



OPTIMedical
BLOOD GAS & ELECTROLYTE SYSTEMS

See the Light
Technology Driven by
Optical Fluorescence



OPTI™ CCA-TS
Portable Blood Gas Analyzer

Improving efficiency through reliability.

RS232/Ethernet/Compact Flash Port (rear)

Allows for simple upload of data to a compact flash card, transfer of data to a data manager, and easy software upgrades.

Color Touch Screen

Intuitive icons and step by step prompts reduce training requirements.



Heated Measuring Chamber

Allows use in cooled operating room and use of chilled samples.

Automatic Sample Aspiration

Bubble detection reduces pre-analytic sample errors.

Bar Code Scanner

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

Spend more time on patient care



Compact and portable



Great for cardiac surgery



OPTI™ CCA-TS

Portable Blood Gas Analyzer

Spend less time on maintenance

Increase the productivity in your department and significantly reduce your operational cost. The OPTI CCA-TS analyzer uses a unique, patented optical fluorescent technology that minimizes maintenance. The OPTI CCA-TS analyzer requires no daily maintenance and has no tubing, electrodes, or reagents to replace.

Accurate results

Reduce pre-analytical errors with automatic sample aspiration, bubble and clot detection, and step by step picture instructions on the color touch screen.

Cost effective solution

The OPTI CCA-TS has low fixed operating costs due to its single-use, disposable test cassette. With no standby costs, the OPTI only uses consumables when running a test. The OPTI CCA-TS uses electronic QC cutting down the need for liquid QC.

Simplify compliance

Compliance and audit trails are made easy with user definable QC lockout, password protection, and a maintenance log. Create Levey-Jennings charts and quickly review QC data with the optional Prism POC data manager. You can compare your QC results to the results of your peers using the online Quality Assurance Program (QAP).

Unique measurements

The OPTI CCA-TS analyzer's test configurations are built on an evidence-based approach to critical care needs and include measured tHb, SO₂, iCa, glucose, and lactate*. The OPTI analyzer is the only single-use portable blood gas analyzer that measures tHb and SO₂. Measured total hemoglobin does not have interference from plasma expanders commonly used during bypass procedures. The OPTI CCA-TS has two new cassette styles - the B-Lac* cassette for rapid lactate results at the point of care, and the B-60 cassette for blood gas testing requiring only 60µL of blood.

What our customers have to say...

"Best instrument in my 35 years of respiratory care. User friendly, easy maintenance, CLIA friendly, never failed proficiency on instrument purchased in 2003. Great QAP program and great service."

—Dale Dupre, Respiratory Therapy Director

"I've been a perfusionist for more than 30 years and my group has used and evaluated many POC devices for the CVOR. We have performed more than a hundred thousand tests with the OPTI, we find it's reliability second to none. It is a cassette device that is not affected by the cold operating room, the glucose measurements are very accurate, and we have never failed a CAP evaluation. I know I can count on it during open-heart surgery!"

—Vince Young, Perfusion Group President

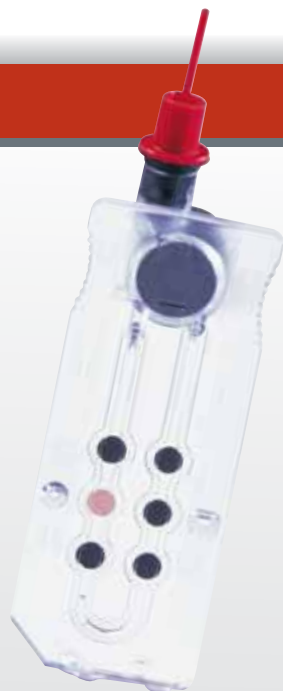
"Our OPTI blood gas instrument has performed extremely well for a number of years. It was fairly inexpensive, has been durable, and is very easy to use with consistently good performance. We have only scored 100% on every proficiency challenge since we bought the analyzer 9 years ago! Telephone customer service has also been excellent during that time."

