

HSP 360-B

Biphasic Defibrillator

hospi

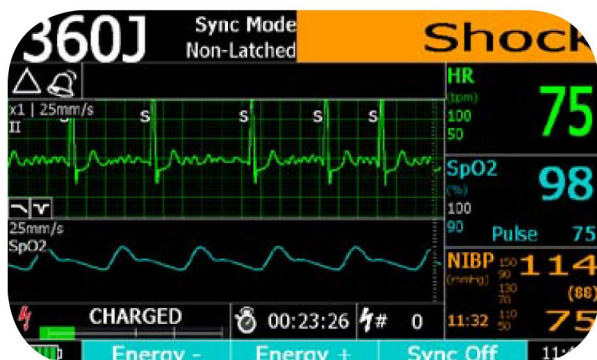


- 360 J biphasic
- 2.7 sec charging time
- AED mode
- Pacer
- 7-channel ECG
- Bag



Seconds for life

Cardio-Aid™ 360-B biphasic defibrillator integrates state-of-the-art technologies which make quick lifesaving possible.



STAR™ biphasic waveform

The main goal of designing STAR™ (Self-Tracking Active Response) biphasic waveform was to optimize energy delivery. Maximal energy accuracy is guaranteed by the system under any circumstances, which ensures the most effective therapy for all patients.

360 Joule

Cardio-Aid™ 360-B delivers a biphasic shock even at 360 J energy level if it is necessary.

2.7 sec typical charging time*

The exceptionally short charging time ensures the quickest possible intervention, increasing the chance for survival.

AED mode

The user is guided by clear screen and voice commands through the resuscitation procedure according to the latest ERC guidelines. Safe and simple operation minimizes the chance of mistakes from user's side, after receiving a brief training.

VF detector

The applied VF/VT detector guarantees quick and reliable detection of patient arrhythmia both in AED and in manual modes.

**200 J second shock*

Cardioversion

Using the latest technologies, the delay of detection is minimized, therefore the reliability of cardioversion therapy is guaranteed.

Impedance measurement

Patient's safety and efficiency of the therapy is achieved by the continuous monitoring of patient's chest impedance. The current patient impedance is displayed on the screen on a bargraph, and a voice message also warns the user in case of insufficient contact.

Transcutaneous pacer

For quick intervention, not only disposable electrodes but also multifunctional defibrillation paddle-electrodes can be used during the application of external pacer therapy.

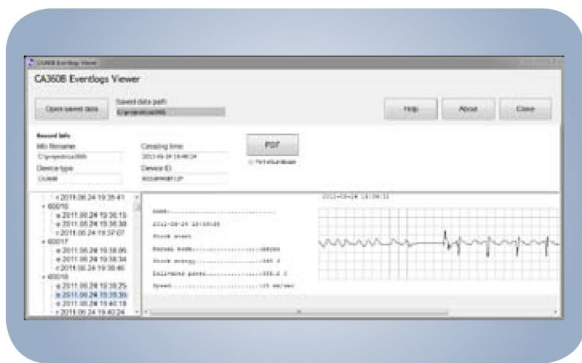
12-channel ECG*

DSP technology based ECG helps the doctor with accurate information before and after intervention. Simultaneous, real 12-channel (optional with 10-Lead ECG) diagnostic quality ECG with pacemaker detection ensures the appropriate monitoring of patients even with implanted pacemaker.

Intelligent energy management

The intelligent battery management always gives adequate information on the status of the battery. The power consumption of the device has been optimised, ensuring significantly increased running on battery. Even in case of missing or flat battery, all functions of the device can be operated from mains.





Event storage and printing

The event storage system is capable of storing practically unlimited number of events, which can be printed out online or offline, or even exported to a USB drive. PDF report also can be created on PC from the exported data. Automatic printing is also possible for several events.

Multifunctionality (optional)

Cardio-Aid™ 360-B defibrillator is dedicated to clinical and hospital use. Due to its easy handling and high-level services, both experienced personnel and laymen can use it fast and effectively.

The reliable SunTech® NIBP module built in the device measures patient's blood-pressure in a fast and accurate way.

Precise oxygen saturation measurement is guaranteed by Nellcor™ pulseoxymeter technology.

The Philips Respironics CAPNOSTAT® and LoFlo™ capnograph modules provide reliable main- and sidestream CO₂ monitoring.

ALL-IN-HAND™ simple handling

The multifunctional external paddle-electrodes are equipped with ergonomic setting keys. Energy level can be set, charging and shock delivery can be started from paddle-electrodes. Together with the voice messages, it allows the user to perform critical interventions, without touching or looking at the device. Paddles can be transformed to paediatric with a simple twist.

Design

Ergonomically designed housing provides comfortable portability.

