VitalCare™ 506N3 Series Monitors

Proprietary ComfortCuff™ NIBP, pulse oximetry, and predictive temperature in one compact, easily transported monitor. Ideal for spot-checks or continuous vital signs monitoring.

506N3 Models

DN3: DOX™ SpO₂ and NIBP
DNP3: DOX™ SpO₂, NIBP, and printer
DNT3: DOX™ SpO₂, NIBP, and FasTemp™ temperature
DNTP3: DOX™ SpO₂, NIBP, FasTemp™ temperature, and printer.
LN3: OxiMax™ SpO₂ and NIBP
LNP3: OxiMax™ SpO₂, NIBP, and printer
LNT3: OxiMax™ SpO₂, NIBP, and FasTemp™ temperature
LNTP3: OxiMax™ SpO₂, NIBP, FasTemp™ temperature, and printer.

Features

- Proprietary ComfortCuff™ NIBP measures on inflation for faster, more comfortable readings.
- Choice of Criticare DOX™ digital SpO₂ technology or Nellcor OxiMax™ SpO₂ technology.
- Audible and visual alarms are adjustable providing instant notification the way you need them.
- Optional FILAC FasTemp™ predictive temperature for quick, accurate measurements.
- Optional internal printer for on-demand, automatic interval, trends or multi-patient reports.

Spot-check or continuously monitor three critical parameters on neonates to adults with a single monitor.

Designed to travel everywhere you do, the VitalCare™ 506N3 series patient monitor with integrated carry-handle attaches quickly and easily to a rolling stand. Available in multiple configurations – with choice of Criticare or Nellcor oximetry – the 506N3 patient monitors provide maximum versatility and cost-effectiveness.

New smart battery management allows up to 100 NIBP measurements on a single charging. With a compact design that is easily setup for spot-check or continuous monitoring, the 506N3 patient monitor adapts readily to hospital, clinic and transport requirements.
## Technical Specifications

### Non-Invasive Blood Pressure
- **Technique:** Oscillometric measure upon inflation
- **Measurement Time:** <40 seconds typical; 0 to 300mmHg; standard adult cuff
- **Automatic Measurement Cycles:** 1 - 60 minute; 2 - 4 hour; STAT
- **Inflation Pressure Range:**
  - (Adult) 30 to 300mmHg
  - (Pediatric) 30 to 150mmHg
  - (Neonate) 20 to 150mmHg
- **Resolution:** 1mmHg
- **Clinical Accuracy:** SP-10:2002
- **Transducer Accuracy:** ±2mmHg or ±2% of reading, whichever is greater, over full range
- **STAT mode:** 5 minutes of consecutive readings

### Pulse Oximetry
- **Range:** 1% to 99%
- **Resolution:** 1%
- **Accuracy (DOX only):**
  - 70% to 99% range: ±2%;
  - 50% to 69% range: ±3%;
  - <50%: unspecified
- **Accuracy (OxiMax Only):**
  - 70% to 99% range: ±2%;
  - <70%: unspecified
- **Method:** Dual wavelength LED
- **Audio:** Tone with each detected pulse; pitch varies with saturation

### Heart (Pulse) Rate
- **Range:** 20 to 300bpm
- **Accuracy (DOX only):** Greater of ±1bpm or ±1%, of reading
- **Accuracy (OxiMax only):** Greater of ±1bpm or ±1%, of reading
- **Update Time:** Every second
- **Resolution:** 1bpm
- **Pulse Volume:** 10 levels or Off

### Temperature (optional)
- **Type:** FILAC FasTemp™
- **Method:** Predictive or Continuous
- **Channels:** 1
- **Range:** 30.0º to 43.0º C
- **Accuracy Continuous Mode:** ±0.2ºF (±0.1ºC)
- **Accuracy Predictive Mode:** ±0.2ºF (±0.1ºC) for ranges 37°C to 39 °C
  - (Compliant with EN 12470-3 and ASTM E1112:98)
- **Resolution:** 0.1º F or 0.1º C
- **Predictive Response Time:**
  - Oral: 10 seconds typical;
  - Axial: 10 seconds typical;
  - Rectal: 10 seconds typical
- **Probes/Wells:**
  - Oral/Axial FILAC FasTemp [202026]
  - Rectal FILAC FasTemp (optional) [202034]
  - Isolation Well, Oral, Axial [202089]
  - Isolation Well, Rectal (optional) [202087]

### Alarms
- **Indication:** Audible; Visual
- **Volume:** 10 levels or Off
- **Silence:** Yes; 2 minutes or permanent

### Trend Memory
- **Memory:** Last 24 hours
- **Parameters:** SpO2, pulse rate, NIBP, temperature
- **Report Types:** Single Patient or Multi-patient; Selectable formats

### Displays
- **Type:** LED
- **Parameters:** NIBP, SpO2; temperature, pulse rate; pulse bar
- **Status:** Alarm Silence; Sensor; Low Battery; External Power; Patient Size
- **Text:** Alphanumeric LCD
- **Languages:** English, French, German, Italian, Portuguese, Spanish, Dutch, Danish

### System Output
- **Com Port:** Serial, RS 232-compatible
- **Printer Type:** Thermal array
- **Tabular Mode:** 1 - 60 minute intervals; 2 - 24 hour intervals; Auto on BP; Auto on Alarm, Off

### Mechanical
- **Weight:** Base unit with battery: 6.95 lb; 3.15kg
- **Size:** Base unit: 8.7” (H) x 7.1” (W) x 6.5” (D); 22cm (H) x 18cm (W) x 16.5cm (D)
- **Power Requirements**
  - **Voltage:** 100 to 240 VAC, 50 to 60 Hz
  - **Battery:** Sealed lead acid; Life: 8 hours
  - **Rechargeable:** 6 hours

### Environmental
- **Operating Temperature:** 32º to 113º F; 0º to 45º C
- **Storage Temperature:** 23º to 122º F; -5º to 50º C
- **Operating Humidity:** 15% to 90%, non-condensing

### Classification
- **Type of Protection:** Class I equipment
- **Degree of Protection:** Type CF defibrillator-proof equipment
- **Protection against Ingress:** IPX1 rating, Drip-Proof Equipment

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Specifications subject to change without notice.