



Experience the Effectiveness

BIPHASIC DEFIBRILLATOR

RELIFE 900

POWERED BY

 **MASIMO SET**  SunTech Medical

BPL

Happier Living Everyday



7 inch Colour TFT Screen

Allows the clear and precise display of multiple waveforms and defibrillation parameters



Bi-phasic waveform (Current - Controlled)

The current controlled bi-phasic waveforms lowers the electrical threshold for successful defibrillation, besides adjusting for impedance



High Energy Efficiency

100 charge / discharge of 300J with fully charged new battery



Wide Energy Levels

2-300 J of energy level can be selected for defibrillation by the user



Remote energy selection and charging

Remote energy selection, charging and discharging through paddles facilitate convenient usage



Voice Prompt Support

Continuous voice prompts and on screen messages to aid in revival and resuscitation process



Metronome Signal for CPR Support

Metronome signal for synchronizing chest compression during CPR



Synchronized Cardioversion

Synchronized Cardioversion function is available for providing defibrillation on sync with ECG waveform



24 Events

Memorises always the last 24 Critical Event ECG information which can be viewed or recorded



Patient-Paddle Contact Indication

Patient-Paddle quality of contact is provided on screen

Optional Enhancements*



AED Mode with Selectable Energy Protocols

In Automated External Defibrillator (AED) mode, the shock sequence can be selected based on the requirement



Non-invasive Blood Pressure

Accurate NIBP measurements powered by

 SunTech Medical



Pulse oximetry

Accurate SpO₂ measurements powered by

 Masimo SET



Capnography or External Pacing

Accurate monitoring of ETCO₂ with Masimo Sensor, Option of Mainstream or sidestream

External Transcutaneous Pacemaker with Fixed or Demand Mode

*Optional Enhancements at additional cost



Product Specifications

Manual Defibrillator	
Defibrillator waveform	Current Controlled, Biphasic
Energy selection option	2-300 Joules in steps of 2, 3, 5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 250, 300 Joules
Energy selection control	Selected using keys located on the front panel or on the sternum paddle
Charge control	Control on the front panel and on the apex paddle
Charge ready indication	Charge done LED on the front panel CHARGE key and Charge done LED on the apex paddle
Synchroniser	Energy is delivered within 50 msec of the detected R-wave peak.
Patient impedance	25 – 200 Ohms
AED	
AED mode selection control	Control on the front panel
Shock sequence	Low-Low-Low / Low-Low-High / Low-High-High (User selectable)
Charge ready indication	Onscreen display, voice prompt and blinking LED in the SHOCK key.
Shock delivery control	Control on the front panel with blinking LED
ECG analysis time	< 15 seconds
ECG	
ECG Input modes	ECG input through Paddles or ECG Patient cable
ECG Lead selection	LEAD I / II / III / PADDLES (3 Lead Patient cable) LEAD I / II / III / aVR / aVL / aVF / V / PADDLES (5 Lead Patient cable)
CMRR	>90 dB at 50 Hz
Frequency response	0.5 to 40 Hz
Heart rate display	10 to 300 bpm; Accuracy \pm 2 bpm
User gain settings	8 level setting 2.5, 5, 7.5, 10, 15, 20, 30 and 40 mm/mV
Sweep speed	25 \pm 1 mm/sec
Reset recovery	Automatic recovery of waveform within 0.5 seconds after overload or defibrillation
MASIMO SPO2	
SpO2 Range	1 – 100%
Accuracy	\pm 2% (adult/child, in non-motion state), \pm 3% (adult/child, in motion state) within the measurement range of 70%-100%. 1%-69% is not defined.
Averaging time	2-4 / 4-6 / 8 / 10 / 12 / 14 / 16 Seconds (User selectable)
Resolution	1%
Pulse Rate range	25 – 240 bpm
Perfusion Index resolution	0.01%
SunTech NIBP	
Method	Oscillometric
Operating Modes	Manual, Automatic and Stat

Product Specifications

Blood Pressure Range	
Systolic	Adult: 40 – 250 mmHg Paediatric: 40 – 230 mmHg
Diastolic	Adult: 20 – 200 mmHg Paediatric: 20 – 160 mmHg
MAP	Adult: 26 – 220 mmHg Paediatric: 26 – 183 mmHg
Pressure Transducer Accuracy	± 3 mmHg or 2% of the reading whichever is greater
Cycle Time in Auto mode	1, 2, 3, 5, 10, 15, 30, 60, 90 Minutes (User selectable)
Cycle Time in Stat mode	5 Minutes
MASIMO ETCO2	
Method	Option: Mainstream or Sidestream
CO2 Measurement range	0.0 – 25.0 vol% (0mmHg-190mmHg)
Accuracy	0-15%: ±(0.2 vol% + 2% of reading) 15-25%: not defined
Display unit	Vol% or mmHg
CO2 resolution	1mmHg, 0.1kPa or 0.1%
Respiration rate (awRR)	0 to 150 ± 1 breaths/min
Warm-up time	< 10 seconds
Calibration	Sidestream - An automatic zeroing is performed 1 to 3 times per day. Mainstream - Zeroing recommended when changing Airway adapter.
Dimensions with weight	1.3" x 3.1" x 1.9"; <130 g - Sidestream 1.49" x 1.45" x 1.34"; < 25 g - Mainstream
External Pacing	
Type	External transcutaneous pacemaker
Pacing mode	Fixed or Demand
Waveform	Rectangular pulse
Pulse duration	40 ± 2 msec
Pacing rate	30 to 180 ppm
Output current	0 to 150mA
Refractory period	340 msec between 30 and 80 ppm. 240 msec above 80ppm.
Thermal Recorder	
Paper speed	25 ± 1 mm/sec
Paper size and type	Thermal paper in rolls. 58 mm width, 15 meters
Print channel	1
General	
Display	7" Colour TFT, Resolution 800 x 480
Dimensions	370 mm (W) x 300 mm (H) x 290 mm (D)
Weight	Less than 8.5 Kg. (including battery, external paddles)
Operating temperature range	0 to 40° C at non condensing RH between 15 and 95%
Storage temperature range	-10 to 60° C at non condensing RH between 20 and 80%
AC input	100 – 240 Vac, 50/60 Hz
Power consumption	< 240 VA
Battery type	Sealed Lead Acid 12V, 4.5 AH, Rechargeable
Battery capacity	> 100 discharges of 300 Joules
Battery charging time	Approx. 3 hours to 90% of full capacity. 18 hours to 100% capacity
Event information	Last 24 critical events are stored along with ECG information. Events include MARK key press, Shock delivery and HR Alarm violation.
Trend	Last 200 NIBP measurement data and last 200 Alarm violation information.

*Technical specification subject to change

CERTIFIED ISO 13485 : 2016 COMPANY

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