

# HMS

HOSPITEC MEDICAL SYSTEM

# Biphasic Defibrillator

## Optional AED, Pacemaker, SpO2, NIBP, EtCO2



**SANJEEVANI 1006**

## Key Features

---

- ✓ 7" color display with built in printer
- ✓ Charging time 6 sec on mains

# Specifications

## General

Display	: 7 inch Colour TFT
Display area	: 150 mm x 90 mm
Dimensions	: H280 x W 330 x D220 mm (Max) without Paddle
Weight	: Approx. 6 Kgs. Max.
Unit ON-OFF	: By front panel push button
Operation	: By front panel keyboard, Encoder
Alarm	: User adjustable high & low limit, Audible and visual alarming
Trend	: 24 hrs graphical and tabular trend of ECG, SpO2, NIBP, EtCO2
Charge / Discharge Control	: Charge and Shock buttons on front panel and paddles

## Power Supply

Input	: 150 - 270 VAC, 50 Hz, 1 ∅
Battery	: 12 V 4.5Ah, Rechargeable
Battery capacity	: 3 hours for monitor and 70 - 100 shocks on full charge
LED indicator	: Low battery and battery charging
Power consumption	: 30 Watts (max.) in ECG mode

## Environmental

Operating Temp.	: -5°C to +50°C
Humidity	: up to 95 % non-condensing

## Defib (External Paddles )

Operating Mode	: Manual
Waveform	: Biphasic Truncated Exponential
Energy	: 2 to 200 joules in 12 steps selection
Energy display	: Displays selected and charged/delivered energy
Synchronous Cardio	: Energy delivery begins within 60 ms of the QRS Peak
Version	: Peak
Charging Time	: 6 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
Patient Impedance range	: 35 ohm to 250 ohm
Shock Delivery	: Through paddles or pads

## Defib (Internal Paddles) (Optional)

Operating Mode	: Manual
Waveform	: Biphasic Truncated Exponential
Energy	: 2 to 50 joules in 8 steps selection
Synchronous Cardio	: Energy delivery begins within 60 ms of the QRS Peak
Version	: the QRS Peak
Charging Time	: 6 seconds on Mains
Paddle Assembly	: Internal paddle assembly with paddle extension cord

## 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
Digital filter	: Digital signal processing for good quality of ECG
ECG traces viewing	: 4 seconds of ECG traces

## Heart Rate

Range	: 10 – 250 BPM
Accuracy	: +/- 2 BPM
Resolution	: 1 BPM
Tone	: Beep on every QRS detected
Alarm limit setting	: 10 - 250 (step of 1)

## Printer

Paper Type	: Thermal paper 50/55mm width, 20 meters length for 2 inch printer
Event Printing	: Prints 5 seconds pre & post ECG with Date, Time Energy and mode, Shock Status
ECG in Defib Mode	: Prints last 10 sec ECG through paddle
Print Annotates in Defib Mode	: Time, Date, Mode, lead name, gain, sweep speed
ECG in Monitor Mode	: Prints last 10 sec 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

## SpO2 (Optional)

Range	: 0 - 100%
Accuracy	: 70 - 100% + 2digits, 50 - 69% + 3 digits
Pulse rate	: Displayed in ECG window, when PR is selected
Pulse beep	: Yes, with volume control
PR range	: 10 to 250 bpm (+/- 2bpm)
Pitch variation with change in oxygen saturation	

## 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 280mmHg
NIBP status display	: "Ready", when not taking reading as "Measuring", when taking reading and "Error", if reading could not be taken due to some error while measuring
Patient Type	: Adult, Pediatric, Neonate

## 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	: Self adhesive, adult pads
Electrode	
Voice and Text prompts	: Extensive text and audible messages to guide user

## 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	: 340ms (from 30 to 80ppm); 240ms (from 90 to 180ppm)
Maximum output voltage	: 150 v
Impedance range	: 200 ohm to 1k ohm

## EtCO2 (Optional)

Parameter	: EtCO2, RR
Adaptor	: Adult, Pediatric, Neonate
Measurement Mode	: Mainstream & side stream
EtCO2 Range	: 0-100mmHg
Accuracy	: +/- 2 mmHg
Respiration Range	: 0-120 bpm

Also available 360J for special requirement.

\*DUE TO OUR CONTINUOUS PRODUCT DEVELOPMENT PROGRAM, THE SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE.