



i15

Blood Gas and Chemistry Analyzer

| Parameter | Reportable Range | Resolution | Measurement method |
|-------------------------|----------------------|------------|-----------------------|
| pH (pH units) | 6.5 – 8.0 | 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 |
| 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) | 238*153*310 mm |
| Weight | 3.65 KG |
| Operation Environment | 10 °C-31 °C; %RH: 25%-80%; 70 -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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i15

Blood Gas and Chemistry Analyzer



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 |
|------|----|------------------|-----------------|----|---|----|----|-----|-----|-----|
| BG3 | — | — | — | — | — | — | — | — | — | — |
| BG8 | — | — | — | — | — | — | — | — | — | — |
| BG4 | — | — | — | — | — | — | — | — | — | — |
| BG9 | — | — | — | — | — | — | — | — | — | — |
| BG10 | — | — | — | — | — | — | — | — | — | — |
| BC4 | — | — | — | — | — | — | — | — | — | — |

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