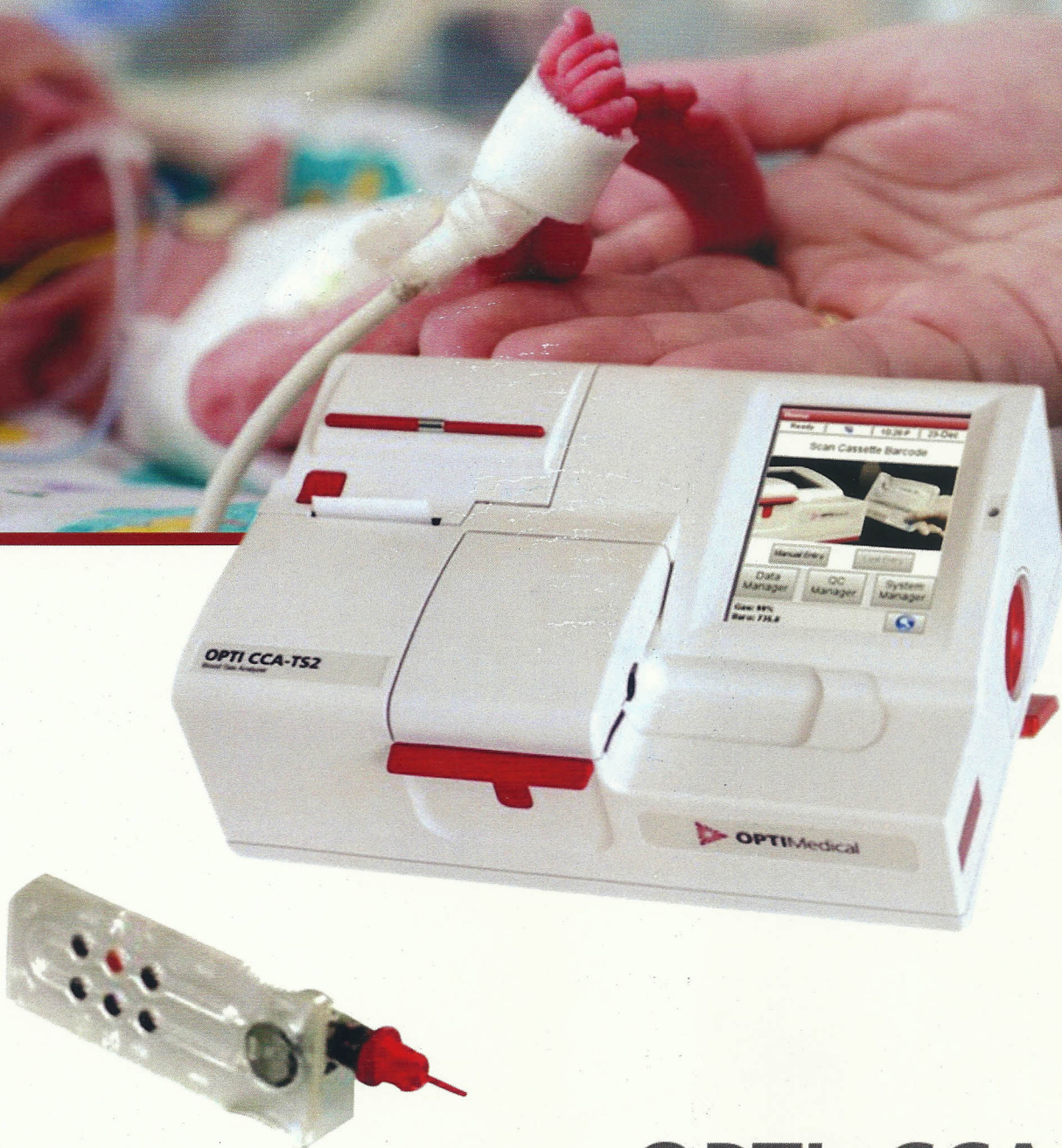




**OPTIMedical**  
BLOOD GAS & ELECTROLYTE SYSTEMS

*See the Light*  
Technology Driven by  
Optical Fluorescence



**OPTI CCA-TS2**  
Portable Blood Gas Analyzer  
Simple • Accurate • Reliable

# OPTI® CCA-TS2

## Upgradable, Portable Blood Gas & Electrolyte Analyzer with Optical Fluorescence Technology

### Electrolyte Analysis (Separately)

The OPTI CCA-TS2 utilizing the latest Optical Fluorescence Technology. This unique patented technology does not use electrodes or contact points, which eliminates the need for costly electrode maintenance.

### Accurate Results

Reduce pre-analytical errors with Automatic Sample Aspiration, bubble and clot detection and step by step picture instructions on the High resolution large colorful touch screen.

### Significant Cost Savings

The OPTI CCA-TS2 analyzer provides lab quality results with zero standby cost. The single use consumable. Stored at room temperature, is only used during a measurement and safety locks waste inside.

### Simplyfy Compliance

Compliance and audit trails are made easy with QC Lockouts, maintenance log and multiple levels security. Save time and reduce errors by using the built in barcode scanner to quicker enter user ID and Patient Ids.

