



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

Clarity

Clarity of thought..... spearheading diagnostic technology



Spectra SMART+

OT / ICU / CCU grade Patient Monitor

CE 0123

Precise | Reliable | Cost efficient

- 12.1" 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	knob
Size	W 312 mm, D 120 mm, H 305 mm
Weight	<2.4 Kgs.
Display	
Screen Type	Color TFT
Display Area	12.1"
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. Li_ion Rechargeable Battery
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	12-15 V 3 A
DC Fuse	5 A
Battery Backup	3 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	-5 to 70 °C

ECG

Leads	I, II, III, aVR, aVL, aVF, V in 5 Lead/ I, II, III 3 Lead configuration.
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	>110 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	
% Saturation	0% to 100%
Pulse Rate	20 bpm to 250 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	30 to 130 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



Clarity Medical Pvt. Ltd.

EC REP

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