BeneHeart D1

Defibrillator

Digitally signed by Prodan Sveatoslav
Date: 2021.07.05 16:15:03 EEST
Reason: MoldSign Signature
Location: Moldova

BeneHeart D1

Defibrillator

Physical	
Dimensions:	210 mm (w) x 286 mm (d) x 79.5 mm (h)
Weight:	Main unit (pro): 2.8kg (with a battery)
	Main unit (Pub): 2.7k (with a battery)
	Rechargeable battery: 0..51 kg
	Disposable battery: 0.42 kg
Environmental	
Water Resistance:	IPX5
Solids Resistance:	IP5X
Temperature:	Operating: 0 to 50ºC
	Storage: -30 to 70ºC
Humidity:	Operating/Storage: 0 to 95 %, non-condensation
Altitude:	Operating/Storage: -381 m to +4575 m
Shock and Vibration:	MIL-STD-810G, Method 516.6
	MIL-STD-810G, Method 514.6
	EN1789 (Medical devices for use in road ambulances)
Bump:	EN1789 (Medical devices for use in road ambulances)
Free fall:	EN1789 (height of fall: 0.75m)
	IEC60068-2-32 (height of fall: 1.5 m)
Safety:	EN/IEC 60601-1
Display	
Type:	TFT Color LCD
Dimensions:	7 inch
Resolution:	800 x 480 pixels
Display Waveforms:	1 channel
Wave viewing Time:	6 s
Power	
Rechargeable Battery(for Pro)	
Type:	3000 mAh, 14.8 V rechargeable lithium ion battery pack
Charge Time:	Fully charged less than 3 hours, 90% charged less than
	2 hours
Capacity Indicator:	5-segment indicator for battery capacity evaluation
Capacity (new fully charged battery): Minimum 300 times 200 J discharge or	
	200 times 360 J discharge
Disposable Battery	
Type:	4200mAh, 12V, disposable Li/MnO_2 Battery
Capacity (new fully charged battery):	
	Minimum 300 times 200 J discharge or 200 times 360 J discharge
	(The same to rechargeable battery)
Standby Life:	4 years
Shelf Life:	5 years from date of manufacture
Pads	
Active Surface Area:	12.8″ (83 cm^2) each (adult)
	6.7″ (43 cm^2) each (pediatric)
Cable Length:	82.6″, +4″ (210 cm, +10 cm)
Use-by Date:	36 months from date of manufacture
Data storage	
Events:	Up to 1000 events
Waveform Storage:	Up to 8 hours of consecutive ECG waveform
VoiceRecording:	Max. 3 hours
Data Export:	Through USB flash memory

Defibrillator	
Waveform:	Biphasic truncated exponential waveform,
	with impedance compensation
Energy Accuracy:	±2J or 15%, whichever is greater,
Shock Delivery:	Via multifunctional defibrillation electrode pads
Patient Impedance:	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, 360 J
Charge Time:	Less than 5 seconds to 200 J with a new fully charged battery
	Less than 8 seconds to 360 J with a new fully charged battery
Synchronous Cardioversion: Energy transfer begins within 60ms after the QRS peak	
AED Mode	
Output energy:	User configurable
AED shock series:	Energy level for adult: 100 to 360 J, configurable
	Energy level for pediatric: 10 to 100 J, configurable
	Shock series: 1, 2, 3, configurable
	Default configuration meets 2015 AHA/ERC Guidelines
Energy Default:	200J, 300J, 360J(Adult); 50J, 70J, 100J(Pediatric)
Quick shock:	Typically analyzes and charges in <8 seconds from the end of
	"Stop CPR" prompt
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, RONT, Bigeminy, Trigeminy,
	PVC, Irregular HR(I, II, III Lead)
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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P/N:ENG-BeneHeart D1-210285X2P-20190418

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