

Specifications

Operating parameters	Cartridge	Instrument	Power requirements
 <p>Measuring range pH : 6.500 ~ 8.000 pCO₂ : 5.0 ~ 150.0 mmHg pO₂ : 5 ~ 700 mmHg cNa⁺ : 80 ~ 200 mmol/L cK⁺ : 1.0 ~ 20.0 mmol/L cCa²⁺ : 0.25 ~ 5.00 mmol/L cCl⁻ : 50 ~ 150 mmol/L Hct : 10 ~ 70 %</p> <p>Derived parameters pH(T), pCO₂(T), pO₂(T), ctCO₂, cHCO₃⁻, cHCO₃⁻(std), BE(ecf), BE(B), Anion gap(K), ctHb, Ca⁺⁺(7.4), pO₂(A-a)</p> <p>Sample type Heparinized whole blood</p> <p>Sample volume 80 µL</p> <p>Sample analysis time 50 seconds</p> <p>Calibration Automatic or manual</p>	 <p>Choices offering 100 tests / 2 weeks, 3 weeks 200 tests / 2 weeks, 3 weeks 300 tests / 2 weeks, 3 weeks</p> <p>Storage condition 15 ~ 25 °C</p> <p>Shelf life 6 months from manufacturing date</p> <p>Components</p> <ul style="list-style-type: none"> • Sensors • Cal 1, Cal 2 • Reference solution • Sampler & waste bag • Valve and tubing <p>Dimensions / Weight 182(W) x 148(H) x 100(D) mm 1.4 kg</p>	 <p>Computer 1.6 GHz processor 2 GB RAM 8 GB flash storage</p> <p>Operating system Windows® Embedded standard 7</p> <p>Display 8 inch TFT LCD Touch screen</p> <p>Printer 2 inch thermal printer(built-in)</p> <p>Dimensions / weight 257(W) x 394(H) x 252(D) mm 7.1 kg</p>	 <p>Voltage 100 ~ 240 VAC</p> <p>Frequency 50/60 Hz (±10%)</p> <p>Power adaptor AC-DC power supply (Output: DC24V,2.7A)</p> <p>Battery operation Max. 2 hours (Li ion cells)</p> <p>Interface</p> <ul style="list-style-type: none"> • Built-in barcode scanner • 4 USB ports • Serial (RS232) port • Ethernet (RJ45) port • VGA port (for external screen)



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i-Smart[®]300

BLOOD GAS ANALYZER



Beyond imagination,
 cutting-edge performance.
 i - Smart 300

- pH
- pCO₂
- pO₂
- Hct
- Na⁺
- K⁺
- Ca²⁺
- Cl⁻

i-Smart[®]300

BLOOD GAS ANALYZER

i-Smart 300 Blood Gas System delivers critical patient results quickly and simply, with minimal operator interaction.

Clinicians can implement patient therapy sooner than before as testing can be conducted any where.

i-Smart 300 portable analyzers meet the need for critical care testing in the laboratory, OR, ER, ICU and other hospital locations.



Intuitive-obvious touch screen display

Simple layout and condensed menu that is easy to understand allows for effortless operation.

Maintenance-free, multi-use and stand-alone disposable cartridge.

Cartridge* is a self contained "miniature" analyzer. When replaced, it is like having a brand-new machine every time. *A functioning analyzing unit that contains all necessary parts: reagents, sample probe, valves, tubing, and sensors.

Rechargeable internal battery with advanced technology

Operational for up to two hours with AC power disconnected.



Built-in printer

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

Built-in barcode scanner

Internal barcode scanner reads and enters test sample and operator ID automatically.

External input/output ports.

RS-232, RJ45 Ethernet, USB (4), and VGA for external monitor.

Built-in RFID module.

Allows operator-free entry of new cartridge information. Tags cartridges to prevent accidental reuse.

Colorful GUI Design



01 Maintenance Free

- Proven quality through the previous Electrolyte Analyzer.
- Disposable Cartridge contains all sensors, reagents, waste bag, tubing and sample probe.
- Replacing a cartridge is all you have to do for maintenance!

Available Cartridge Types

- 100 tests / 2 weeks
- 100 tests / 3 weeks
- 200 tests / 2 weeks
- 200 tests / 3 weeks
- 300 tests / 2 weeks
- 300 tests / 3 weeks

02 Reliable and Easy to Use

- Audio guided menu driven touch-screen operation.
- Self-cleaning sample probe helps to maintain sample integrity.
- Cutting-edge sensor technology helps to ensure superior quality of measurement.
- Self-contained reagent cartridge helps to minimize exposure to biohazards.

03 Fast and Flexible

- RFID allows automatic cartridge information loading.
- Fast patient results, measurement takes only 50 seconds.
- Fully automated calibration and system performance monitoring.
- Built-in bar-code scanner for entry of patient information, operator identification and QC data.

04 Simple Operation

- Requires small sample size, ideal for all patient types.
- Analyzes syringe and capillary samples without adapters.
- Small, portable and weighs less than 7.1 kg.

05 System Connectivity

- Onboard QC program calculates and stores data.
- Seamless integration with your LIS/HIS via standard ASTM interface protocol.