

# 504DX Digital Oximeter

*Perform continuous or spot-check pulse oximetry on a broad range of patients, from neonate to adult. Exceptionally compact and portable with impressive capabilities – at a surprisingly affordable price.*

## Features

- Advanced SpO<sub>2</sub> and heart rate monitoring – from routine, periodic spot-check measurements to extended, continuous monitoring.
- Accommodate all of your patients – from neonate to adult – with just one monitor.
- Unique DOX™ digital SpO<sub>2</sub> technology for improved pulse recognition and artifact rejection.
- Audible and visual alarms provide instant notification.
- Optional printer, with user-definable report formats.
- 24-hour internal memory supports Profox Oximetry sleep study software.
- Built-in, rechargeable sealed lead acid battery ensures uninterrupted operation throughout patient transport or during power failure.



**The 504DX digital oximeter is exceptionally compact, lightweight, and designed for the way you work.** With advanced DOX pulse oximetry and heart rate monitoring, the 504DX digital oximeter offers the reliability and ease of use that have put Criticare monitors in a class by themselves.

Full-featured audible and visual alarms ensure accurate extended, unattended monitoring. The optional fully-integrated, internal printer produces high quality hard copies of graphic trends, tabular trends, and sleep summary reports at user-defined intervals.

# 504DX Digital Oximeter

## Technical Specifications

### Pulse Oximetry

Range: 0% to 99%  
Resolution: 1%  
Accuracy: 70% to 99% range:  $\pm 2\%$   
Method: Dual wavelength LED

### Heart (Pulse) Rate

Range: 20 to 300bpm  
Resolution: 1bpm  
Accuracy:  $\pm 1$ bpm or 1%, whichever is greater

### Alarms

Indication: Audible; visual (EN475); adjustable volume  
Silence: Temporary (2 min) and Permanent  
Parameter/Range/Default: High Saturation; 70% to 98% or Off; Off  
Low Saturation; 30% to 99% or Off; 85%  
High Pulse; 80 to 250bpm or Off; 150bpm  
Low Pulse; 20 to 150bpm or Off; 50bpm

### Trend

Memory: 24 hr at 4 sec intervals

### Display

Type: LED  
Parameters: SpO<sub>2</sub>; pulse rate; pulse bar  
Status: Alarm Silence; Sensor; Low Battery; External Power; Neonate Mode  
Text: Alphanumeric LCD  
Languages: User-selectable: English, French, German, Italian, Portuguese, Spanish

### Controls

Keys: 8; membrane-activated

### System Output

Com Port: RS 232-compatible; digital or analog; mini-din  
Serial Interfaces: ASCII, text, or CSV; Profox-compatible

### Printer

Type: Thermal line printer; optional  
Tabular Mode: 5, 15, 30 sec intervals; 1, 2, 3, 5, 10, 15, 30, 60 min intervals; Off  
Graphical Mode:  
Resolution: 5, 15, 30 sec; 1, 2 min  
Span: 1, 4, 8, 12, 24 hr

### Physical Properties

Weight: With printer and battery: 1.52kg; 3.34 lb  
Size: Base unit: 14.4cm (H) x 17.8cm (W) x 12.2cm (D); 5.67" (H) x 7" (W) x 4.81" (D)

### Power Requirements

Voltage: 90 to 260 VAC, 47 to 63Hz  
Battery: Sealed lead acid; life: 6 hr, typical; recharge time: 8 hr

### Environmental

Operating Temperature: 0° to 45° C; 32° to 113° F  
Storage Temperature: -20° to 50° C; -4° to 122° F  
Operating Humidity: 15% to 90%, noncondensing  
Altitude: -390m to 3,658m; -1,280' to 12,000'

### Classification

Type of Protection: Class II equipment  
Degree of Protection: Type CF, Defibrillator-proof  
Safety: EN 60601-1



Quality systems registered to ISO 13485 and CE marking per Annex II, Clause 3 of Council Directive No. 93/42/EEC concerning medical devices.

Specifications subject to change without notice.

Profox Oximetry software is a product of Profox Associates, Inc.