



## 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%

NASAN-D&D-D-007

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

### NASAN MEDICAL ELECTRONICS PVT. LTD

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### 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
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 50mm 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.	

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### **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
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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