



i15

Blood Gas and Chemistry Analyzer

Parameter	Linearity	Resolution	Measurement method
pH (pH units)	6.5 7.8	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)	2.7 180.2/0.3 -20	0.1/0.01	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 / 80µl
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	5000mAh rechargeable lithium-ion battery, 50 samples continuous testing
Dimensions (W*H*D)	315*238*153 mm
Weight	3.65 KG
Operation Environment	10°C-31°C; %RH: 25%-80%; 57-106.6 KPa

About Edan

Edan is a healthcare company dedicated to improving the human condition around the world by delivering value-driven, innovative and high-quality medical products and services. For over 20 years, Edan has been pioneering a comprehensive line of medical solutions that address a broad range of healthcare practices including:

- Diagnostic ECG
- Patient Monitoring
- OB/GYN
- Ultrasound Imaging
- Point-of-Care Testing
- *In-Vitro* Diagnostics
- Veterinary

Healthcare professionals around the world depend on Edan's breakthrough medical technologies and outstanding customer support.



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+91-44-2481 9610

+91 94444 06059

selvamani@clinicalautomation.in

admin@clinicalautomation.in

www.clinicalautomation.in

17B, Rajaram Film Directors Colony, Kodambakkam, Chennai - 600 024.

LAN/Wi-Fi connectivity



Build-in Printer and USB Storage



Printer



Cartridge



Interface



USB Storage



Power Switch



Traffic Lights



i15 Video

Portable, lightweight

- Capable to run 50 samples with fully-charged battery
- Diagnose at the point of care, patient side, out in the field or exam room

Easy, Quick and Convenient

- Zero maintenance
- Minimize hands on time and training requirement
- Auto-sampling
- Report is ready within one minute after sample aspiration

Accurate and Reliable

- Innovative microchip liquid control technology and micro-sensor multifunction membrane technology
- High sensitivity and accuracy
- Calibrator, Control and Electronic simulator to TRIPLE guarantee the RESULTS!

Flexible Data Management

- Acquire patients information via barcode/QR code
- Up to 10,000 patient data storage
- 4 USB ports and LAN/WiFi for data management
- Optional data management software

Multi-parameter cartridge

- Multi popular time-sensitive parameters come in one cartridge, including ABG, electrolytes and metabolites
- Single-use cartridge avoids contamination
- Room temperature storage with long shelf-life



Portable and lightweight



Touch screen with built-in multimedia tutorials



i15 Quality Control System

Triple Guarantee the Result



Variety of test Cartridges

	pH	pCO ₂	pO ₂	Na	K	Cl	Ca	Hct	Glu	Lac
Microsample BG3/BG3	—	—	—	—	—	—	—	—	—	—
Microsample BG8/BG8	—	—	—	—	—	—	—	—	—	—
Microsample BG4/BG4	—	—	—	—	—	—	—	—	—	—
Microsample BG9/BG9	—	—	—	—	—	—	—	—	—	—
Microsample BG10/BG10	—	—	—	—	—	—	—	—	—	—
Microsample BC4/BC4	—	—	—	—	—	—	—	—	—	—
Microsample SC4	—	—	—	—	—	—	—	—	—	—

Calculated values: cH+, 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, mOsm