

## vPad-O<sub>2</sub><sup>TM</sup> - Performance Specifications

### Saturation (SpO<sub>2</sub>):

Range: 30% to 100%  
Increments: 1%  
Presets: 6, user definable  
Range of adjustment and presets may vary according to pulse oximeter specifications

### SpO<sub>2</sub> Accuracy:

Saturation within DUT specified range:  
±1 count + specified accuracy of the DUT

### Heart Rate:

Range: 20 to 300 BPM  
Increments: 1 BPM  
Presets : 6, user definable  
Accuracy: ± 0.25 BPM (sync mode)  
otherwise, ±1 BPM

### Pulse Amplitude:

Range: 0 to 100%  
Increments: 1% steps.  
Presets : 6, user definable  
Accuracy: ± 1%

### Signal Artifact:

Four preset simulations:  
Movement  
Tapping (Spike artifact)  
Shivering (Tremor artifact)  
Shake Table (2.5Hz Sinewave)

### Auto Presets:

Unlimited preset patient simulations  
Default Auto Presets:  
Normal Adult  
Hypoxia  
Movement Artifact  
Tachycardia  
Bardycardia  
Neonate  
Low Perfusion  
No perfusion  
Tremor (Shivering Artifact)

### Alarm Tests:

Automated test sequences for determining oximeter alarm response time to:  
Low Saturation  
Low Heart Rate  
High Heart Rate  
Low Perfusion  
Signal Artifact  
Five defaults, plus unlimited programmable alarm sequences

### Communication / User Interface:

via vPad-A1 Base Unit  
Android 5" tablet:  
Touchscreen User Interface  
Wired (USB) or Bluetooth mode  
WiFi  
16 GB memory  
Dual XBUS for Datrend test automation

### Power Supply:

via vPad-A1 Base Unit  
External AC adapter  
Internal rechargeable Li-Ion batteries (for 10 hrs of simulation with full charge)

### Dimensions:

98mm x 208mm x 30mm (3.85" x 8.2" x 1.18") A1 Base  
90mm x 160mm x 24mm (3.54" x 6.3" x 0.95") SpO<sub>2</sub> Probe

### Weight:

440g (0.96lb) A1 base  
122g (0.27lb) SpO<sub>2</sub> Probe

### Environment:

15°C to 40°C, 10% to 90% RH, Indoor Use Only, Category II

*All specifications subject to change without notice.*

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