



BeneHeart D6

Defibrillator / Monitor

IBP	
Channels:	2
Sensor Sensitivity:	5 uV/V/mmHg
Range:	-50 to 300 mmHg
Resolution:	1 mmHg
PR Range:	25 to 350 bpm
Waveform Label:	Art, Ao, FAP, BAP, UAP, PA, CVP, CPP, LAP, RAP, ICP, UVP, P1, P2
CO ₂	
Microstream CO ₂	
Range:	0 to 99 mmHg
Sample flow rate:	50 ml/min
awRR Range:	0 to 150 rpm
Sidestream CO ₂	
Range:	0 to 99 mmHg
Sample flow rate:	70 or 100 ml/min
awRR Range:	0 to 120 rpm

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:	5.6 kg (including ECG/ defibrillator/ pacing/ SpO ₂ / 2 Temp/ Resp)
	Battery package (each): 0.75 kg
	External paddle sets: 0.8 kg

Environmental and Physical Requirements

Water Resistance:	IPX4 (without external power)
Solids Resistance:	IP4X
Temperature:	Operating: 0 to 45 °C (Microstream CO ₂ : 0 to 40 °C; Sidestream CO ₂ : 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 road ambulances)
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:	4.5 Ah, 14.8 V, rechargeable lithium ion battery pack
Number:	Max. 2
Charge time:	2 hours to 90% and 3 hours to 100% with device off
Capacity Indicator:	5-segment led indicator for fast battery capacity evaluation
Capacity (Two new, fully charged battery):	
	Monitoring Mode: ≥10 hours, Without recording, typical ECG monitoring, LCD brightness set to 1

DISTRIBUTOR:



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mindray

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Defib Mode:	200 times, 360J discharge at intervals of 1minute without recording
Pacing Mode:	6 hours, 50 Ohm load impedance, Pacing rate: 80bpm, Pacing output: 60mA
Recorder	
Method:	High-resolution thermal dot array
Waveforms:	Max. 4 channels
Speed:	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/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 minu in total; max. 60 min for each patient
Data Export:	Data can be export to PC through USB flash memory
Defibrillator	
Waveform:	Biphasic truncated exponential waveform (BTE), with impedance compensation
Energy accuracy:	±2 J or 15% of setting, whichever is greater, into 50 Ohm
Charge Time:	Less than 5 seconds to 200 Joules with a new, fully charged battery Less than 8 seconds to 360 Joules with a new, fully charged battery
Shock Delivery:	Via multifunction defib electrode pads, or paddles
Patient Impedance Range:	20 to 200 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 selectable
AED Shock Series:	Energy level: 100 to 360 J, selectable Shocks series: 1, 2, 3, selectable Default configuration meets 2010 AHA Guidelines
Sensitivity and Specificity:	Meets AAMI DF-80
Noninvasive Pacing	
Waveform:	Monophasic square wave pulse
Pulse Width:	20 ms, ±5%
Refractory period:	200 to 300 ms, ±3% (function of rate)
Pacing Mode:	Demand or fixed
Pacing rate:	40 ppm to 170 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, PADS/ PADDLES
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
	Pads/Paddles
Heart Rate Display:	Adult: 15 to 300 bpm Pediatric: 15 to 350 bpm Neonate: 15 to 350 bpm
Resolution:	1 bpm
Arrhymia :	Yes
Alarms:	Yes
ECG size:	2.5 mm/mV(×0.25), 5 mm/mV(×0.5), 10 mm/mV(×1), 20 mm/mV(×2), 40mm/mV(×4)
Sweep speed:	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Patient Isolation (defibrillation proof):	Type CF: ECG, RESP, TEMP, SpO ₂ , NIBP, IBP Type BF: CO ₂ and external defib
Respiration	
Technique:	Trans-thoracic impedance
Range:	Adult: 0 to 120 rpm Pediatric, neonate: 0 to 150 rpm
Resolution:	1 rpm.
SpO₂ Pulse Oximetry	
Mindray SpO ₂	
Range:	0 to 100%
Resolution:	1%
PR Range:	20 to 254 bpm
Masimo SpO ₂	
Range:	1 to 100%
Resolution:	1%
PR Range:	25 to 240 bpm
Nellcor SpO ₂	
Range:	0 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(Default) : Adult:	160±5 mmHg
	Pediatric: 140±5 mmHg
	Neonate: 90 ± 5 mmHg