

Monitor Defibrillator



CARDIO**MAX**

MEDiON
Healthcare

Biphasic Monitor-Defibrillator

Defibrillator + ECG + SPO₂ (optional) + NIBP (optional)
+ Pacemaker (optional) + AED (optional)

New CardioMax biphasic monitor defibrillator line: a new medical equipment generation with the highest technology.

Cardiomax represents a new level to the sector. Advanced characteristics of versatility, ergonomics, design, mobility and easy-use, makes it the biggest package of advantages in only one device.

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



More versatility: multifunctional paddles, adults and pediatric, easy to use. Integrated in one piece, with bargraph, displays the contact with skin and buttons of shock and charge.

Cardiomax: a new equipment generation developed for the highest requirements of technology, quality and functionality.



- Modern design, robust and intelligent, ideal for hard emergency removals.
- Lightweight – only 6kg (with battery and paddles), small and compact, with designed handle for transport.
- Fast and easy battery changing, without opening the equipment.
- 60 shocks delivery

- Active matrix color display with and perfect ample visualization of all the information and waveforms.
- Easy operation – 1, 2, 3 pattern.
- Biphasic shock in up to 360 joules, ECG and SpO₂ (optional), NIBP (optional), external pacemaker (optional) and cardioversion.
- Recorder (inbuilt).

CARDIOMAX



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



TECHNICAL INFORMATION

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.

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

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

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

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)

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

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 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

Marketed & Service by :



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NOTE : specification subject to change without prior notice