



Aspen-BG^{Plus}

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	140µl
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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Care for Health



LAN/Wi-Fi connectivity Build-in Printer and USB Storage



- 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

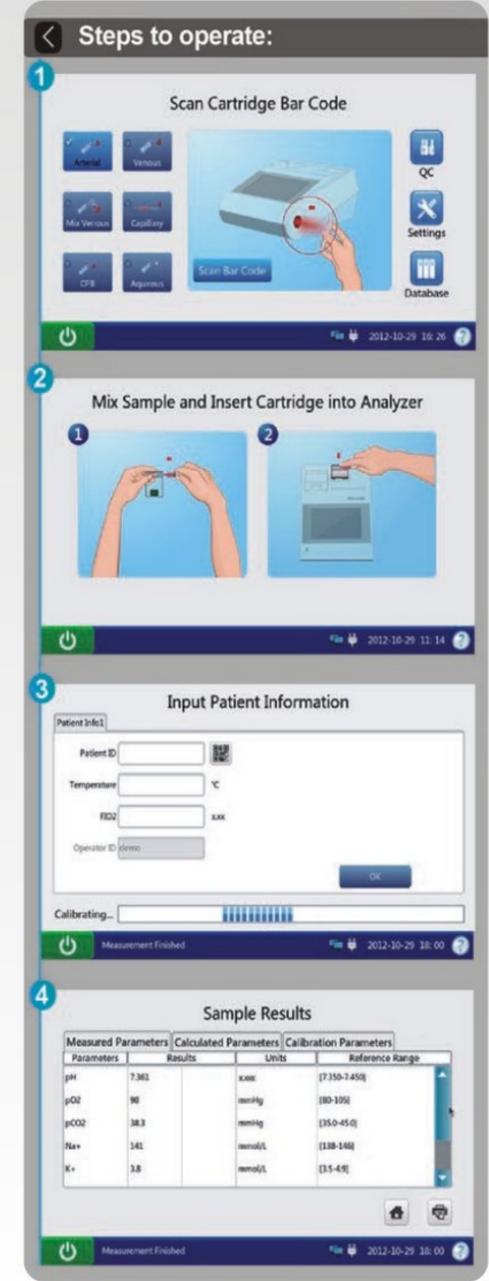
- Unique smart cartridge design**
- Single use cartridge with multi tests
 - Safety and Environment protection
 - Long cartridge storage life at room temperature

- 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



Portable and lightweight
Touch screen with built-in multimedia tutorials



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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 inducer which can eliminate the error between different analyzers and tests
- 5. TR:**
Adopting international accepted traceability 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)