

Zero adjustment range:	±200 mmhg
Resolution:	1 mmhg
Sensitivity:	5 µV/V/mmHg
Measurement range:	-50 mmHg to 360 mmHg

BeneHeart D6

Defibrillator / Monitor



Technical Specifications

Physical

Dimensions:	Without external paddles: 295mm (w) × 218 mm (d) × 279 mm (h)
	With external paddles: 295 mm (w) × 218 mm (d) × 323 mm (h)

Weight

Main unit:	5.5 kg
Battery package (each):	0.57 kg
External paddle set:	0.86 kg

Environmental and Physical Requirements

Water Resistance:	IPX4 (without external power)
Solids Resistance:	IP4X
Temperature:	Operating: 0 to 45 °C (Microstream CO : 0 to 40 °C; Sidestream CO : 5 to 35 °C) (at least 60 minutes of working time when the temperature reduces from room temperature to – 20 °C)
Humidity:	Operating / Storage: 10 to 95%.non-condensation
Altitude:	Operating / Storage: -381m to +4575 m
Shock and Vibration:	Comply the requirements of 21.102, ISO9919 (Shock and vibration for transport)
Bump:	Comply the requirements of 6.3.4.2, EN1789 (Medical devices for use in roadambulances)
Free fall:	Comply the requirements of 6.3.4.3, EN1789 (Height of fall: 0.75 m)
EMC:	Comply IEC60601-1-2
Safety:	Comply EN/IEC 60601-1

Display

Type:	TFT Color LCD
Dimensions:	8.4 inch
Resolution:	800×600 pixels
Display Waveforms:	Max. 4 channels
Wave Viewing Time:	Max. 16 s (ECG)

Power

AC Power

Line voltage:	100 to 240 V~ (±10%)
Current:	1.8 to 0.8 A
Frequency:	50/60 Hz (±3 Hz)

DC Power (through DC-AC Inverter)

Input voltage:	12 VDC
Power Consumption:	190 W

Battery

Type:	15.1V, 5600mAh, rechargeable lithium ion battery pack
Number:	Max. 2
Charge time:	Less than 3 hours to 90% and less than 4 hours to 100% with equipment power off
Capacity Indicator:	5-segment led indicator for fast battery capacity evaluation
Capacity (Two new, fully charged battery):	

Monitoring Mode: 12 hours, configured with 5-lead ECG, Resp, SpO₂, 2-channel temp, CO and NIBP measurements set at an interval of 15 minutes. WI-Fi is disabled. The screen brightness is set to the factory default without recording



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P/N:ENG-BeneHeart D6 datasheet-210285x4P-20180402

