



We Truly **MAKE IN INDIA**
All Modules indigenous.

Clarity

Clarity of thought..... spearheading diagnostic technology



Spectra SLIM+

OT / ICU / CCU grade Patient Monitor

CE

Precise | Reliable | Cost efficient

- 10.4" TFT large bright Screen for better visibility
- 8 real time configurable waveform display
- Single knob to browse menus/sub menus
- Design facilitates transit monitoring
- Adult, pediatric and neonate application
- Big font for better viewing from a distance
- Both audio and visual alarms for vital signs
- Night mode for patient comfort and to enhance TFT life
- Easy to recognise Alarm priority system with Color Coded Visual indication, Variable pitch and Melodious sounds

Specifications

General

Operation Size	knob
Weight	W 317 mm, D 103 mm, H 298 mm
Display	<2.2 Kgs.
Screen Type	Color TFT
Display Area	10.4"
Resolution	800 x 600
Wave Forms	Upto 8 waveforms can be displayed at any time. Numeric Display includes HR/ PR, SpO ₂ %, NiBP with MAP, Resp., Temp, IBP & CO ₂
Trends	3500 readings of NiBP, 118 Hrs. for all other parameters.
Networking	2 way Central Nursing Station connectivity.
Alarms	Adjustable alarm limits.
Applications	Adult, Pediatric, and Neonatal.

Electrical

Internal Battery	7.4V, 2200mAh Rechargeable Li ion
Charge time	Maximum 5 to 6 hours to full capacity
Operation	AC/DC operation
AC Mains	100- 240 V 50/60 Hz~1.5A
Fuse	1.5A F 250V
DC Socket	12 V
DC Fuse	5 A
Battery Backup	2 Hours Approx

***Use either Mains or DC at a time**

Environmental

Operating Temperature	0 to 45 °C
Operating Humidity	5 to 95% RH, non-condensing
Storing Temperature	-25 to 70° C

ECG

Leads	I, II, III, aVR, aVL, aVF, V in 5 Lead/ I, II, III 3 Lead configuration. at time 3 & 5 Lead
Heart Rate Range	20 to 250 bpm
Heart Rate Accuracy	± 3 bpm
Bandwidth Diagnostic	0.05 to 40 Hz
Bandwidth Monitoring	0.5 to 40 Hz
Display Sweep Speed	6.25, 12.5, 25, 50 mm/sec.
ECG Sensitivity	4, 2, 1, 0.5, 0.25 mV/cm.
Lead Open Detection	Yes
Pacemaker Detection	Yes
Arrhythmia	Selectable arrhythmia detection.
CMRR	> 90 dB
Input Dynamic Range	± 5 mV AC, ± 300 mV DC
ST Range	from -0.9 to 0.9 mV
Defib Protection	protected against 360 J discharge and electrostatic potentials.

SpO₂

Range	I, II, III, aVR, aVL, aVF, V in 5 Lead/ I, II, III 3 Lead configuration. at time 3 & 5 Lead
% Saturation	20 bpm to 250 bpm
Pulse Rate	± 3 bpm
Accuracy SpO ₂	70% to 100%: ± 2 digits
	50% to 69%: ± 3 digits
	0% to 49 %: Unspecified
Pulse Rate	± 3 bpm
PR Resolution	1 bpm
Cautery Protection	protected against external cautery interference.

Temperature Single

Range	0 to 50 °C
Accuracy	± 0.1 °C

NiBP

Technique	Oscillometric
BP Measurement Range	
Adult	30 to 250 mmHg
Pediatric	30 to 200 mmHg
Neonatal	20 to 110 mmHg
Measurement Modes	
Auto	Automatic BP measurements at 2,3,5,10,15,20,30,60,120,240,480 & 720 Minutes
Manual	Single measurement initiated by NiBP Start/ Stop switch.

STAT Mode	Average of all readings in 5 minutes.
Pulse Rate Range	20 to 250 bpm
Over Pressure Monitor	270 mmHg (Adult)
	220 mmHg (Pediatric)
	130 mmHg (Neonatal)

Respiration

Technique	Trans-thoracic impedance.
Range	5 to 150 breaths / min.
Accuracy	± 2 or ± 3 % breaths / min.
Resolution	1 breath / min.
BW	0.1 to 3 Hz
Leads	RA to LA
Display Sweep Speed	6.25, 12.5, 25, 50 mm/sec.
Lead Open detection	Yes

IBP Single/Dual/Triple Ch (Optional)

Measurement Range	-10 to 300 mmHg
Pressure Transducer	
Sensitivity	5 µV/V/ mmHg
Impedance range	300 to 3000 (ohm)
Resolution	1 mmHg
Accuracy	±1 mmHg or ± 2%, whichever is greater.

EtCO₂ (Optional)

Method	Infrared Absorption.
Measurement mode	Side Stream.
Measurement range	
EtCO ₂	0 to 99 mmHg
ICO ₂	0 to 99 mmHg
RR	5 to 150 rpm
Resolution	
EtCO ₂	1 mmHg
ICO ₂	1 mmHg
RR	1 rpm
Accuracy	
CO ₂ concentration	± 2 mmHg @ ≤ 5% Co ₂
	< 10% of reading @ > 5% Co ₂
RR	± 2 rpm
Apnea alarm	Yes
occlusion error	Yes

Printer (Optional)

Printer	Single / Dual channel printing
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Safety:

IEC 60601 - 1, 1-2, 2-49

Accessories included

NiBP Cuff (Adult)	1 No. 25 to 35 cm (10"-14")
SpO ₂ reusable sensor probe	1 No.
3 or 5 Lead ECG Patient cable	1 No.
Disposable electrodes	20 Nos.
Temperature Probe	1 No.(Optional)
IBP Sensor	1 No.(Optional)
IBP Cable	1 No.(Optional)
EtCO ₂ sampling line	1 No.(Optional)
Water Trap	1 No.(Optional)
Nozzle	1 No.(Optional)
Operating Manual/CD	1 No.

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