



LIFEPAK CR2 ESSENTIAL



FASTEST TIME TO FIRST SHOCK

For a minimally trained responder, assisting in a cardiac emergency can be intimidating. The LIFEPAK CR2 has simple graphics, audible instructions, and automated features to help users remain focused during an emergency. All the guesswork is removed and lifesaving care begins in just two steps making the CR2 the fastest time to first shock.

- 1** The defibrillator turns on automatically when the lid is opened.



- 2** Electrodes are peeled directly from device and placed on patient.



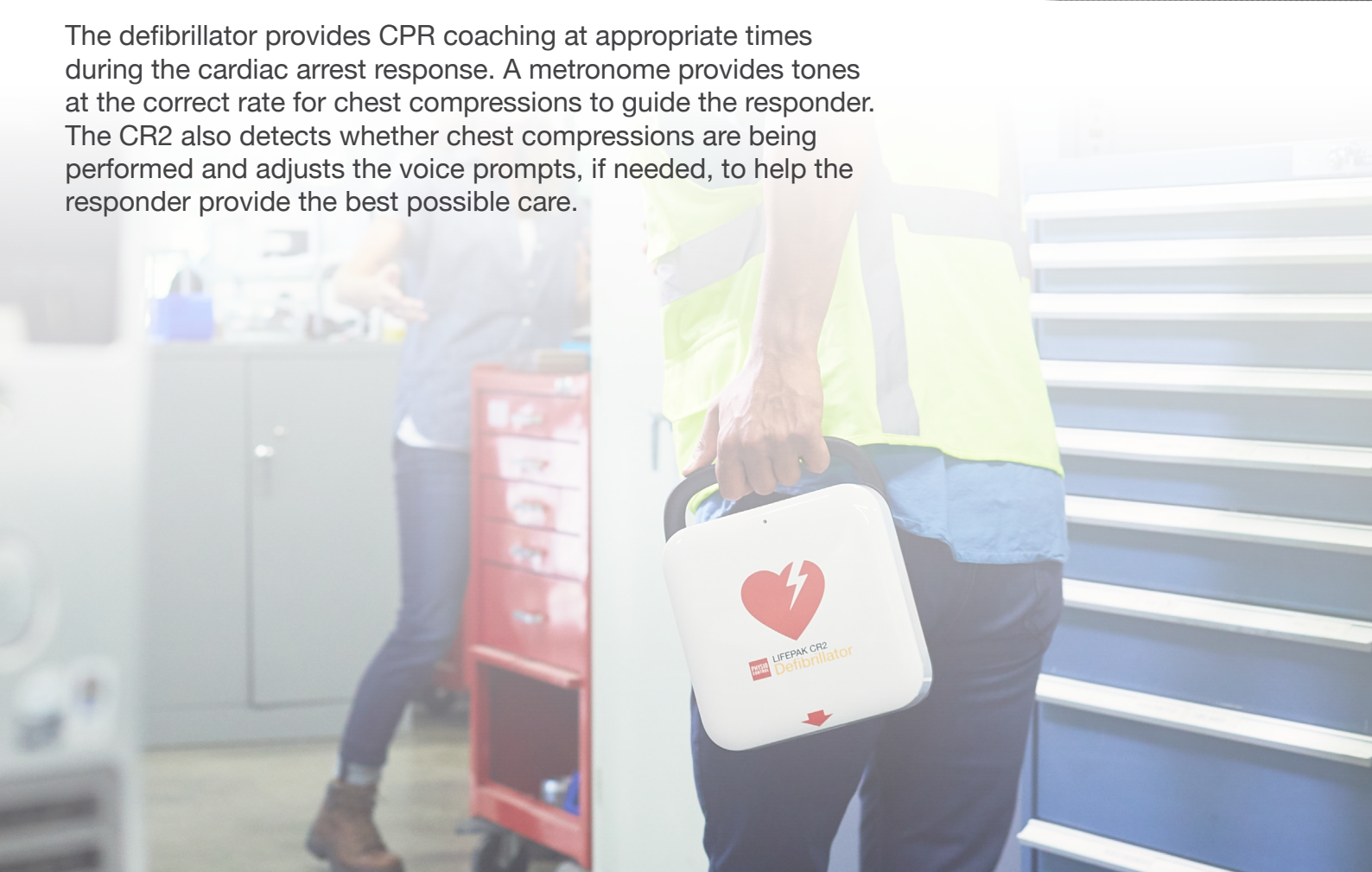
CONTINUOUS HIGH QUALITY CPR INCREASES SURVIVAL RATES

Every sudden cardiac arrest response requires CPR. Every single one. Previously, CPR had to be interrupted for heart rhythm analysis, sometimes requiring rescuers to pause for 10 seconds or more. The LIFEPAK CR2 is the only AED that allows chest compressions during heart rhythm analysis which reduces the pauses between CPR and defibrillation.

Once CPR begins, cprINSIGHT technology automatically analyses and detects if a shock is needed. This significantly reduces pauses in chest compressions, even eliminating pauses if the rhythm is determined to be non-shockable. And more CPR means improved blood circulation and better odds of survival.

cprCOACH

The defibrillator provides CPR coaching at appropriate times during the cardiac arrest response. A metronome provides tones at the correct rate for chest compressions to guide the responder. The CR2 also detects whether chest compressions are being performed and adjusts the voice prompts, if needed, to help the responder provide the best possible care.



