

# BeneHeart C1A

## Automated External Defibrillator (AED)



Defibrillator			
Operations	Semi-automatic and fully automatic versions	Language button	Optional feature allows the user to switch between max. 3 languages
Waveform	Biphasic Truncated exponential (BTe), with automated voltage and duration compensation for patient impedance	Physical Characteristics	
Range of selected energy	100 to 360 J (adult) 10 to 100 J (child)	Dimension	210 mm (w) x 286 mm (d) x 78 mm (h)
Energy default	200-300-360 J (adult) 50-70-100 J (child) Default configuration meets AHA/ERC Guidelines 2015.	Weight	2.0 kg (including one battery)
Energy accuracy	±2 J or ±10 % of setting, whichever is greater	Environmental	
Power on time	< 2 seconds	Dust/water resistance	IP55
ECG analysis time	< 5 seconds	Temperature	Operating: -5 to 50 °C Short-term storage: -30 to 70 °C for a maximum of 7 days Long-term storage: 15 to 35°C
Charge time	0 seconds (as device is pre-charged during ECG analysis)	Humidity	Operating/storage: 5 to 95 % (non-condensing)
Time from power on to shock ready	< 8 seconds (200J, new battery, 20±5 °C)	Altitude	Operating/storage: -381 m to +4575 m
Mindray shockable rhythm analysis algorithm	Acquires and analyzes the patient's ECG signals to determine whether or not to give a defibrillation shock	Shock	RTCA-DO-160G-2010, Section 7
Sensitivity and specificity	Meets AAMI DF80 specifications and IEC 60601-2-4 specifications	Vibration	IEC60601-1-12,10.1.3, 10.1.4
Patient impedance range	25 to 300 Ω	Bump	MIL-STD-810G-2008, method 514.6, Category 13, Category 14, Category 20, Category 24
User Prompts		Drop	EN13718-1, 4.7.2
User prompts	Voice prompts	EMC	EN1789, 6.3.4.2
CPR coaching	Voice guide		EN13718-1, 4.7.2
	CPR metronome		1.5 m
	CPR real-time feedback <sup>1</sup>		IEC60601-1-2: 2014
CPR protocol	Meets AHA/ERC Guidelines 2015 and/or can be configured locally		EN13718-1, 4.5.7
Controls			IEC 60601-1-12, 11
Lid release/ON-OFF	Controls device power on/off	Battery	
Shock button	Delivers energy when button presses by the user (semi-automatic only)	Type	Lithium manganese dioxide (Li/MnO <sub>2</sub> ), disposable, 4200 mAh
Adult/child mode switch	Switch to child mode for reduced energy and appropriate CPR guidance	Standby life	6 years (at 20±5 °C, performing auto test every week, not in use, not sending self-test report)
		Capacity	5 years (at 20±5 °C, performing auto test every day, not in use, not sending self-test report)
			With new battery at 20±5 °C: ≥ 15 hours of operating times; provides max. 400 shocks @200J (± 3 shocks < 1 minute )
		Replace battery	Min. 10 shocks at 200 J and 30 minutes

**indication** of operating time (at 20±5 °C, typical).

**Weight** 300 g

#### **Electrode Pads**

**Type** Pre-connected, disposable, for adult/child

**Shelf life** 5 years (from date of manufacture)

#### **CPR Sensor<sup>2</sup>**

**Weight** Approximately 180 g (without battery)

**Thickness** 17.5 to 19 mm

#### **Automatic Self-test**

**Auto-test** Daily, weekly, monthly, quarterly

**Status indicator** Visual indicators indicating system readiness

#### **Data Storage**

**Events** Up to 500 events

**Voice recording** Up to 1 hour

**CPR data** Up to 5 hours

**Self-test reports** 1000 records

**Data export** Through USB flash memory

#### **Communications**

**Wireless data** Through 5G/2.4G Wi-Fi or cellular (4G)<sup>3</sup>

**transfer to AED-** network

#### **Alert™ 2.0 system**

<sup>1</sup> Requiring to configure with CPR sensor

<sup>2</sup> For further information about the availability of CPR sensor, please contact with your local sales representatives.

<sup>3</sup> For further information about the availability of 4G data transfer and AED-Alert™

2.0 system, please contact with your local sales representatives.

**www.mindray.com**

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