



# OPTIMedical

BLOOD GAS & ELECTROLYTE SYSTEMS

*See the Light*  
Technology Driven by  
Optical Fluorescence



**OPTI™ LION**  
Electrolyte Analyzer

# Reliability. Simplicity. Efficiency.

## Reusable Controls

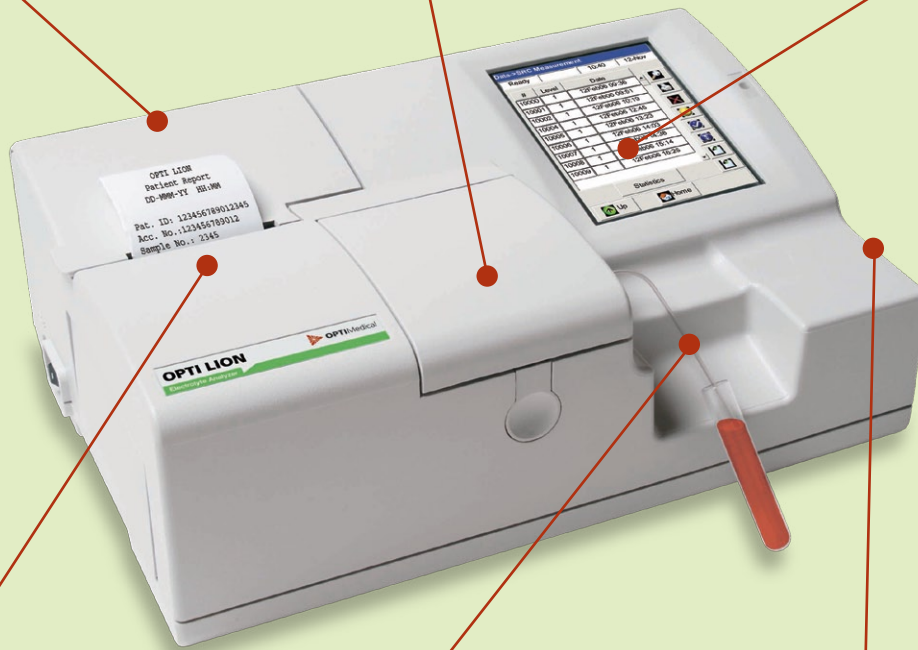
Reusable QC cassettes eliminate the cost and workload associated with daily liquid quality control.

## Single Use Cassettes

No standby costs; pay only for the test results you perform.

## Color Touch Screen

Intuitive icons, step by step prompts, reducing training requirements.



## Built-in Printer

Hard copy printout of patient test, QC and calibration results.

## Automatic Sample Aspiration

With bubble detection - reduces pre-analytic sample errors.

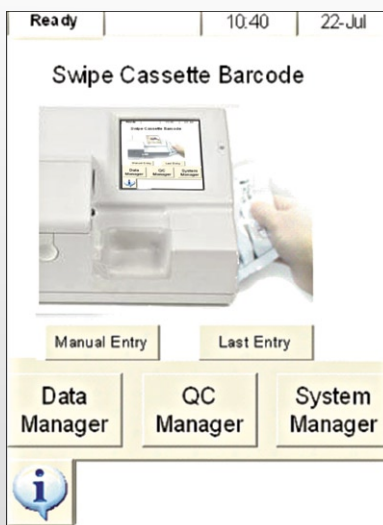
## Bar Code Scanner

Easily scan patient info, operator ID badges, and barcoded syringes.

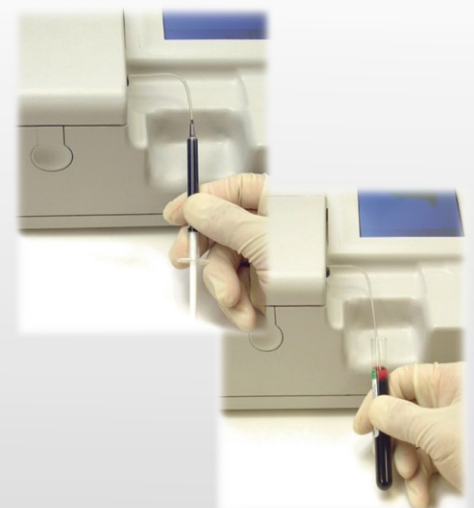
## Unique Cassette Design



## Intuitive User Interface



## How To Run A Patient Sample



# OPTI™ LION

## Electrolyte Analyzer

### Complete Electrolyte Panel In Minutes

The OPTI LION provides rapid, accurate results for five key analytes on a single disposable cassette. pH, Na+, K+, Cl-, and iCa. Perfect for quick results in the office or reference lab for those difficult patients.

### Cost Effective Solutions

Implement the OPTI LION and receive significant return due to exceptionally low cost per tests. There are no stand-by costs. No other reagents or consumables are necessary. See your profitability soar!

### Decrease Downtime And Increase Efficiency

OPTI Medical offers a unique, patented optical fluorescent technology that completely eliminates electrodes, minimizing maintenance. This will increase the productivity in your laboratory and significantly reduce your operational cost.

### Quality Compliance Made Easy

Audit trails are effortlessly accounted for with the OPTI LION's QC lockout capability and user defined passwords. Regulatory inspections are now worry free with our intuitive operation and reduced training requirements.

### Streamline Data Management

The OPTI LION has open connectivity through the RS232 Interface/Ethernet port at the rear of the instrument. It integrates easily with any HIS/LIS to seamlessly transfer and incorporate your lab data with other patient demographics.

## pH and iCa... ...Putting it Together

"Direct measure of iCa is indicated for assessing calcium status in trauma patients."

—Dickerson, RN, et al. *Parenteral Nutrition* 2004;28: 133-141

"In a study of 237 critically ill surgical patients, calcium homeostasis should be evaluated by iCa measurements rather than by corrected Ca."

—Bynes, MC, et al. *American Journal of Surgery* 2005; 189: 310-14

"Among 97 patients with malignant disorders, iCa indicated hypercalcemia in 38% of patients, versus only 11% for corrected calcium and 8.4% for total calcium."

—Ijaz, A., et al. *Journal College of Surgical Physicians-Pakistan* 2006; 16: 49-52

## CF Card Reader



You Deserve a Better Analyzer!

# See the Light

# OPTI™ LION

Electrolyte Analyzer with Optical Fluorescence Technology

To learn more, contact OPTI Medical today at **800.490.6784**  
or visit our website at: [www.optimedical.com](http://www.optimedical.com)

## 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 µ L  
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

	INPUT PARAMETERS	DATABASE
Standard pH (st.pH)	Operator ID (11 Digits)	200 Records
Hydrogen Ion Conc. (cH+)	Patient ID (15 Digits)	70 Records per Level
St. Ionized Calcium (pH=7.4)(nCa++)	Accession Number (12 Digits)	105 Records per Level
Temperature Corrected pH (pH(t))	3 User Defined Fields (9 Digits)	
	Patient Temperature	
	Date of Birth	
	Patient Sex	

## 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

Size 124 H x 362 W x 230 D mm (4.7 H x 14.2 W x 14 D 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



## OPTIMedical

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