

## Technical 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.

### Defib

Operating Mode	: Manual
Waveform	: Biphasic
Energy	: 2 to 200 joules in 12 steps selection
Synchronous	: Energy delivery begins within 60 ms of the QRS Peak
Charging Time	: Less than 8 seconds
Paddle Assembly	: External paddle assembly with coil retractable high voltage cable. Adults & Pediatric paddle integrated to same handle
Check Mode	: Manual test mode
Operation	: By front Panel Keyboard, Encoder & ON-OFF by front Panel Push button

### 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

### Heart Rate

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

### Recorder

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 10sec ECG through paddle
Print Annotates in Defib Mode	: Time, Date, Mode, Lead name, Gain, Sweep speed
ECG in Monitor Mode	: Prints last 10 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

### AED Mode OPTIONAL

Wave form	: Biphasic
AED Shock Series	: Energy level from 150 to 200J
Charge Command	: Automatic after identifying arrhythmia
Shock Command	: front panel button, shock
Charging Time	: Less than 8 Sec
Controls	: Analyze, Pause
Defibrillation Electrode	: Malfunction, Self adhesive, adult electrodes
Voice and Text prompts	: Voice and text prompts to guide user

### PACER OPTIONAL

Wave form	: Monophasic
Modes	: Demand or Non Demand
Amplitude	: From 10mA to 150 mA (resolution of 10 mA),
Pulse Width	: 40 ms (+/- 1ms)
Frequency	: 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	: 200ohm to 1 k ohm

### SpO2 OPTIONAL

Range	: 0 - 100%.
Accuracy	: 70 - 100% +/-2% , 50 - 69% +/-3 %.
Pulse rate	: displayed when HR is deselected.
Pulse beep	: Stepless volume control.
PR Range	: 10 to 250 bpm
Pitch variation with change in oxygen saturation.	

### NIBP OPTIONAL

Method	: Oscillometric.
NIBP interval	: User selectable - 3 min to 120 min
Modes	: Manual, auto.
Cuff deflation	: Automatic.
Safety features	: Automatic deflation if cuff pressure exceeds 280 mmHg
Range	: 10 - 250 mmHg
NIBP Status	: "Ready"- when not taking reading "Measuring"-when taking reading "Error"- if reading could not be taken due to some error while measuring
Patient Type	: Adult, Pediatric, Neonate

### Power Supply

Input	: 150 - 270 VAC, 50 Hz, 1 Ø
Battery	: 12 V 4.5Ah, Rechargeable
Battery capacity	: 3hours for monitor & 70-100 shocks on single 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

# Defibrillator Monitor



Marketed & Service by :

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Healthcare

Corporate office

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Authorised Representative



NOTE : specification subject to change without prior notice

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**MEDI+ON**  
Healthcare

# Biphasic Defibrillator - Monitor

Defibrillator + ECG + Recorder + SPO<sub>2</sub> (optional) + NIBP (optional)  
+ Pacemaker (optional) + AED (optional)

Cardiomax biphasic defibrillator monitor is a new generation design with the highest technology offering advanced characteristics of versatility, ergonomics, design, mobility and ease of use.



And, being a medical product, you know: it has better cost-benefit, guarantee of total technical support and can be configured exactly as your needs.

The biggest advantage is the various options packed in only one design. ergonomics, design, mobility and ease of use.



**More versatile multifunctional paddles.**  
Easy to use adults and pediatric paddles integrated in one piece.

## Cardiomax: a new generation design developed with the highest standards of technology, quality and functionality.



cardiomax

### Features

- Modern design, robust and intelligent, ideal for hard emergency removals
- Active matrix color display with and perfect ample visualization of all the information and waveforms.
- Lightweight-only 6kg (with battery and paddles), small and compact, with designed handle for transport
- Easy operation- 1, 2, 3 pattern.
- Fast and easy battery changing, without opening the equipment
- Biphasic shock delivery up to 360 joules, (optional) ECG and SpO<sub>2</sub> (optional), NIBP (optional), external pacemaker(optional)
- 70~100 shocks delivery
- Inbuilt recorder

**A new generation of interfaces: clean, elegant and intuitive design, that offers an intelligent and dynamic visualization allowing the fastest interpretation.**