—Carol Sparks, Lab Technical Director

Available test configurations

	B-60*	B	E	E-Cl	E-Ca	E-Glu	E-BUN	B-Lac*
pH	X	X	X	X	X	X	X	X
PCO ₂	X	X	X	X	X	X	X	X
PO ₂	X	X	X	X	X	X	X	X
tHb		X	X	X	X	X	X	X
SO ₂		X	X	X	X	X	X	X
Na ⁺			X	X	X	X	X	
K ⁺			X	X	X	X	X	
Cl ⁻				X				
Ca ⁺⁺					X			
Glucose						X		
BUN (Urea)							X	
Lactate								X

*In development



You Deserve a Better Analyzer!

See the Light

OPTI™ CCA-TS

Portable Blood Gas Analyzer with Optical Fluorescence Technology

To learn more, contact OPTI Medical today at **800.490.6784**
or visit our website at: www.optimedical.com

MEASURED PARAMETERS	RANGE	RESOLUTION	OPERATING PARAMETERS
pH	6.6 - 7.8 pH units	0.001 pH units	Minimum Sample Size: 125 µL; B60 cassette – 60 µL
PCO ₂	10 - 200 mmHg	0.1 mmHg	Sample Type: Whole Blood, Plasma, or Serum
PO ₂	10 - 700 mmHg	0.1 mmHg	Sample Application: Syringe, Capillary or ComfortSampler™
tHb	5 - 25 g/dL	0.1 g/dL	Sample Input: Automatic Aspiration
SO ₂	60% - 100%	0.1%	Analysis Time (Time to Results): < 120 Seconds
Na+	100 - 180 mmol/L	0.1 mmol/L	Ambient Temperature: 10° C - 32° C (50°F - 90°F)
K+	0.8 - 10 mmol/L	0.01 mmol/L	Relative Humidity: 5% - 95% (Non-Condensing)
iCa	0.2 - 3.0 mmol/L	0.01 mmol/L	Available Languages: English, Spanish, French, Italian, German, Japanese, Chinese, Polish, Portuguese
Cl-	50 - 160 mmol/L	0.1 mmol/L	
Glucose	1.7 - 22.2 mmol/L (30 - 400 mg/dL)	0.1 mmol/L (0.1 mg/dL)	
BUN (Urea)	2.8 - 112.0 mmol/L (1 - 40 mmol/L)	0.1 mmol/L (0.01 mg/dL)	
Lactate	0.3 - 17.5 mmol/L (2.7-157.7 mg/dL)	0.01 mmol/L (0.1 mg/dL)	
Barometric Pressure	300 - 800 mmHg	0.1 mmHg	
CALCULATED PARAMETERS	INPUT PARAMETERS		SECURITY
Actual Bicarbonate (HCO ₃)	Operator ID (11 Digits)	Vent Mode	Password: Password Protected Analyzer Setup, Operation and Delete Functions
Standard Bicarbonate (st.HCO ₃)	Patient ID (15 Digits)	TVol	QC Lockout: User Definable QC Lockout Functions
Base Excess (BE)	Accession Number (12 Digits)	MVol	Operator IDs: Storage for 300 Operator IDs (11 Digits) and Associated PIN (4 Digits)
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+)	Hemoglobin Type	CPAP	
Total CO ₂ (tCO ₂)	Puncture Site	Rate	
Oxygen Saturation (SO ₂)	Bypass, Sample Type	Flow Rate	
Oxygen Content (O ₂ ct)	Total Hemoglobin	I/E ratio	
Alveolar-arterial O ₂ Conc. (AaDO ₂)	MCHC	Bi Level Pressure	
P50	O ₂ Mode	RQ	
St. Ionized Calcium (pH=7.4)(nCa++)	FIO ₂		
Hematocrit (Hct)	P50		
			MISCELLANEOUS
			Size 124 H x 362 W x 230 D mm (4.7 H x 14.2 W x 9.1 D 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



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