

Specifications

Operating Parameters

Reportable Range

pH : 6.500~7.800
 pCO₂ : 5.0~150.0 mmHg
 pO₂ : 10~680 mmHg
 Na⁺ : 80~200 mmol/L
 K⁺ : 0.1~20.0 mmol/L
 Ca²⁺ : 0.25~5.00 mmol/L
 Cl⁻ : 50~150 mmol/L
 Glu : 5~500 mg/dL
 Lac : 0.2~15.0 mmol/L
 Hct : 10~70%

Calculated Parameters

pH(T), pCO₂(T), pO₂(T), tCO₂,
 HCO₃⁻, HCO₃⁻(std), BE(ecf),
 BE(B), Anion gap(K), tHb, sO₂
 Ca²⁺(7.4), pO₂(A-a)

Sample Type

Heparinized whole blood

Sample Volume

100 μL

Sample Analysis Time

50 seconds

Cartridge

Test Panel Options

• **CarePak 106**
 pH, Na⁺, K⁺, Ca²⁺, Cl⁻, Hct

• **CarePak 108**
 pH, pCO₂, pO₂, Na⁺, K⁺, Ca²⁺,
 Cl⁻, Hct

• **CarePak 110**

pH, pCO₂, pO₂, Na⁺, K⁺, Ca²⁺,
 Cl⁻, Hct, Glu, Lac

Test Volume Options

50 tests / 2 or 3 weeks
 100 tests / 2 or 3 weeks
 200 tests / 2 or 3 weeks
 300 tests / 2 or 3 weeks



Storage Condition

15~25 °C

Components

- Micro-sensor card
- Cal1, Cal2, Cal3
- Reference solution
- Sampler & waste bag
- Valve and tubing
- EEPROM

Dimensions / Weight

182(W) x 148(H) x 100(D) mm
 1.7 kg

Instrument & Connectivity

Computer

1.1 GHz dual core processor
 SSD 32GB storage

Operating System

Microsoft® Windows® IoT10 Enterprise

Display

9 inch TFT LCD touch screen
 wide view angle

Printer

2 inch thermal printer (built-in)

Dimensions / Weight

269(W) x 391(H) x 255(D) mm
 8.4 kg (accessories excluded)

System Connectivity

Bidirectional LIS/HIS communication

Power Interface

Voltage

100~240 Va.c.

Frequency

50/60 Hz

Power Adaptor

Input: 100~240 Va.c., 1.5 A,
 50/60 Hz, Max. 1.5A
 Output: +24 Vd.c., Max. 2.7A

Battery Operation

Max. 2 hours

Interface

- 650nm Laser Diode scanner (built-in)
- 2 x USB 3.0
- Serial port (RS-232)
- Ethernet port (RJ45)
- HDMI interface (external display)

i·SmartCare 10
 Blood Gas Analyzer



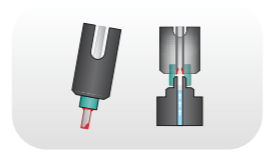
- 01 Maintenance Free**
 - All-in-One multi test cartridge contains all reagents & consumables
 - Self-cleaning sample probe helps maintain sample integrity
- 02 Fast, Safe & Reliable Results**
 - EEPROM chip enables automatic cartridge information loading
 - Fast patient test results: 50 seconds
 - Fully automated calibration and system performance monitoring
- 03 Easy to Use & Simple Operation**
 - Syringe and capillary samples without adapters
 - Built-in sample barcode scanner & printer
 - Internal battery provides up to 2 hours of full operation without AC power
 - One-touch design
- 04 Connectivity Management**
 - Analyzer monitoring including QC status
 - Real-time data transfer to HIS/LIS
 - Middleware keep strict quality control and strict data security & integrity
- 05 Efficiency**
 - Wide range of available cartridges (by analyte menu and volumes) allows for best-fit to testing needs
 - Light weight and small foot-print

Intuitive Touch Screen Interface

- Microsoft® Windows® 10 operation
- 9 inch TFT LCD touch screen
- Wide view angle

