



**1. General**

|                           |   |
|---------------------------|---|
| Display                   | : 7" Colour TFT   |
| Display area              | : 150 mm x 90 mm  |
| Dimensions                | : Approx. 275mm (H) x 323mm (W) x 200mm (D) without paddle.                     |
| Weight                    | : Approx.8 Kgs.   |
| Unit ON-OFF               | : By front panel push button,   |
| Operation                 | : By front Panel keyboard-1-2-3 operation, Encoder Operated on mains & battery. |
| Alarm                     | : User adjustable high & low limit, Audible and visual Alarming.                |
| Trend                     | : 24 hrs Graphical and Tabular trend of ECG, SpO2, NIBP                         |
| Charge/ Discharge Control | : Charge and Shock buttons on front panel and paddles.                          |
| Battery Backup time       | : 4 hrs Monitor Mode 3 hrs Defib mode   |

**2. Environmental**

|                                     |                  |
|-------------------------------------|------------------|
| Operating Temperature (°C)          | : - 5°C to +45°C |
| Storage Temperature (°C)            | : -5°C to +50°C  |
| Operating & Storage Humidity (% RH) | : Up to 95%      |

**3. DEFIB**

|                            |  |
|----------------------------|--|
| Operating Mode             | : Manual   |
| Waveform                   | : Biphasic Truncated Exponential   |
| Energy                     | : 2 to 360 joules in 15 steps selection  |
| Energy display             | : Displays selected and charged/delivered energy   |
| Synchronous Cardio Version | : Energy delivery begins within 60 ms of the QRS Peak  |
| Charging Time              | : 8 seconds on Mains   |
| Paddle Assembly            | : External paddle assembly with coil retractable High voltage cable. Adults & Pediatric paddle Integrated to same handle |
| Check Mode                 | : Manual check mode, Self test   |
| Patient Impedance range    | : 25 ohm to 150 ohm  |
| Shock Delivery             | : Through paddles or pads  |
| Event Summary              | : 250 shock events with 10 second of ECG data  |
| Paddles Support            | : Adult & pediatric paddles support  |
| ECG                        | : Through paddles pads   |

**4. ECG**

|                    |                      |
|--------------------|----------------------|
| Frequency response | : 0.5 Hz to 35 Hz    |
| Patient isolation  | : Optical isolation  |
| Lead selection     | : Lead I, II and III |
| Gain setting       | : 0.5, 1.0 and 2.0   |

NASAN-D&D-D-007

\*Due to our continuous product development program, the specification may change without prior notice.

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CMRR : > 90 db  
 Sweep Speed : 12.5, 25.0, 50.0 mm/sec  
 ECG : Through 5 lead ecg patient cable

**5. Printer**

Paper Type : Thermal paper 58mm width, 10 meters length for 2" printer  
 Event Printing : Prints 5 Seconds pre & post ECG with Date, Time, Energy and mode, Shock Status  
 ECG in Defib Mode : Prints last 10sec ECG through paddle  
 Print Annotates in Defib Mode : Time, Date, Mode, lead name, gain, sweep speed  
 ECG in Monitor Mode : Prints last 10sec ECG through cable  
 Print Annotates in Monitor Mode : Time, Date, selected Lead name, Gain, Sweep Speed.  
 Manual Defib Check Mode : Prints the status of Shock, Energy, Date and Time  
 Self Test Mode : Print the status of auto check, battery, date & Time.

**6. SpO2 (Optional)**

Range : 0 - 100%  
 Pulse rate : Displayed in ECG window, when PR is selected.  
 Pulse beep : Yes, with volume control  
 PR Range : 10 to 250 bpm (+/- 2 bpm)  
 Pitch variation with change in oxygen saturation.

**7. NIBP (Optional)**

Systolic, Diastolic and Mean arterial pressure  
 Range : 10-250mmHg  
 Method : Oscillometric  
 NIBP interval : User selectable - 2 min. to 250 min  
 Modes : Manual, auto  
 Cuff deflation : Automatic  
 Safety features : Automatic deflation if cuff pressure exceeds 280 mmHg  
 NIBP status display as : "Ready", when not taking reading  
 "Measuring", when taking reading and  
 "Error", if reading could not be taken due to some error while measuring  
 Patient Type : Adult, Pediatric, Neonatal

**8. AED Mode (Optional)**

Wave form : Biphasic truncated exponential  
 AED Shock Series : Energy level 200J for Adult, 50J for Paediatric  
 Charge Command : Automatic after identifying shockable rhythm  
 Shock Command : Front panel button, shock  
 Controls : Analyze  
 Defibrillation Electrode : Self adhesive, adult pads  
 Voice and Text prompts : Extensive text and audible messages to guide user

**9. PACER (Optional)**

Wave form : Monophasic  
 Modes : Demand or Non Demand  
 Pulse Current : From 10mA to 150 mA (resolution of 10 mA),  
 Pulse Duration : 40 ms (+/- 1ms)  
 Pacing rate : From 20 ppm to 250 ppm (increments of 1 ppm)  
 Refractory period : 340 ms (from 30 to 80 ppm); 240 ms(from 90 to 180 ppm).  
 Maximum output voltage : 150 V.  
 Impedance range : 200 ohm to 1 k ohm

**10. 12 lead ECG (Optional)**

: Simultaneous acquisition of 12 Leads of ECG and 'Remote Monitoring'

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