BeneHeart D1

Defibrillator

mindray

healthcare within reach

BeneHeart D1

Defibrillator

Physical	
Dimensions:	210mm(w)x286mm(d)x79.5mm(h)
Weight	
Main unit:	Pro: 2.3kg (without battery)
	Public: 2.2kg (without battery)
	Rechargeable battery: 0.50kg
	Disposable battery: 0.40kg
Environment and Physical Requirements	
Water Resistance:	IPX5
Solids Resistance:	IP5X
Temperature:	Operating: 0 to 50ºC
	Storage: -30 to 70ºC
Humidity:	Operating/Storage: 5 to 95 %, non-condensation
Altitude:	Operating/Storage: -381m to +4575m
Shock and Vibration:	Meets MIL-STD-810G, Method 516.6
	Meets MIL-STD-810G, Method 514.6
	Meets the requirements of 6.3.4.2, EN1789 (Medical devices
	for use in road ambulances
Bump:	Meets the requirements of 6.3.4.2, EN1789 (Medical devices
	for use in road ambulances
Free fall:	Meets the requirements of 6.3.4.3, EN1789
	(height of fall: 0.75m)
	Meets the requirements of IEC60068-2-32 (height of fall: 1.5m)
Safety:	Meets EN/IEC 60601-1
Display	
Type:	TFT Color LCD
Dimensions:	7 inch
Resolution:	800x480 pixels
Display Waveforms:	1 channel
Wave viewing Time:	6s
Power	
Rechargeable battery(for Pro)	
Type:	3Ah, 14.8V rechargeable lithium ion battery pack
Number:	1
Charge Time:	Fully charged less than 3 hours, 90% charged less than
	2 hours with the main unit off
Capacity Indicator:	5-segment indicator for fast battery capacity evaluation
Capacity (new fully charged battery): Minimum 300 times 200J discharge or	
	200 times 360J discharge
Disposable Battery (for Public)	
Type:	Li/MnO_2
Number:	1
Capacity (new fully charged battery):	
	Minimum 300 times 200J discharge or 200 times 360J discharge
Shelf Life (prior to insertion):	
	Minimum 5 years from date of manufacture
Standby Life (after insertion):	
	Typically, 4 years
Pads	
Active Surface Area:	12."² (8cm²) each
	6.7"² (43cm²) each
Cable Length:	82.6", +4" (210cm, +10cm)
Use-by Date:	3 years from date of manufacture.
Data storage	
Patient profiles:	Max. 100 patients
Events:	Up to 1000 events
Waveform Storage:	Up to 8 hours of consecutive ECG waveform
VoiceRecording:	Max. 3 hours
Data Export:	Data can be export to PC through USB fash memory
Defibrillator	
Waveform:	Biphasic truncated exponential waveform,
	with impedance compensation
Energy Accuracy:	±2 Jor 15% of setting, whichever is greater, into 50 Ohm.
Shock Delivery:	Via multifunction defib electrode pads
Patient Impedance Range: 25 to 200 Ohm	
Manual Mode (for Pro)	
Output Energy:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 50, 70, 100, 150, 170,
	200, 300, 360J
Charge Time:	Less than 5 seconds to 200J with a new fully charged battery
	Less than 8 seconds to 360J with a new fully charged battery
Synchronous Cardioversion: Energy transfer begins within 60ms of the QRS peak	
AED mode	
Output Energy:	User configurable.
AED Shock Series:	Energy level for adult: 100 to 360 J, configurable
	Energy level for Infant/child: 10 to 100 J, configurable
	Shock series: 1, 2, 3, configurable
	Default configuration meets 2010 AHA Guidelines
Shock Ready Time to the First Shock:(Electrodes are connected to a patient at	
power on and initial rhythm finding is Shock Advised):	
	Less than 10 sec to 200 joules
	Less than 17 sec to 360 joules (Disposable battery for Public)
	Less than 10 sec to 360 joules (Rechargeable battery for Pro)
Sensitivity and Specificity: Meets AAMI DF 80	
ECG Monitoring (for Pro)	
Lead Type:	3 leads ECG, PADS
Lead Selection:	I, II, III, Pads
Heart Rate Display	
Adult:	15 to 300 bpm
Pediatric:	15 to 350 bpm
Resolution:	1 bpm
Arrhythmia Alarms:	Asystole, Shockable Rhythm, Ventricular Tachycardia,
	Ventricular Bradycardia, Extreme Tachycardia, Extreme
	Bradycardia, PVCs Too High, Nonsus. Ventricular Tachycadia,
	Ventrricular Rhythm, PNP, PNC, Tachycardia, Bradycardia,
	RUN, Couplet, Multiform PVC, R ON T, Bigeminy, Trigeminy,
	PVC, Irregular HR
ECG Size:	AUTO, 1.25 mm/mV (×0.125), 2.5 mm/mV(×0.25),
	5 mm/mV(×0.5), 10 mm/mV(×1), 20 mm/mV(×2),
	40 mm/mV(×4)
Sweep Speed:	25 mm/s
Automated and User-activated Self-tests	
Daily Auto Tests:	Test internal circuitry, energy charging/delivery system,
	pads, and battery capacity
Battery-insert/User	
Tests:	Upon battery insertion, extensive auto self-tests and
	user-interactive test check device readiness
Status Indicators:	Blinking green light indicates ready for use. Blinking red light
	indicates or/ and audible beep indicates need for maintenance

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