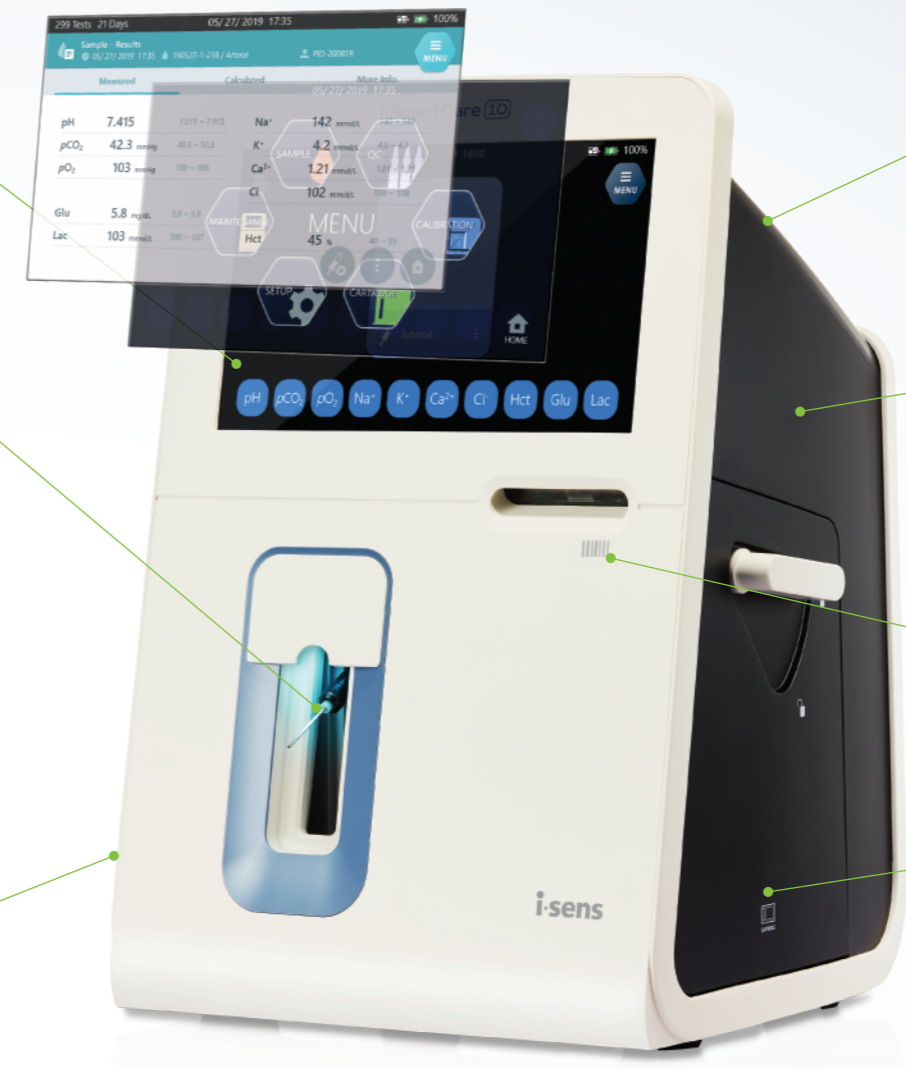
Intelligent Sample Probe

- Syringe or capillary position depending on sample type selection
- Rinses out septum and probe after each sample to avoid carry-over
- Illuminated sampling area for low-light testing environments
- Exposed probe only during sampling (automatically retracts for safety purposes)



Rechargeable Internal Battery

- Up to 2 hours of sample measurement



Built-In Printer

- Hard copy printout of patient and QC calibration results

External Input / Output Ports

- Serial port (RS-232)
- Ethernet port (RJ45)
- 2 x USB 3.0
- HDMI Interface (external display)

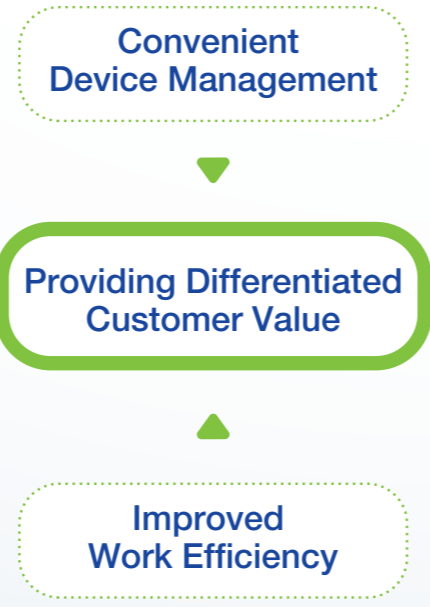
Built-In Barcode Scanner

- Internal barcode scanner enters samples and operator ID automatically

Built-In EEPROM Chip

- Automatic cartridge information recognition
- Prevention of copy reagents
- Ensures valid cartridges and quality of reagents are used

Care Connect®



Micro Sensor Technology

Micro sensors fabricated on i-SENS' unique screen-printed electrodes allow for accurate analysis of samples at small volumes

All-in-One Multi Test Cartridge Technology

Each cartridge contains all reagents, sensors, calibration solutions and complete fluidic components from sampler to waste bag required for optimal testing

