



Defibrillation	
Impulse shape	Biphasic
Energy in the automatic mode	According to patient impedance
Energy Levels in Manual Mode	1J, 2J, 3J, 4J, 5J, 6J, 7J, 8J, 9J, 10J, 15J, 20J, 30J, 40J, 50J, 75J, 100J, 125J, 150J, 175J, 200J, 300J, 360J
Charge Time	< 6 s for 200 J (For a new, full charged battery at 25 °C), 8 s for 360 J (For a new, full charged battery at 25 °C)
Pacemaker detection	Detect pacer pulses of ± 2 mV to ± 700 mV with pulse widths of 0,1 msec to 2 msec and rise times 10 % of width but not more than 100 μ s
Cardioversion	Manual activation of the cardioversion via the SYNC button, defibrillation via paddles as well as self-adhesive electrodes
Defibrillation electrodes	
Adhesive electrodes	
Shelf life	36 months
Cable length	2,0 m
Activ electroode surface	174 cm ² overall
Paddels	Adult Electrodes with built-in child's electrodes
Functions Paddles	Energy selection and charging / discharging as well as printing of data by operating the paddles
Resuscitation guidelines	
Factory set	Guideline 2010 (ERC / AHA)
ECG	
12-Channel-Leads	Extremities acc. to Einthoven (bipolar) I, II, III, extremities acc. to Goldberger (unipolar) aVR, aVL, aVF , thoracic wall leads acc. to Wilson (unipolar) V1, V2, V3, V4, V5, V6
Heart rate	0,20 to 300 bpm
Analysis time	5 – 9 s
Interpretative algorithm	12-channel interpretation analysis program of Glasgow University
Respiration	
Technology	Impedance measurement via electrodes (Impedance Pneumography) resp. capnography / Nondispersive infrared spectroscopy
Transthoracic pacemaker (NIP)	
Modes	Demand, Async (FIX)
Stimulation frequency	30 ppm to 180 ppm
Impulse current	0 mA to 140 mA
Impulse shape	Rectilinear, Constant current
Pulse oximeter (SpO2)*	
Model	Nellcor ®
Range	1 % to 100 %
Pulse rate	20 – 300 bpm
Accuracy	70% – 100%*
NIBP*	
Operation Mode	Manual and automatic measurement of interval
Technology	Oscillometric Measurement
Measurement Range Adult / Pediatric	SYS 60 to 250 mmHg / MAP 45 to 235 mmHg / DIA 40 to 200 mmHg
Measurement Range Neonatal	SYS 40 to 120 mmHg / MAP 30 to 100 mmHg / DIA 20 to 90 mmHg
IBP*	
Measurement Range	-50 – 300mmHG
Channels	2 parallel connections
Capnography (EtCO2)*	
Type/EtCO2 -Module	Respironics® / Sidestream / Mainstream
Ambient-CO2-level	0 – 150 mmHg
Parameter	EtCO2, InCO2
Temperature*	
Measurement Method	Thermistor, YSI compatible
Range	0 to 50 °C (32.0 to 122 °F)
Monitor	
Model	TFT-LCD color, dual mode
Dimensions	170 x 128 mm (diagonal 8.4"/ 212 mm)
Resolution	800 x 600 Pixel
Number of channels	4 or 12 ECG leads, cascaded can be shown
Integrated Printer	
Model	Thermal print
Channels	12 channels
Paper	Thermal paper folded
Paper Width	80 mm
Printer Speed	25/50 mm/s
Data management	
Memory	12-lead-ECG (100 records) / Event (250 records)
Storage medium	USB memory, SD card
External Interfaces	
USB	For software updates (with external data carrier)
SD Memory Card	For extended memory (for software updates)
Telemetry	3G/GSM, WLAN
Power supply	
AC Power	100V – 240V, 50Hz / 60Hz
Rechargeable battery	Lithium-Ion, 14,4V/ 5200 mAh
Operation time	Up to 10 hours
Number of shocks	200 shocks @ 200 J (1 accu), 400 shocks @ 200 J (2 accus)
Recharging Time	Approx. 5 hours
Dimensions	
Hight x Width x Depth	Approx. 350 mm x 430 mm x 220 mm
Weight	Approx. 7 kg excluding paddles, accessories and energy supply
Accessory	
Standard	Accessory pouches included
Options	
Fixation	Vehicle wall charging station according to Norm EN1789
Ambient conditions	
Protection class	IP55
Operating temperature	0 – 50 °C
Storage temperature	-20 – 70 °C
Rel. humidity	5 – 95 %, non-condensing