

Part Number	Model	Description
510-NT	BP-S510	ECG, NIBP, Temperature, Nellcor® SpO ₂
510-NTP	BP-S510P	ECG, NIBP, Temperature, Nellcor SpO ₂ , printer
510-NTC	BP-S510C	ECG, NIBP, Temperature, Nellcor SpO ₂ , CO ₂
510-NTCP	BP-S510CP	ECG, NIBP, Temperature, Nellcor SpO ₂ , CO ₂ , printer
510-IBP		BP-S510 IBP Two Channel Module

Non-Invasive Blood Pressure (NIBP)

Measurement technology	Oscillometric method
Measurement method	Linear deflation method
Pressure display range	10 to 300mmHg
Pressure display accuracy	Less than ±3mmHg
NIBP Measurement range:	
SYS	60 to 250mmHg
MAP	45 to 235mmHg
DIA	40 to 200mmHg
Pulse rate	40 to 200bpm
NIBP accuracy	AAMI SP-10:2002+A1:2003
Pulse rate accuracy	±2% or ±2 beats

ECG (Electrocardiogram)

Leads	3/5 Lead Lead I, II, III, aVR, aVL, aVF, V (Chest Lead)
Heart Rate	
Measurement Range	20 to 250bpm
Accuracy	±3bpm or ±5% whichever is greater

Respiration (im RR)

Measurement method	Trans-thoracic impedance
Leads	RA to LA
Range	0, 3 to 120breaths/min
Accuracy	±3 breaths/min

SpO₂ (Pulse oximeter)

Measurement method	2 wave length pulse wave type
Range	1 to 100% SpO ₂
Accuracy	Adult/pediatric (When using SpO ₂ Disposable Sensor MAX-A) 70 to 100% SpO ₂ ±2 digits 1 to 69% SpO ₂ unspecified
Pulse Rate Range	20 to 250bpm
Pulse Rate Accuracy	±3bpm
Display update	Less than 30 sec

Temperature Measurement

Measurement method	Thermistor
Probe Type	Thermistor probe YSI 400 series (2 channels) (Probes not included)
Range	15 to 45°C (59 to 113°F)
Display Accuracy	±0.1°C (25 to 45°C) (77 to 113°F) ±0.2°C (15 to less than 25°C) (59 to less than 77°F)
Probe Accuracy	±0.1°C (±0.18°F)

IBP (Option)

Measurement method	Pressure Transducer Method
Pressure measurement range	-50 to +300mmHg
Pulse rate measurement range	20 to 250bpm
Display Accuracy	±3mmHg
Standard	IEC60601-2-34:2000

CO₂ (Option)

Measurement method	Non-dispersive Infrared Spectroscopy
Range	0-100mmHg : 0-13.3kpa : 0-10%CO ₂
Accuracy	±2mmHg or ±4% whichever is greater
Respiration(awRR) Range	0 to 120 breaths/min
Respiration(awRR) Accuracy	±1 breath/min

Recorder (Option)

Type	Thermal
Weight	150g (0.33lbs)
Resolution	8 dot/mm
Number of channels	1 to 2 channels
Paper Type	Thermal
Paper Width	50mm (2in)
Paper Speeds	25.0mm/sec and 50.0mm/sec (1in/sec and 2in/sec)

General

Dimensions	360(W) x 215(D) x 280(H)mm (14.2 x 8.5 x 11in)
Weight	5.5kg (12.1lbs) (excluding optional configurations and accessories)

Display

Screen Size	26.4cm (10.4in) measured diagonally
Screen Type/Color	Liquid Crystal Display (LCD) color
Resolution	800 x 600 pixels
Number of traces	4 or 6 waveforms
Safety Standard	IEC60601-1:1988+A1:1991+A2:1995
Degree of protection (enclosures)	IP21
Type of protection	Type CF - Applied part

Power Requirement

AC Power	100-240V-50/60Hz, 0.5-1.3A
Battery	Ni-MH, 12V/3.8Ah (1 included)

Environmental

Operating Temperature	10 to 40°C (50 to 104°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Operating Humidity	15 to 90% RH, non-condensing

Standard Accessories

All models include: reusable adult cuff, adult 3.5m cuff hose, ECG cable, ECG 3-lead wires, SpO₂ Durasensor® DS-100A, SpO₂ extension cable DOC-10, operation manual, power cord, rechargeable battery (1).

Models BP-S510C and BP-S510CP also include: CO₂ sampling set.

Models BP-S510P and BP-S510CP also include: printer paper.

Additional Accessories

ECG 5-lead wires, IBP transducers, IBP interface cable, temperature probes, rolling stand, and a full size range of reusable and disposable BP cuffs.