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™ SpO$_2$ and NIBP

DNP3: DOX™ SpO$_2$, NIBP, and printer

DNT3: DOX™ SpO$_2$, NIBP, and FasTemp™ temperature

DNTP3: DOX™ SpO$_2$, NIBP, FasTemp™ temperature, and printer.

LN3: OxiMax™ SpO$_2$ and NIBP

LNP3: OxiMax™ SpO$_2$, NIBP, and printer

LNT3: OxiMax™ SpO$_2$, NIBP, and FasTemp™ temperature

LNTP3: OxiMax™ SpO$_2$, NIBP, FasTemp™ temperature, and printer

Features

- Proprietary *ComfortCuff™ NIBP* measures on inflation for faster, more comfortable readings.

- Choice of Criticare DOX™ digital SpO$_2$ technology or Nellcor OxiMax™ SpO$_2$ 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.

CSI CRITICARE SYSTEMS, INC.

VitalCare™ 506N3 Series Monitor

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:	30 to 300mmHg (Adult)
	30 to 150mmHg (Pediatric)
	20 to 150mmHg (Neonate)
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 Unspecified for <30 or >240 bpm
Accuracy (OxiMax only):	Greater of ±1bpm or ±1%, of reading Unspecified for <30 or >240 bpm
Update Time:	Every second
Resolution:	1bpm
Pulse Volume:	10 levels or Off

Temperature (optional)

Type:	FILAC FasTemp™
Method:	Predictive or Continuous
Channels:	1
Range:	30.0° to 43.0° C
Accuracy Continuous Mode:	±0.2°F (±0.1°C)
Accuracy Predictive Mode:	±0.2°F (±0.1°C) for ranges 37°C to 39 °C (Compliant with EN 12470-3 and ASTM E1112:98)
Resolution:	0.1° F or 0.1° 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:	SpO$_2$, pulse rate, NIBP, temperature
Report Types:	Single Patient or Multi-patient; Selectable formats

Displays

Type:	LED
Parameters:	NIBP, SpO$_2$; 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:	32° to 113° F; 0° to 45° C
Storage Temperature:	23° to 122° F; -5° to 50° 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

Quality systems registered to ISO 9001 and CE marking per Annex II, Clause 3 of Council Directive No. 93/42/EEC concerning medical devices.

Specifications subject to change without notice.

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