DESIGNED FOR USER CONFIDENCE



Layered design with easy-to-follow, bold graphics

Both trained and untrained AED users clearly know how to begin.



QUIK-STEP™ electrodes

Peel directly off the base for faster side-by-side placement.



Metronome and CPR coaching

Sets an effective pace and audibly guides users.



Integrated Child Mode

Toggle to Child Mode for reduced energy and CPR guidance appropriate for children.



ClearVoice™ technology

Detects background noise and adjusts volume for clear instruction.



Highest available energy

200J, 300J, 360J for more effective shocks as needed.



Shock Delivery

Available in fully automatic or semi automatic



LIFEPAK TOUGH™

IP55 rating for challenging environments.



4-Year life on battery and pads

4 years before you have to change batteries or pads.



8-year warranty

Backed by an 8-year warranty.

SPECIFICATIONS

Physical	
With handle, including electrodes and battery:	
Height:	9.7 cm (3.8 in)
Width:	22.6 cm (8.9 in)
Depth:	27.4 cm (10.8 in)
Weight	2.0 kg (4.5 lb)
Defibrillator	
Waveform:	Biphasic Truncated Exponential with voltage and duration compensation for patient impedance.
Patient Impedance Range:	10–300 ohms
Energy Accuracy:	10% of the energy setting into 50 ohms 15% of the rated energy output into 25–175 ohms
Output Energy Sequence:	Multiple levels, configurable from 150 joules to 360 joules.
Energy Default:	200J, 300J, 360J (adult) 50J, 75J, 90J (paediatric)
Shock Advisory System™:	An ECG analysis system that advises whether a shock is appropriate; meets rhythm recognition criteria specified in IEC 60601-2-4.
CPR Coaching:	Instructions for adult and paediatric CPR, including feedback when no CPR is detected, rate and depth guidance, a metronome and instructions on hand placement.
Time to Shock at 360J after CPR:	- Semi-Automatic: < 17 seconds - Fully automatic: < 13 seconds
Charge Time:	0 seconds for first 150J or 200J shock (as device is pre-charged).
Controls	
Lid Release/ON-OFF:	Controls device power.
Shock button, Semi-automatic	Delivers energy when button pressed by the user.
Shock button, Fully Automatic:	Flashes prior to delivering shock without requiring user intervention.
Child Mode Button:	Allows operator to switch to Child Mode for reduced energy and CPR guidance appropriate for children.
Language Button:	Optional feature allows operator to switch between the Primary and Secondary languages for an optional multi- language configuration.
Electrical Protection:	Input protected against high voltage defibrillator pulses per IEC 60601- 1/EN 60601-1.
Safety Classification:	Internally powered equipment. IEC 60601-1/EN 60601-1.

User Interface	
User Interface:	The user interface includes voice prompts and audible tones.
ClearVoice™ Technology:	Volume adjusts automatically based on the noise level of the surrounding environment.
Device Status Indicators:	Visual and audible indicators indicating system readiness (device, pads and battery).
Environmental	
Note:	All performance specifications defined assume the unit has been stored (two hours minimum) at operating temperature prior to operation.
Operating Temperature:	0° to +50°C (+32° to +122°F).
Storage Temperature:	-30° to +60°C (-22° to +140°F) with battery and electrodes, maximum exposure time limited to one week.
Long Term Storage:	Always store the defibrillator within the recommended temperature range of 15° to 35°C (59°to 95°F).
Altitude:	-382 to 4,572 m (-1,253 to 15,000 ft).
Relative Humidity:	5 to 95% (non-condensing).
Water Resistance	IEC 60529/EN 60529 IPX5 with electrodes connected and battery installed.
Dust Resistance:	IEC 60529/EN 60529 IP5X with electrodes connected and battery installed.
Shock:	MIL-STD-810F, Method 516.4, Procedure 1, (40g, 6-9 ms pulse, 1/2 sine each axis).
Vibration:	MIL-STD-810F, Method 514.4, Helicopter –category 6 (3.75 Grms) and Ground Mobile – category 8 (2.85 Grms).
Battery	
Type:	Lithium manganese dioxide (Li/MnO2), 12.0V, 4.7 amp-hours.
Capacity (at 20°C):	Will provide 166 200 joule shocks (with one minute of CPR between shocks) or 103 360 joules shocks (with one minute of CPR between shocks) or 800 minutes of operating time.
Standby life (assuming daily tests only):	A new battery provides device power for 4 years if installed in device that is not used.
Replace battery indication:	At least 6 shocks and 30 minutes of operating time remain when first indicated.
Weight:	0.7 lb (0.3 kg)
Data Storage	
Memory Type:	Internal digital memory (flash RAM).
ECG Storage:	Minimum 60 minutes of ECG stored for two patient episodes.
Communications:	USB

ACCESSORIES



LIFEPAK CR2 Battery



LIFEPAK CR2 Essential Pads



LIFEPAK ECG Lead



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