

**mindray**

# BeneHeart D1

Defibrillator



# BeneHeart D1

## Defibrillator

<b>Physical</b>	
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
<b>Environmental</b>	
Water Resistance:	IPX5
Solids Resistance:	IP5X
Temperature:	Operating: 0 to 50°C
	Storage: -30 to 70°C
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
<b>Display</b>	
Type:	TFT Color LCD
Dimensions:	7 inch
Resolution:	800 x 480 pixels
Display Waveforms:	1 channel
Wave viewing Time:	6 s
<b>Power</b>	
<b>Rechargeable Battery( for Pro)</b>	
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
<b>Disposable Battery</b>	
Type:	4200mAh, 12V, disposable Li/MnO <sub>2</sub> 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
<b>Pads</b>	
Active Surface Area:	12.8" (83 cm <sup>2</sup> ) each (adult)
	6.7" (43 cm <sup>2</sup> ) each (pediatric)
Cable Length:	82.6", +4" (210 cm, +10 cm)
Use-by Date:	36 months from date of manufacture
<b>Data storage</b>	
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

<b>Defibrillator</b>	
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
<b>Manual Mode ( for Pro )</b>	
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
<b>AED Mode</b>	
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
<b>ECG Monitoring ( for Pro )</b>	
Lead Type:	3 leads ECG, PADS
Lead Selection:	I, II, III, Pads
<b>Heart Rate Display</b>	
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 Tachycardia, Ventricular 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 (x0.125), 2.5 mm/mV(x0.25), 5 mm/mV(x0.5), 10 mm/mV(x1), 20 mm/mV(x2), 40 mm/mV(x4)
Sweep Speed:	25 mm/s
<b>Automated and User-activated Self-tests</b>	
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

www.mindray.com

P/N:ENG-BeneHeart D1-210285X2P-20190418

©2018 Shenzhen Mindray Bio-Medical Electronics Co.,Ltd. All rights reserved.

**mindray**  
healthcare within reach