

# Your ultraportable personal defibrillator

For every home, business and community.

CellAED<sup>®</sup> is the world's first personal defibrillator. Designed to be used by anyone, regardless of medical or first aid experience, CellAED<sup>®</sup> is an affordable, ultraportable defibrillator that is accessible, effective, and easy-to-use in the event of an out-of-hospital cardiac arrest.

Sudden cardiac arrest is a medical emergency that can happen to anyone, anywhere, at any time. Within seconds, a person will collapse, become unresponsive, and stop breathing normally. For each minute CPR and defibrillation is delayed, the chance of survival decreases by 10%.

If you witness a sudden cardiac arrest, it is critical you call emergency services, begin CPR, and apply an automated external defibrillator (AED) as soon as possible.

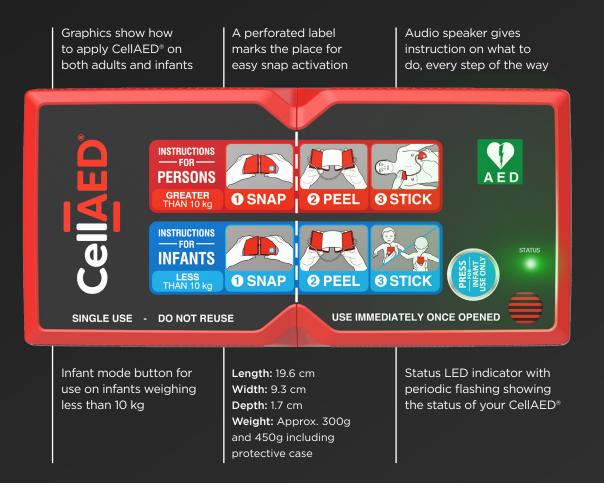
CPR and defibrillation within 3-5 minutes of collapse can produce survival rates as high as 49-75%.





# TIME IS EVERYTHING

# Be prepared and confident to act quickly to save a life. CellAED<sup>®</sup> can be applied in seconds.

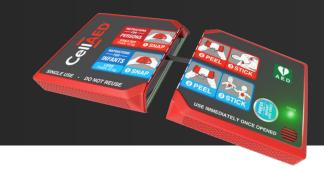








# CellAED<sup>®</sup> Technical Specifications



### **User Interface**

# Fully integrated CellAED<sup>®</sup> includes visual instructions for activation and pad placement, voice prompts and audible tones.

**Power on** Snap CellAED<sup>®</sup> in half along perforated centre line

CellAED® status LED colour indicator:

Periodic flashing green*	Ready for use if your CellAED* is within expiry date. If expired, your device may not function as intended.	
Periodic flashing amber*	Indicates that the battery is low and your CellAED* should be replaced immediately. Until replacement arrives, your CellAED* should still be used in an emergency.	
Steady red	Stand clear, shock about to be delivered.	
No LED	Battery has expired. Replace CellAED® immediately.	

**Audio prompts** Step-by-step audio voice instructions with 16 unique guided messages (75 dBA)

**CPR coaching** 2-minute metronome (beep) guidance

**Infant mode** Button activation for infants weighing less than 10 kg

### **Dimensions**

Stored in a tamper-evident protective outer case until required to open for emergency use. CellAED® is then sealed inside a transparent bag to preserve the functionality of the electrode pads.<sup>+</sup>

Dimensions	CellAED®	CellAED <sup>®</sup> in protective case
Length	19.6 cm	21.2 cm
Width	9.3 cm	11.2 cm
Depth	1.7 cm	2.8 cm
Weight	Approx. 300g	Approx. 450g

## ~~~

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### **Defibrillator Performance**

Patented automated external defibrillator (AED). Detecting shockable rhythms such as VF (ventricular fibrillation) and VT (ventricular tachycardia) and nonshockable rhythms.

**Waveform** Equal leading-edge biphasic exponential waveform

Phase 1 Peak Current Up to 45 Amps

Phase 2 Peak Current Up to 45 Amps

Patient impedence range 25 to 175 Ohms

Time to shock < 50 seconds from power on activation

**Maximum operating time** Up to 20 defibrillation cycles (approximately 45 minutes)

#### ECG Analysis

System exceeding the requirements set by medical regulations including IEC 60601-2-4 and International Liaison Committee on Resuscitation (ILCOR)

#### **Battery**

#### Fully integrated pre-charged battery.

Type Non-rechargeable Lithium

**Battery indicator** Flashing LED system (See *CellAED*<sup>®</sup> *status*)

#### **Electrode Pads**

Fully integrated electrode gel pads on the underside of CellAED<sup>®</sup>.

Material Hydrogel<sup>+</sup>

Dimensions 9 x 9.25 cm

Contact area Total combined area 166 cm<sup>2</sup>

Connection 1 m electrical cable

## **Environmental Specifications**

All performance specifications assume your CellAED<sup>®</sup> has been stored within storage requirements.

Operating temperature 0 to 35°C

**Storage temperature** 15 to 35°C always store your CellAED® within this required temperature range

Transport temperature 0 to 35°C

Altitude -100 m to 4,000 m

Atmospheric pressure 60 kPa to 102 kPa

**Relative humidity** 0 to 95% relative humidity (non-condensing)

Product Expiry 30 months<sup>1</sup>

Ingress protection IP 22<sup>s</sup>

### **Data Communication**

Each CellAED® has a uniquely identified serial number. Through Internet of Things (IoT) capabilities, it can monitor the data from your CellAED® that is captured, stored, and transmitted.<sup>11</sup>

**Type** Internal sim operating on cellular 2G, 3G or LTE Cat-M1 - a category of 4G long-term evolution (LTE) technology for Machines  $(M)^{\parallel}$ 

Monthly monitoring Automatic monitoring CellAED<sup>®</sup> location, ambient temperature and battery voltage

**Event data capture** Heart rhythm analysis, number of defibrillation cycles and whether defibrillation was delivered

**Event data storage** Saved internally on CellAED® and uploaded to secure cloud location via cellular network upon deactivation. To deactivate, stick the pads together with the gel-sides touching until it says "device deactivated".

Currently monitoring features are available for CellAED *for life™* members and subject to cellular connection availability.

\*Flashing approximately every 30 seconds

\*Product may not function as intended if past expiry date or transparent bag is open or removed

<sup>1</sup>CellAED<sup>®</sup> has been designed with a product expiry of 30 months from date of manufacture. Check the back of your CellAED<sup>®</sup> to confirm your product expiry date. If purchased with CellAED *for life*<sup>™</sup> you will receive a replacement device prior to expiry included in your membership fee

<sup>9</sup>When in its protective case it is sealed within an airtight transparent bag, both of which offer additional protection

"Cellular specifications are subject to change and may vary depending on which region you are in

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