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Defib Mode: 400 times, 360J discharge at intervals of 1minute without recording	
Pacing Mode: 9 hours, 50 Ohm load impedance, Pacing rate: 80bpm, Pacing output: 60mA	
Recorder	
Method:	High-resolution thermal dot array
Waveforms:	Max. 4 channels
Speed:	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
Paper width:	50 mm, 80mm
Reports:	The following can be recorded: Real-time waveforms, frozen waveforms, tabular trends, 12-lead, user test, auto test, configuration
Auto Recording:	Charge events, shock events, marked events, auto test report, parameter alarms, ARR alarms, if configured on
Data Storage	
Patient profiles:	Max. 100 patients
Events:	Up to 1000 events for one patient
Waveform Storage:	Up to 24 hours of consecutive ECG waveform
Tabular Trends:	Max. 72 h of all measured parameters; resolution:1 min
Voice recording:	Max. 180 min in total; max. 60 min for each patient
Data Export:	Data can be exported to PC through USB flash memory
Defibrillator	
Waveform:	Biphasic truncated exponential waveform , with impedance compensation
Energy accuracy:	±2 J or 15% of setting, whichever is greater, into 50 Ohm
Power on time:	Less than 2 seconds with a new, fully charged battery
Charge Time:	Less than 3 seconds to 200 Joules with a new, fully charged battery Less than 7 seconds to 360 Joules with a new, fully charged battery
ECG recovery time:	Less than 2.5 seconds
Shock Delivery:	Via multifunction defib electrode pads, or paddles
Patient Impedance Range	25 to 300 Ohm (External defibrillation)
Manual Mode	
Output Energy:	1,2,3,4,5,6,7,8,9,10,15,20,30,50,70,100,150,170,200,300,360 J
Synchronous Cardioversion:	Energy transfer begins within 60ms of the QRS peak Energy transfer begins within 25ms of the External Sync Pulse
AED Mode	
Output Energy:	User configurable
AED Shock Series:	Energy level: 100 to 360 J, configurable Shocks series: 1, 2, 3, configurable Default configuration meets 2015 AHA Guidelines
CPRmode with 1-channel ECG monitoring	
Sensitivity and Specificity:	Meets AAMI DF-80
Noninvasive Pacing	
Waveform:	Monophasic square wave pulse
Pulse Width:	20 ms or 40 ms, ±5%
Refractory period:	200 to 300 ms, ±3% (function of rate)
Pacing Mode:	Demand or fixed
Pacing rate:	30 ppm to 210 ppm , ±1.5%
Pacing output:	0 mA to 200 mA, ±5% or 5mA, whichever is greater
4:1 pacing:	Pacing pulse frequency reduced by factor of 4 when activated
ECG Monitoring	
Lead type:	3 leads ECG, 5 leads ECG ,12 leads ECG
Lead Selection:	3-lead: I, II, III 5-lead: I, II, III, aVR, aVL, aVF, V 12-lead: I, II, III, aVR, aVL, aVF, V1 to V6
Heart Rate Display:	Adult: 15 to 300 bpm

Pediatric: 15 to 350 bpm	
Neonate: 15 to 350 bpm	
Resolution:	1 bpm
Arrhythmia :	Yes
Alarms:	Yes
ECG size:	2.5 mm/mV(×0.25), 5 mm/mV(×0.5), 10 mm/mV(×1), 20 mm/mV(×2), 40 mm/mV(×4), Auto
Sweep speed:	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Patient Isolation (defibrillation proof):	
Type CF: ECG, RESP, SpO ₂ , NIBP, IBP, TEMP	
Type BF: CO	
Respiration	
Method:	Trans-thoracic impedance
Range:	Adult: 0 to 200 rpm Pediatric, neonate: 0 to 200 rpm
Resolution:	1 rpm
SpO₂ Pulse Oximetry	
Mindray SpO₂	
Range:	0 to 100%
Resolution:	1%
PR Range:	20 to 300 bpm
Nellcor SpO₂	
Range:	1 to 100%
Resolution:	1%
PR Range:	20 to 300 bpm.
Temperature	
Parameter:	T1, T2, TD
Range:	0 to 50 °C (32 to 122 °F)
Resolution:	0.1 °C
NIBP	
Operating mode:	Manual, Auto, STAT
Static pressure range:	0 to 300 mmHg
Displayed Pressures:	Systolic, Diastolic, Mean
Cuff inflation pressure(DefAdult):	160±5 mmHg Pediatric: 140±5 mmHg Neonate: 90 ± 5 mmHg
CO₂	
Sidestream CO₂	
Measurement range:	0 to 150 mmHg
Resolution:	1 mmHg
awRR measurement range:	0 to 150 rpm
awRR accuracy:	<60 rpm: ±1 rpm 60 to 150 rpm: ±2 rpm
Microstream CO₂	
Measurement range:	0 to 99 mmHg
Resolution:	1 mmHg
awRR measurement range:	0 to 150 rpm
awRR accuracy:	0 to 70 rpm: ±1 rpm 71 to 120 rpm: ±2 rpm 121 to 150 rpm: ±3 rpm
IBP	
Channels:	2