ASPEN



Aspen-BG Plus

Blood Gas and Chemistry Analyzer



Care for Health

LAN/Wi-Fi connectivity



Build-in Printer and USB Storage

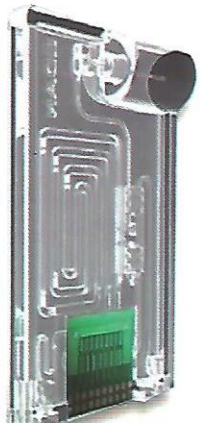




Aspen-BG Plus

Blood Gas and Chemistry Analyzer

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 microfluidios 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.

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

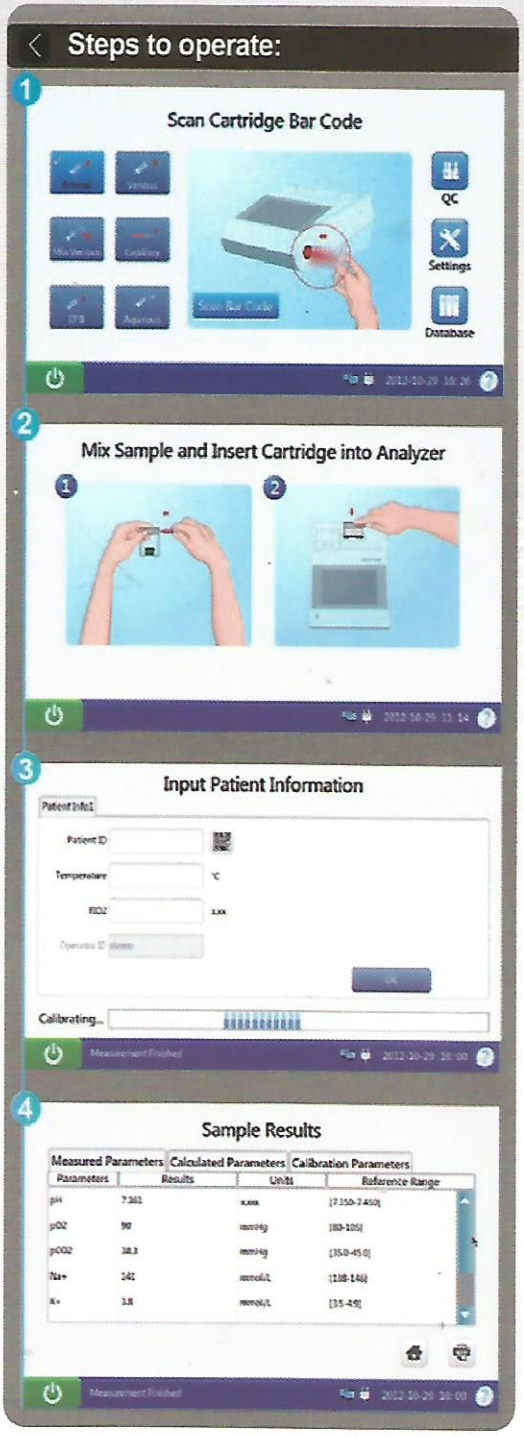
Convenient operation, accurate and reliable results
- Standby without consumption and complete maintenance free
- Fast, accurate and convenient build-in auto calibration
- Auto sample aspiration assures convenience and reliability

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



Portable and lightweight

Touch screen with built-in multimedia tutorials



Variety of test Cartridges

	pH	pCO_2	pO_2	Na	K	Cl	Ca	Hct	Glu	Lac
BG3	—	—	—							
BG8	—	—	—	—	—	—	—	—		
BG4	—	—	—							—
BG9	—	—	—	—	—	—	—	—	—	
BG10	—	—	—	—	—	—	—	—	—	—

Calculated values: HCO_3-act, HCO_3-std, BE(ecf), BE(B), BB(B), $ctCO_2$, sO_2(est), Ca++(7.4), AnGap, tHb(est), pO_2(A-a), pO_2(a/A), RI, pO_2/FIO_2, cH+(T), pH(T), pCO_2(T), pO_2(T), pO_2(A-a)(T), pO_2(a/A)(T), RI(T), pO_2(T)/FIO_2, Ca++(7.4)

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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

FDA TUV SUD CE

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