

CellAED®



Your handheld, smart, personal defibrillator

For every home, business and community.

CellAED® is designed to save lives from sudden cardiac arrest. An arrest can happen to anyone, anywhere, at any time.

When sudden cardiac arrest happens, your heart stops pumping blood. Within seconds, people experiencing cardiac arrest fall unconscious. At that point, you have only minutes for someone to save your life.

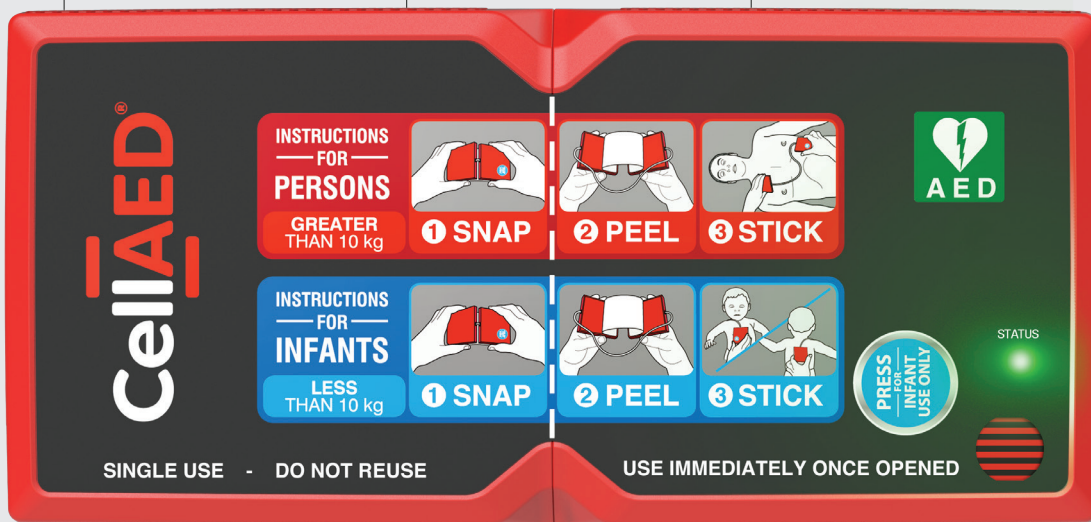
To save you, someone nearby needs to call emergency services, start CPR, and apply an automated external defibrillator (AED). An AED can coach people to provide CPR and provide a small electrical shock to the heart to start it beating normally again. With CellAED®, you can ensure there is always an AED nearby to help save your life, or the life of someone you love, when sudden cardiac arrest happens.

Be prepared and confident to act quickly to save a life. CellAED® can be applied in seconds.

Graphics show how to apply the device on both adults and infants.

A perforated label marks the place for easy snap activation.

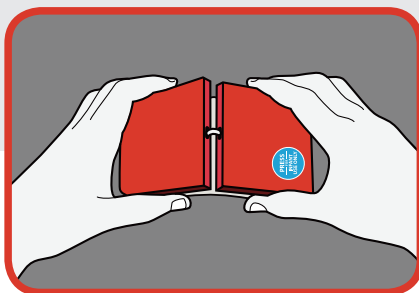
Audio speaker gives instruction on what to do, every step of the way.



Infant mode button for use on infants weighing less than 10 kg.

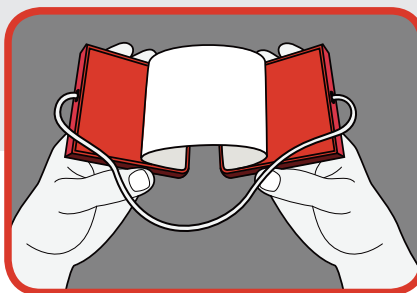
Length: 19.6 cm
Width: 9.3 cm
Depth: 1.7 cm
Weight: Approx. 300 g

LED indicator with periodic blinking showing the status of the device.



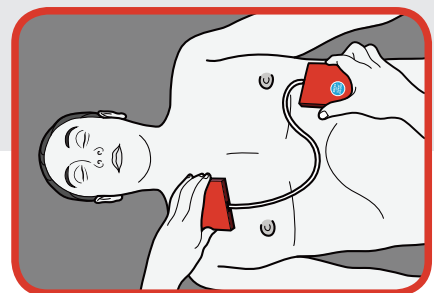
SNAP

Power device by snapping in half along perforated centre line. This will automatically start the audio instructions guiding you on what to do, every step of the way.



PEEL

Remove the protective liner under the device by continuing to separate the two halves. This will expose the integrated gel pads and extend the connecting cable.



STICK

For adults, place each half of the device on the bare chest (as shown). For infants, place one half on the infant's chest and the other half on the infant's back.

CellAED® Technical Specifications



User Interface

Fully integrated device includes visual instructions for activation and pad placement, voice prompts and audible tones.

Power on Snap device in half along perforated centre line

Device status LED colour indicator:

Periodic flashing green*	Ready for use
Periodic flashing amber*	It's time to replace your CellAED®. Delivery of at least 3 shocks when first indicated (approximately 6 minutes)
Steady red	Stand clear, defibrillation will occur
No LED	Battery has expired. Replace CellAED® immediately

*Flashing approximately every 30 seconds

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

Battery

Fully integrated pre-charged battery.

Type Non-rechargeable Lithium

Battery indicator Flashing LED system (See *Device status* above)

Dimensions

Stored in a sealed bag to preserve the life of the product within a tamper-evident case. Not to be opened until event use.

Length 19.6 cm

Width 9.3 cm

Depth 1.7 cm

Weight Approx. 300g and approx. 450g including device case

Defibrillator Performance

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

Electrode Pads

Fully integrated electrode gel pads on the underside of device.

Material Hydrogel

Dimensions 8.86 x 9.34 cm

Contact area Total combined area 165.50 cm²

Connection 1 m electrical cable

Environmental specifications

All performance specifications assume the device 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)

Shelf life 13 months from date of manufacture

Ingress protection IP 22

Data Communication

Internet of Things (IoT) enabled device with the ability to monitor device and capture, store and transmit event data.

Type Internal sim operating on cellular 2G or 3G network

Monthly monitoring Automatic monitoring device 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 device and uploaded to secure cloud location via cellular network upon device deactivation

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