



**OPTI**Medical

**OPTI<sup>®</sup> CCA-TS** Blood Gas Analyzer with Single-use Cassettes



# Powerful, Flexible and Convenient...

## ▶ Significant cost savings

The OPTI CCA-TS 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.

## ▶ Intuitive graphic software

The easy-to-use software provides security in the form of QC lockouts while reducing training time through intuitive graphics. The software also allows the convenience of data export by RS232, Ethernet and compact flash memory cards.

## ▶ Wide operating temperature

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

## ▶ Comprehensive test menu

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

	B	E	E-Cl	E-Ca	E-Glu	E-BUN
pH	X	X	X	X	X	X
PCO <sub>2</sub>	X	X	X	X	X	X
PO <sub>2</sub>	X	X	X	X	X	X
tHb	X	X	X	X	X	X
SO <sub>2</sub>	X	X	X	X	X	X
Na <sup>+</sup>		X	X	X	X	X
K <sup>+</sup>		X	X	X	X	X
Cl <sup>-</sup>			X			
iCa				X		
Glu					X	
BUN (Urea)						X



# In a Small Portable Package



## Automatic sample aspiration

With automatic sample aspiration the technique of the operator will not influence the patient's result. Automatic aspiration also eliminates the occurrence of under filling or over filling errors.



## Measured tHb and $SO_2$

The OPTI analyzer is the only single-use portable blood gas analyzer that directly measures total hemoglobin and oxygen saturation. Measured total hemoglobin does not have interference from plasma expanders that are commonly used during bypass procedures.



## Precision calibration gas

The OPTI analyzer uses a precision calibration gas canister to perform the oxygen and carbon dioxide calibrations. This ensures an exact calibration point, free from the outgassing effects of pouched calibrants.



## 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.



## Point-of-care testing

The OPTI analyzer is a portable device that utilizes a rechargeable battery. The rechargeable battery allows for stat testing in any location, including, ambulances, helicopters and bedside testing.

# OPTI CCA-TS Specifications

Measured Parameters	Range	Resolution
pH	6.6 - 7.8 pH units	0.001 pH units
PCO <sub>2</sub>	10 - 200 mmHg	0.1 mmHg
PO <sub>2</sub>	10 - 700 mmHg	0.1 mmHg
tHb	5 - 25 g/dL	0.1 g/dL
SO <sub>2</sub>	60 % - 100 %	0.1 %
Na <sup>+</sup>	100 - 180 mmol/L	0.1 mmol/L
K <sup>+</sup>	0.8 - 10 mmol/L	0.01 mmol/L
iCa	0.2 - 3.0 mmol/L	0.01 mmol/L
Cl <sup>-</sup>	50 - 160 mmol/L	0.1 mmol/L
Glucose	1.7 - 22.2 mmol/L (30 - 400mg/dL)	0.1 mmol/L (0.1 mg/dL)
BUN (Urea)	2.8 - 112.0 mg/dL (1 - 40 mmol/L)	0.1 mg/dL (0.01 mmol/L)
Barometric Pressure	300 - 800 mmHg	0.1 mmHg
Operating Parameters		
Minimum Sample Size	125 µL	
Sample Type	Whole Blood, Plasma, or Serum	
Sample Application	Syringe, Capillary or ComfortSampler	
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	
Actual Bicarbonate (HCO <sub>3</sub> )	Operator ID (11 Digits)	Vent Mode
Standard Bicarbonate (st.HCO <sub>3</sub> )	Patient ID (15 Digits)	TVol
Base Excess (BE)	Accession Number (12 Digits)	MVVol
Base Excess Extra Cellular Fluid (BEecf)	3 User Defined Fields (9 Digits)	PIP
Base Excess Actual (BEact)	Patient Temperature	Pplat
Buffer Base (BB)	Date of Birth	PS
Standard pH (st.pH)	Patient Sex	PEEP
Hydrogen Ion Conc.(cH <sup>+</sup> )	Hemoglobin Type	CPAP
Total CO <sub>2</sub> (tCO <sub>2</sub> )	Puncture Site	Rate
Oxygen Saturation (SO <sub>2</sub> )	Bypass, Sample Type	Flow Rate
Oxygen Content (O <sub>2</sub> ct)	Total Hemoglobin	I/E ratio
Alveolar-arterial O <sub>2</sub> Conc. (AaDO <sub>2</sub> )	MCHC	Bi Level Pressure
P50	O <sub>2</sub> Mode	RQ
St. Ionized Calcium (pH=7.4)(nCa <sup>++</sup> )	FIO <sub>2</sub>	
Hematocrit (Hct)	P50	
Security		
Password	Password Protected Analyzer Setup, Operation and Delete Functions	
QC Lockout	User Definable QC Lockout Functions	
Operator IDs	Storage for 300 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	5.5 kg (12 lbs) with rechargeable Battery Pack	
Voltage / Frequency	120 or 240 AC / 50 - 60 Hz	
Power Consumption (Max.)	110 VA	
Interface	Ethernet, Serial (ASTM or ASCII)	
Approvals	CE, UL, IVDD	

