

# CARDIOPLUS®

## Multi-para Monophasic Defibrillator



### Features

- Convenient reliable touch key controls
- 6" LCD monitor for 8 Secs. ECG, HR & alarm limits display
- Integrated pediatric paddles
- Digital display of Heart Rate, Stored and Delivered Energy
- Sync and manual defibrillation facility
- Instant ECG pick up from paddles
- Auto recording on defibrillation
- Light weight, portable and rugged defibrillator with :
  - Delayed ECG recording facility
  - Microprocessor based system
  - 7 lead selection of ECG
- Upgradable to SpO<sub>2</sub> & NIBP
- Connectivity to Central Monitor
- Built-in thermal array recorder (Optional)



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## General

Defibrillator cum Monitor  
 Dimensions : 371 x 311 x 199 mm  
 Weight : 9.8 Kgs.  
 Display : High resolution graphic LCD with backlight  
 Display size : 120 mm x 90 mm  
 Sweep speeds : 25 mm/sec or 50 mm/sec  
 Displayed waveforms : ECG and Plethysmogram  
 Waveform freeze with 8 sec ECG strip storage  
 Encoder for easy menu selection  
 Mains voltage range : 190 to 260 VAC @ 50 Hz  
 Mains / Battery charge indication on LCD  
 Operating temperature : +10 to 40° C

## Battery

Battery : 12 V, 4.5 AH  
 Charging time : 12 hrs  
 Operating time on fully charged battery :  
 - Monitor mode - 8 hrs or 60 defibrillator discharges of 360J  
 Auto shutdown on low battery charge

## Defibrillator

Charging time : 8 secs for charging to 360J  
 Energy selection : 5, 10, 25, 50, 100, 200, 300, 360J  
 Energy display : Selected Energy, Delivered Energy  
 Synchronizer : Sync marker display on R-wave  
 Waveform type : Monophasic  
 Defib test : Measurement of energy delivered across an internal 50 ohm resistor  
 Internal Safety discharge interval : 20 secs after full charge  
 Encoder for Defib / Monitor Mode, Energy selection, ECG Sync / Manual settings, Print, Freeze and Alarm Mute

## ECG Amplifier

ECG Leads : Lead 1, 2, 3 aVR, aVL, aVF and V (User selectable)  
 All leads are defibrillation and electrosurgery protected  
 Gain selection : 2.5, 5, 10 or 20 mm per mV  
 CMRR : >80 dB  
 Isolation : >5 KV  
 Frequency response : 0.5 to 40 Hz (Patient Monitor mode)  
 1 to 40 Hz (Paddle ECG)  
 Paddle ECG : Automatic switch to Paddle ECG when ECG cable is disconnected  
 Lead Off Indication : Yes  
 Patient leakage : <10 µA  
 Recovery time : <5 secs  
 Heart rate : 30 to 240 bpm

## Alarms

Acoustic and visual alarms are available for all parameters  
 Alarms can be enabled / disabled independently for each parameter  
 Alarm mute interval : 2 minutes  
 Alarm volume settings : Full, High, Low, Off  
 Facility to auto print on alarm

## Trends

Duration : 24 hrs trend  
 Zoom slot : 3 hrs

## SpO<sub>2</sub> (Optional)

Patient connection : Fully floating  
 Isolation : >5 KV  
 Signal strength indication : Yes  
 Sampling frequency : 60 Hz  
 Range : 0 to 100%  
 Accuracy : +/- 2% at 70 to 100%  
 Pulse rate : 30 to 240 bpm  
 Plethysmogram : Auto-gained for highest resolution  
 Messages : Finger Off, Probe Off  
 Pulse beep with tone dependant on SpO<sub>2</sub> value

## NiBP (Optional)

Measurement principle : Oscillometric  
 Measurement range : 20 to 250 mmHg  
 Measurement modes : Auto (programmable interval), Manual, Prompt, Stat  
 Patient modes : Adult / Neonate with selectable initial inflation pressure  
 Message : Error in BP measurement, Air leak, Cannot set BP inflation pressure, Check cuff, Weak BP signal, Cannot start BP measurement

## Recorder (Optional)

Type : Thermal array recorder  
 Paper width : 80 mm  
 Paper pack : 200 sheets of Z-fold paper  
 Printing formats : Online 8 sec ECG strip, Stored ECG strips, Trend Graphs, 8 sec ECG strip on defibrillation, Manual print

## Standard accessories

- 5 lead Patient Cable - 1
- Mains Cable (2 mts) - 1
- Reusable Electrodes - 5
- Jelly bottle (100 ml)- 1
- User Manual - 1
- Sticker for Electrodes - 50
- Chest Electrode with bulb- 1
- Warranty Card - 1

## Facility Certification

ISO : 9001 : 2008  
 ISO : 13485 : 2003

Accessories shown are not part of standard configuration\* All registered trademarks acknowledged.

Technical data are subject to change without notice

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# SCHILLER

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