### i15 Blood Gas and Chemistry Analyzer

#### Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Reportable Range</th>
<th>Resolution</th>
<th>Measurement method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH (pH units)</td>
<td>6.5 – 8.0</td>
<td>0.01</td>
<td>Potentiometric sensor</td>
</tr>
<tr>
<td>pO₂ (mmHg)</td>
<td>10 – 700</td>
<td>0.1</td>
<td>Amperometric sensor</td>
</tr>
<tr>
<td>pCO₂ (mmHg)</td>
<td>10 – 150</td>
<td>0.1</td>
<td>Potentiometric sensor</td>
</tr>
<tr>
<td>Na (mmol/L)</td>
<td>130 – 180</td>
<td>0.1</td>
<td>Potentiometric sensor</td>
</tr>
<tr>
<td>K (mmol/L)</td>
<td>2.0 – 9.0</td>
<td>0.01</td>
<td>Potentiometric sensor</td>
</tr>
<tr>
<td>Ca (mmol/L)</td>
<td>2.5 – 2.5</td>
<td>0.01</td>
<td>Potentiometric sensor</td>
</tr>
<tr>
<td>Cl (mmol/L)</td>
<td>65 – 140</td>
<td>0.1</td>
<td>Potentiometric sensor</td>
</tr>
<tr>
<td>Glu (mg/dL or mmol/L)</td>
<td>20 – 700/1.1 – 38.9</td>
<td>1/0.1</td>
<td>Amperometric sensor</td>
</tr>
<tr>
<td>Lac (mg/dL or mmol/L)</td>
<td>2.7 – 180/0.3 – 20</td>
<td>0.1/0.01</td>
<td>Amperometric sensor</td>
</tr>
<tr>
<td>Hct (%PCV or Fraction)</td>
<td>10 – 75/0.10 – 0.75</td>
<td>1%/0.01</td>
<td>Conductance sensor</td>
</tr>
</tbody>
</table>

**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, 640*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

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**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.
i15 Quality Control System
Triple Guarantee the Result

Steps to operate:
1. Insert Cartridge
2. Touch Screen
3. Select Parameter
4. Press Start

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

i15 Video

Variety of test Cartridges

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>pH</th>
<th>pCO2</th>
<th>pO2</th>
<th>Na</th>
<th>K</th>
<th>Cl</th>
<th>Ca</th>
<th>Hct</th>
<th>Glu</th>
<th>Lac</th>
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</thead>
<tbody>
<tr>
<td>BG0</td>
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</table>

Calculated values: pH, HCO3-, 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(T), mOsm