



i15

Blood Gas and Chemistry Analyzer

Parameter	Reportable Range	Resolution	Measurement method
pH (pH units)	6.5 – 8.20	0.001	Potentiometric sensor
pO ₂ (mmHg)	10 – 700	0.1	Amperometric sensor
pCO ₂ (mmHg)	10 – 150	0.1	Potentiometric sensor
Na (mmol/L)	100 – 180	0.1	Potentiometric sensor
K (mmol/L)	2.0 – 9.0	0.01	Potentiometric sensor
Ca (mmol/L)	0.25 – 2.5	0.01	Potentiometric sensor
Cl (mmol/L)	65 – 140	0.1	Potentiometric sensor
Glu (mg/dL or mmol/L)	20 – 700\1.1 – 38.9	1/0.1	Amperometric sensor
Lac (mg/dL or mmol/L)	0.3 -20\ 2.7 – 180.2	0.01/0.1	Amperometric sensor
Hct (%PCV or Fraction)	10 – 75 0.10 – 0.75	1%/0.01	Conductance sensor

Specification

Throughput	Results in 1 minute after sample aspiration
Sample volume	120uL
Quality control	3 or 5 levels QC, External electronic simulator
Display	7-inch color LCD Display, 800*480
Interface	4 x USB 2.0 host, 1 x RS232, WLAN
Input device	Touch screen and barcode scanner
Power supply	100~240VAC,50/60Hz
Battery	4200mAh rechargeable lithium-ion battery, 50 samples continuous testing
Dimensions (W*H*D)	238*153*310 mm
Weight	3.65 KG
Operation Environment	10 °C-31 °C; %RH: 25%-80%; 700 -1066 KPa

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ENG-OB & GYN-I15-V1.1-20130426

Care for Health



Small and portable

- Small size (315*238*153mm)
- Light weight < 4 Kg (including battery)
- Build-in high capacity rechargeable battery

Friendly User Interface

- Color LCD touch screen display
- "traffic light" indicator
- Build-in multimedia tutorials

Unique smart cartridge design

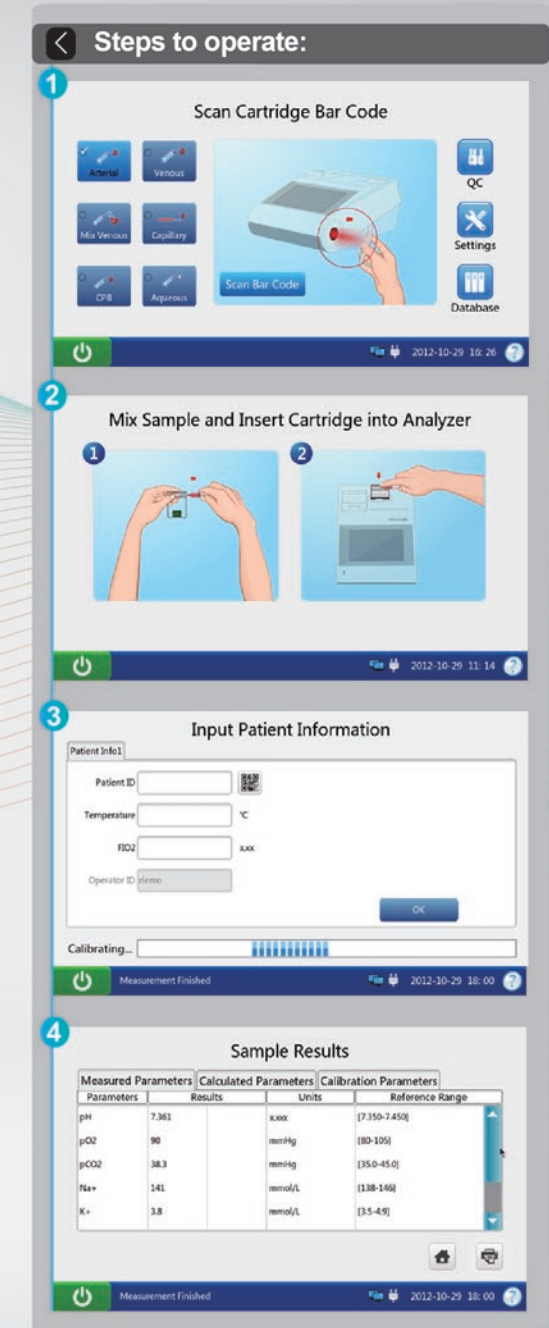
- Single use cartridge with multi tests
- Safety and Environment protection
- Long cartridge storage life at room temperature

Convenient operation, accurate and reliable results

- Standby without consumption and complete maintenance free
- Fast, accurate, and convenient build-in auto calibration
- Auto sample aspiration assures convenience and reliability.

Powerful Data Management

- USB ports for data transfer
- 10,000 patient data storage
- Optional data management software
- Seamless integration with LIS/HIS through wired or wireless networking



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Advanced cartridge technology — Smart cartridges (Five in One)



- 1.MLC:** Microchip liquid control technology can ensure the tightness and reaction speed of liquid flow to improve precision and accuracy, meanwhile it can achieve the miniaturization and maintenance free for analyzer.
- 2.MMM:** Microsensor multifunction membrane technology is the core technology to improve the high sensitivity and variety of tests
- 3.SAM:** Innovative sensor array microfluidics design can accurately measure the volume of sample and reagent to improve the precision and accuracy
- 4.AC:** Reliable analyzer auto-calibration provide multipoint calibration curve in factory and one-point check by enduser which can eliminate the error between different analyzers and tests
- 5.TR:** Adopting international accepted traceability of calibrator and quality control, analyzer can get highly comparable results with central lab.

Variety of test Cartridges

	pH	pCO ₂	pO ₂	Na	K	Cl	Ca	Hct	Glu	Lac
BG3	—	—	—	—	—	—	—	—	—	—
BG8	—	—	—	—	—	—	—	—	—	—
BG4	—	—	—	—	—	—	—	—	—	—
BG9	—	—	—	—	—	—	—	—	—	—
BG10	—	—	—	—	—	—	—	—	—	—

Calculated values: HCO₃-act, HCO₃-std, BE(ecf), BE(B), BB(B), ctCO₂, sO₂(est), Ca⁺⁺(7.4), AnGap, tHb(est), pO₂(A-a), pO₂(a/A), RI, pO₂/FIO₂, cH+(T), pH(T), pCO₂(T), pO₂(T), pO₂(A-a)(T), pO₂(a/A)(T), RI(T), pO₂(T)/FIO₂, Ca⁺⁺(7.4)

Future menu in development: BUN/Urea & Creatinine, Coagulation test (ACT, APTT, PT), Immunoassay panels