digits)

Input Parameters

Patient Temperature
Date of Birth
Patient Sex

Database

Patient Data	200 Records
QC Data	70 Records per Level
SRC Data	105 Records per Level

Security

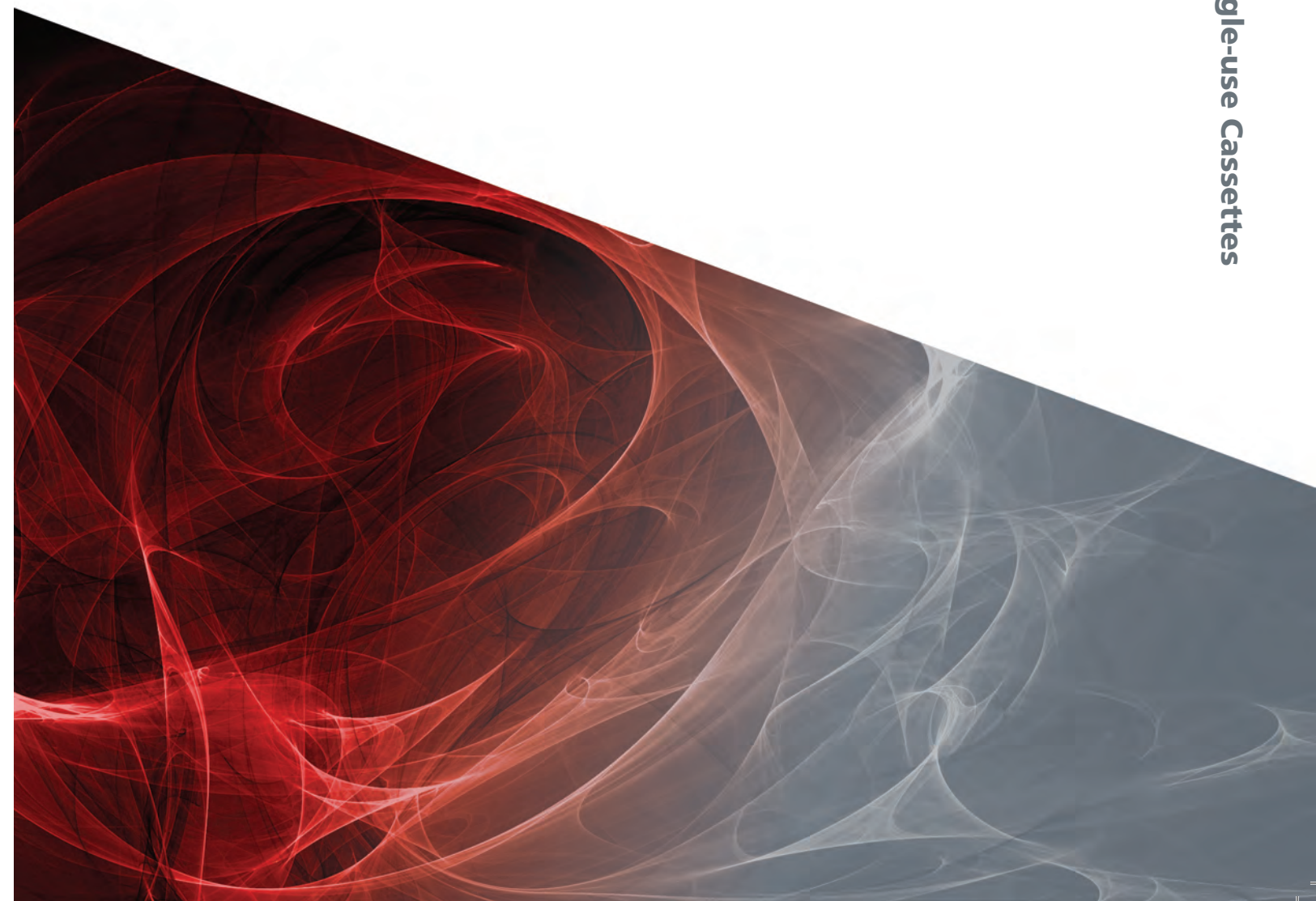
Password	Password Protected Analyzer Setup, Operation and Delete Functions
QC Lockout	User Definable QC Lockout Functions
Operator IDs	Storage for 200 Operator IDs (11 Digits) and Associated PIN (4 Digits)

Miscellaneous

Height x Width x Depth	124 x 362 x 230 mm (4.7 x 14.2 x 9.1 in)
Weight	3.6 kg (8 lbs)
Voltage / Frequency	120 or 240 AC /50 - 60 Hz
Power Consumption (max.)	110 VA
Interface	Ethernet, Serial (ASTM or ASCII)
Approvals	CE, UL, IVDD



OPTI[®] LION Electrolyte Analyzer with Single-use Cassettes



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Powerful, Flexible and Convenient...

▶ Lab quality results

The OPTI LION analyzer provides lab quality results with zero standby cost. The single-use consumable, stored at room temperature, is only used during a measurement and safely locks waste inside.

▶ No electrode maintenance

The OPTI LION analyzer does not use electrodes eliminating the need for electrode maintenance. In addition, the single-use cassette does not require a fluidics system, eliminating tubing maintenance.

▶ Reusable controls

The OPTI LION analyzer has reusable quality control cassettes to eliminate the cost associated with performing daily liquid quality control.

▶ Measured pH and ionized calcium

The OPTI LION measures pH and ionized calcium in the same single-use cartridge, providing a more complete picture of the patients status.

	E	E-Plus	E-TCO ₂ *
pH		X	X
Na ⁺	X	X	X
K ⁺	X	X	X
Cl ⁻	X	X	X
iCa		X	
tCO ₂			X

* In development

...In a Reagentless System

Only one consumable

Optical technology allows electrolyte measurements to be performed using only one consumable item. There are no electrodes, tubing kits or reagents to order and replace. The only item required for a measurement is the cassette.

Single-use cassettes

The OPTI LION uses single-use cassettes that are ideal for locations that perform a relatively low number of electrolyte tests, as well as those with a higher number of tests. The single-use technology allows the operator to use the analyzer only when it is needed without standby costs.

Extensive database

The OPTI LION analyzer is capable of storing large amounts of data compared to other electrolyte analyzers. The OPTI LION can store 200 patient samples, 200 operator ID's, 70 liquid quality control results per level and 105 reusable quality control measurements per level.

Room temperature storage

The OPTI LION cassettes are stored at room temperature. Room temperature storage eliminates lengthy equilibration times, allows for use in any environment and simplifies logistics.

Easy-to-use color touch screen interface

The OPTI analyzer uses a color touch screen that displays easy to follow picture-based instructions. This picture by picture sequencing allows for reduced training time and increased user efficiency.