### Electrolyte Analysis (Separately)

Only electrolyte parameters (Na+, K+, Ca++ & Cl-) can be also performed separately with pH & calculated parameters

### MEASURED PARAMETERS

MEASURED PARAMETERS	RANGE	RESOLUTION
pH	6.6 - 7.8 pH units	0.001 pH units
pCO2	10 - 200 mmHg	0.1 mmHg
pO2	10 - 700 mmHg	0.1 mmHg
tHb	5 - 25 g/dL	0.1 g/dL
sO2	60% - 100%	0.1%
Na+	100 - 180 mmol/L	0.1 mmol/L
K+	0.8 - 10 mmol/L	0.01 mmol/L
Ca++	0.2 - 3.00 mmol/L	0.1mmol/L
Cl-	50 - 160 mmol/L	0.1 mmol/L
Glucose	1.7 - 22.2 mmol/L (30 - 400 mg/dL)	0.1 mmol/L (0.1mg/dL)
Lactate	0.3 - 17.5 mmol/L (2.7 - 157.7 mg/dL)	0.01 mmol/L (0.1mg/dL)
BUN (Urea)	2.8 - 112.0 mg/dL (1 - 40 mmol/L)	0.1mg/dL (0.01 mmol/L)
Baromterc Pressure	300 - 800 mmHg	0.1 mmHg

### CALCULATED PARAMETERS

Actual Bicarbonate (HCO3)  
 Standard Bicarbonate (st.HCO3)  
 Base Excess (BE)  
 Base Excess Extra Cellular Fluid (BEecf)  
 Base Excess Actual (BEact)  
 Buffer Base (BB)  
 Standard pH (st.ph)  
 Hydrogen Ion (H+)  
 Total CO2 (tCO2)  
 Oxygen Saturation (sO2)  
 Oxygen Content (O2ct)  
 Alveolar-arterial O2 Conc. (AaDO2)  
 p50  
 st. Ionized Calcium (Ph=7.4)(Ca++)  
 Hematocrit (Hct)  
 Anion Gap

### INPUT PARAMETERS

Operator ID  
 Patient ID  
 Accession Number  
 Date of Birth  
 Sex  
 Temperature  
 Medical Record Number  
 Account Number  
 Test ID  
 Patient Name  
 Age  
 Attending Physician  
 Patient Location  
 Sample Collectin Time  
 Sample Type  
 Puncture Site  
 Allen's Test  
 tHb Type  
 Bypass  
 O2 Mode  
 Vent Mode  
 Pplat  
 Mvol  
 PIP  
 Litre Flow  
 Tvol  
 PS  
 PEEP  
 Rate  
 CPAP  
 FIO2  
 MCHC  
 RQ  
 P50  
 Bilevel Pressure  
 VE Ratio  
 Common Field

### Wide Operating Temperature

The OPTI CCA-TS2 analyzer has a measuring chamber heated to 37°C. This allows for a wide operating temperature to meet the needs of colder environments such as the operating room.

### Comprehensive Test Menu

To help meet exact testing needs, the OPTI CCA-TS2 has a variety of cassette configuration available. Each cassette comes individually wrapped in cartons of 25 tests, reducing the potential for consumable waste.

### Advance Communication

The OPTI CCA-TS2 analyzer now features a standard POCT 1 interface for bio-direction communication and can be interfaced to any LIS/HIS using the Ethernet

### Rechargeable Battery, Thermal Printer & Cassette Shelf Life

Longer Lasting Rechargeable Battery Backup of upto 8 hours. Allows blood gas testing when electric service is not available. Also it has built in Fast Load Thermal Printer and Long Cassette Shelf Life having 6 - 12 months from the date of manufacture.

### Quality Control

OPTI provides tri levels Liquid Quality Controls and Electronic QC as well to check the performance of the analyzer on regular and as and when required basis.

### OPERATING PARAMETERS

Minimum Sample Size: 125 µL, 60 µL for B-60 Cassette  
 Sample Type: Whole Blood, Plasma or Serum  
 Sample Application: Syringe, Capillary or Comfort Samplers  
 Sample Input: Automatic Aspiration  
 Relative Humidity: 5% - 95% (Non-Condensing)  
 Available Language: English & 10 others  
 Analysis Time (Time to Result): <120 Seconds  
 Ambient Temperature: 10° C - 30° C (50° F - 86° F)

### DATA BASE

Patient Data : 500 Records  
 QC Date: 70 Records per Level  
 SRC Data: 105 Records per Level

### SECURITY

Storage for 300 Operator IDs (11 Digits) & Passwords  
 Associated PIN (4 Digits)  
 Password Protected Analyzer Setup  
 Operation and Delete Functions  
 User Definable QC Lockout Functions.

### MISCELLANEOUS

Power Consumption (Max): 110 VA  
 Interface: ASTM, ASCII and POCT1 protocols (Ethernet and USB Serial)  
 Ports: USB Type A  
 Approvals CE, UL, IVDD, FDA 510K cleared  
 SIZE: 4.7 H x 14.2 W x 9.1 D in (12.0 x 36.2 x 23.0 cm)  
 Weight: 4.3Kg (9.6lbs) with rechargeable Battery Pack  
 Voltage / Frequency: 120 or 240 AC / 50-60 Hz



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