

Special Purchase!

Leading-edge patient monitor features patented Colin NIBP technology

The Colin BP-S510 provides high usability and flexibility in a compact package. The BP-S510 has a sophisticated design and provides simple, user-friendly operation. Its advanced functionality makes it perfect for a wide variety of uses, including post-anesthesia care, ambulatory surgery, endoscopy, oral/maxillofacial surgery, emergency rooms and more!

Ultimate Value!



- **Measures** ECG (3/5 lead), heart rate, Colin NIBP, Nellcor SpO₂ and respiration. Available with temperature, two-channel IBP, EtCO₂ and a printer.
- **Compact:** Conveniently compact and feature-packed, the BP-S510 is great for areas where space is at a premium.
- **Lightweight:** Weighing only 12.1 lbs, the BP-S510 is easy to carry from ward to ward. This lightweight device makes it easy to move to step-down, PACU, RR, etc.
- **Battery operation for portability:** Available with rechargeable batteries, the BP-S510 can be used during transport within your facility.
- **Wide viewing angle:** The BP-S510's large LCD screen features a wide viewing angle. Each parameter is color-coded in bright and vivid colors, making the information easy to read even from a distance. You can also select from multiple views to highlight just the information you need.

Additional features include

- **Bright 10.4" screen with four or six waveforms:** TFT LCD color screen with high resolution enables you to see data easily and clearly
- **Visual alarm indicator:** Allows 360° viewing angle
- **Comfortable handle** that is easy to grip and helps make sure the monitor won't slip when carried
- **Independent NIBP interval button**
- **NIBP start/stop button** that is large and easy to read
- **Trend screen button:** Tabular or graphical to trace readings



Technical Specifications

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 ± 3 mmHg
NIBP Measurement range:	
Adult/pediatric mode	
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	$\pm 2\%$ 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	± 3 bpm or $\pm 5\%$ (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	± 3 bpm
Display update	Less than 30 sec

Temperature Measurement (Option)

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	$\pm 0.1^\circ\text{C}$ (25 to 45°C) (77 to 113°F)
	$\pm 0.2^\circ\text{C}$ (15 to less than 25°C)
	(59 to less than 77°F)
Probe Accuracy	$\pm 0.1^\circ\text{C}$ ($\pm 0.18^\circ\text{F}$)

IBP (Option)

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

CO₂ (Option)

Measurement method	Non-dispersive Infrared Spectroscopy
Range	0-100mmHg : 0-13.3kpa : 0-10%CO ₂
Accuracy	± 2 mmHg or $\pm 4\%$ (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	IEC60601-1-1:1988+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

Accessories

Most models: 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).
Available w/: CO₂ sampling set, printer paper, ECG 5-lead wires, temperature probes, and a full size range of reusable and disposable BP cuffs

6 display modes for convenience and flexibility



Basic screen for six waveforms



Basic screen for four waveforms



Large numeric screen, Version A



Large numeric screen, Version B



Tabular trend screen



Graphical trend screen