Alarm system

The alarm system of the defibrillator is able to generate technical and physiological alarms. If any measured parameter exceeds the previously set alarm limits, or any sensor problem occurs, the device gives fully configurable visual and audible alarms and stores the event as well.

Multi-language

Cardio-Aid™ 200-B and 360-B defibrillator is available in different language configurations. Flexible expansion of language range: display messages, labels, manuals and voice prompts.



Physical

Dimensions 360x280x250 mm

Environmental

IP Rating IP32
Operating Temperature 0...45 °C
Storage Temperature -20...+60 °C
Humidity 30%...95% (without condensation)

Display

Dimensions 7" (177.7 mm) diagonal, active area 152.4 x 91.4 mm
Type Color WVGA TFT LCD, LED backlight, adjustable brightness
Resolution 800 x 480 x 3 pixels
Viewing angle 170 degrees left/right and up/down
ECG window 4.4 sec at 25 mm/sec

Mains Power Supply

Type Built-In
Voltage 90...240 V
Current Max. 1.2 A
Frequency 47...63 Hz AC
Power Factor 0.97 with Power Factor Correction

Battery

Type Ni-MH 10.8V 3000mAh
Dimensions 70 x 60 x 90 mm
Weight 620 g
Capacity More than 5 hours continuous monitoring or 200 shocks at 200J
Indicator 5-stage indicator on screen and LED indicator when turned off
Charge time Less than 2 hours for full charge

Defibrillator

Mode AED, manual and synchronized
Defi electrodes Paddles, Pads and Internal electrodes
Waveform STAR™ Biphasic Truncated Exponential
Energy for external defibrillation 2..360 J in 15 steps
Energy for internal defibrillation 1..50 J in 15 steps
Energy Selection From paddles or front panel buttons, programmable for AED
Charge Time 2.7 sec to 200 J, 4.5 sec to 360 J
Energy Availability Automatic disarm after 30 sec
Patient Impedance Range 15..200 ohms with indicator
Sync Time 40 msec typ.

Pacemaker

Mode Demand Fixed Rate
Type Transthoracic non-invasive
Waveform Rectilinear, constant current
Pulse Width 40 msec
Current Amplitude 0 and 20..200 mA, 1 mA resolution
Rate 30..200 ppm, 1 ppm resolution
Patient Impedance Range 0..1000 ohms with indicator

ECG

Source Pads/Paddles, 3-, 5-, and 10-lead cables and EXT ECG cable
Number of leads 7 leads simultaneously (5-leads ecg cable)
Number of displayed ECG waves 7 (12 leads and 1 rhythm optional)
Gain 2.5, 5, 10, 20 mm/mV and Auto
Speed 5, 10, 25, 50 mm/sec
Filters High-pass, mains (50/60 Hz) and adjustable Low-pass filters
Heart Rate Display 15..300 bpm
Alarms HR, Asystole, VF, VT
Pacemaker detection Min. 2 mV 0.25 msec, max. 700 mV 2 msec
Defibrillator protection Max. 400 J
Overload Recovery Time < 3 sec, typ.
Lead-Off detection For all leads

Pulseoxymetry (Optional)

SpO₂ Range 1..100 %
Resolution 1 %
Pulse Rate 20..300 bpm
Alarms For Lower and Upper limits, No Finger and sensor fall-off

Non-Invasive Blood Pressure (Optional)

Method Oscillometric
Range Systolic: 40..260 mmHg, Diastolic: 25..200 mmHg
Displayed values Systolic, Diastolic, Mean, Rate, Time of Last Measurement
Alarms For Lower and Upper limits and cuff fault

Capnography (Optional)

Type Main- and Sidestream
Range 0..150 mmHg (0..19.7 %, or 0..20 kPa)
Resolution 0.1 mmHg
Respiration Rate Display 2..150 rpm
Alarms For Lower and Upper limits and sensor fall-off

Alarm System

Levels 3-level intelligent alarm system
Visual Alarm Multicolor, configurable
Audible Alarm Different sounds, configurable
Automatic Actions Event Storage, Automatic Printout (configurable)

Data Storage

Type Internal memory
Stored events Alarm conditions, manual events, shocks
Capacity 10000 events minimum
Export capability USB drive
Report Browser Software On PC, from exported USB data

Recorder

Type Thermal Strip-Chart Recorder
Paper Width 58 mm
Number of Channels 1 or 3
Modes Online, Stored Waves, Stored Events
12 channel ECG printout Simultaneous, in 3x4 format
Reports Events, Device Information, Date, Time, Modes, Parameters, Patient name
Automatic Printing Configurable for Events, Shocks, Alarms
Gain 2.5, 5, 10, 20 mm/mV
Speed 25, 50 mm/sec

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