

Each year sudden cardiac arrest strikes approximately 30,000¹ people in Australia & New Zealand. For every minute defibrillation is delayed the chance of survival decreases by about 10%. Defibrillation is part of the Australian and New Zealand Resuscitation Council Guidelines.

The HeartStart First Aid is designed for use by everyone, at any time, at any location. It is fast to learn, easy to use and always ready. **Ideal for the office, sporting clubs, shopping centres, schools and many other public places.**



- **Fast to Learn:** specifically designed for the lay responder.^{2,3}
- **Easy to Use.**^{2,3}
- **Always Ready** with daily self testing including: system electronics, battery and pads readiness.
- **CPR assistance** for both Adults and Children with clear Australasian Voice Prompts.
- **Quick Shock Capability.**
- **Long Life Battery** that is easy to replace (200 shocks, 4 year standby and 5 year shelf life).
- **Preconnected SMART pads.**

Quick Shock the HeartStart Advantage.

Quick Shock is a unique feature offered only by Laerdal's HeartStart Defibrillator Range. The HeartStart Defibrillator is able to deliver a shock 10 seconds or less after the end of a CPR pause.

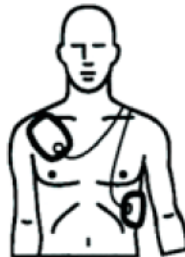
No other automated external defibrillator is able to do this as quickly.

With more than 600,000 units deployed worldwide, more workplaces, organisations and communities place their trust in Philips/Laerdal HeartStart AEDs than any other brand when establishing early defibrillation programs. In Australia and New Zealand this includes Ambulance services, Airlines (QANTAS & Air New Zealand), Life Saving organisations (Royal Life Saving & Surf Life Saving Australia), major airports, schools and corporations.

Easy To Use: Simple as 1, 2, 3



1-Turn ON, follow voice prompts



2-Apply Pads



3-Press to Shock

HEARTSTART DEFIBRILLATORS

Selection of Accessories

With our range of defibrillators we also have a selection of accessories available including defibrillator trainers, carry cases, wall brackets and user DVD's. For more technical information on our defibrillators and details on our accessories please visit www.heartstart.com.au or www.heartstart.co.nz



HeartStart First Aid Trainer with Little Anne Manikin - Trainers are available for all HeartStart Models (except MRx). M5086A



Infant/Child Pads to suit HeartStart First Aid (Pads and Infant/Child Keys also available for FRx and FR2+). M5072A



Standard Carry Case to suit HeartStart First Aid (All HeartStart First Aids sold come free with a Slimline version). 941340



Pelican Case (Waterproof) to suit HeartStart First Aid and FRx. YC



Adult Training Pads to suit HeartStart First Aid. M5073A



HeartStart Wall Box with Alarm. Battery operated alarm with sound and light when door is opened. 941343



Basic AED Cabinet. Battery operated alarm with sound when door is opened. 9898 031 36531



HeartStart Wall Bracket to suit HeartStart First Aid, FRx and FR2+. M3857A

TECHNICAL SPECIFICATIONS

DEFIBRILLATOR

Defibrillator Model	M5067A HeartStart First Aid Defibrillator
Waveform	Truncated Exponential Biphasic. Waveform parameters adjusted as a function of each patient's impedance.
Energy	Single energy output. Adult: nominal 150 Joules into a 50 ohm load. Infant/Child: nominal 50 Joules into a 50 ohm load. Automatically set based on type of SMART Pads cartridge installed.
Shock-to-Shock Cycle Time	Typically less than 20 seconds.
Protocol	Voice prompts and indicators guide user through protocol. Follows preconfigured settings. Can be modified with HeartStart Event Review software.
Voice Instructions	Detailed voice messages guide responder through use of the defibrillator.
CPR Voice Coaching	Voice instructions in adult and infant/child CPR available at user's option.
Shock Delivery	Via adhesive pads placed on patient's bare skin as illustrated on pads.
Controls	Green SMART Pads cartridge handle, Green On/Off button, Blue i-button, Orange shock button.
Indicators	Ready light; Blue i-button; Caution light.

PHYSICAL

Size	
Height	7 cm
Width	21 cm
Depth	19 cm
Weight	
With battery and pads cartridge	1.5 kg
Without battery or pads cartridge	1 kg

ENVIRONMENTAL/PHYSICAL REQUIREMENTS

Sealing	Drip proof per EN60529 class IPX1. Solid Objects per EN60529 class IP2X.
Temperature	Operating: 32° - 122° F (0° - 50° C) Standby: 50° - 109° F (10° - 43° C)
Humidity	Operating: 0% to 95% relative, non-condensing Standby: 0% to 75% relative, non-condensing
Altitude	Operating: 0 to 15,000 feet Standby: 0 to 8,500 feet >48 hours and 8,500 to 15,000 feet <48 hours
Shock/Drop Abuse	Withstands 1 metre drop to any edge, corner or surface.
Vibration	Meets EN1785 random and swept sine, road ambulance specification in operating and standby states.
EMI (Radiated/Immunity)	Meets EN55011 Group 1 Level B Class B and EN61000-4-3.

PATIENT ANALYSIS SYSTEM

Patient Analysis	Evaluates patient ECG and signal quality to determine if a shock is appropriate, and evaluates connection impedance for proper defibrillation pad contact.
Sensitivity/Specificity	Meets AAMI DF39 guidelines and AHA recommendations for adult defibrillation (<i>Circulation</i> 1997;95:1677-1682).
Artifact Detection	The effects of pacemaker artifact and electrical noise are minimised with artifact detection.

BATTERY (M5070A)

Type	9 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell.
Capacity	Minimum 90 shocks or 3 hours of operating time.
Install-By Date	Battery is labelled with an install-by date of at least five years from date of manufacture.
Standby Life	Four years typical when battery is installed by the install-by date. (Will power the AED in standby state within the specified standby temperature range, assuming one battery insertion test and no defibrillation uses.)

SMART PADS

Adult SMART Pads Cartridge	M5071A Defibrillation pads for patients 8 years of age and older or 55 lbs. (25 kg) and over.
Infant/Child SMART Pads Cartridge	M5072A Defibrillation pads for patients under 8 years of age or 55 lbs. (25 kg).
Cable Length	Adult pads: 54 inch (137.1 cm) Infant/Child pads: 40 inch (101.6 cm)
Use-By Date	Cartridge is labelled with a use-by date of at least two years from date of manufacture.

TRAINING PADS

Adult Training Pads Cartridge	M5073A
Infant/Child Training Pads Cartridge	M5074A
Function	Special pads place the HeartStart First Aid into training mode and disable its energy delivery capability. Feature 8 real-world training scripts.

AUTOMATED AND USER-ACTIVATED SELF-TESTS

Daily Automatic Self-tests	Tests internal circuitry, waveform delivery system, pads cartridge and battery capacity.
Pads Integrity Test	Specifically tests readiness-for-use of pads (gel moisture).
Battery Insertion Test	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness.
Status Indicator	Blinking green Ready light indicates ready for use.

DATA RECORDING AND TRANSMISSION

Infrared	Wireless transmission of event data to personal computer using the IrDA protocol.
Data Cable	ACT-IR Datacable for HeartStart First Aid HS1
HeartStart Event Review Software	M3834A Data management software "optional" for download and review of data retrieved through defibrillator's infrared data port.
Data Stored	First 15 minutes of ECG and the entire incident's events and analysis decisions.

Refer to HeartStart First Aid Defibrillator Instructions for Use for detailed product instructions. All specifications based on 25° C unless otherwise noted. The defibrillator and its accessories are made of latex-free materials.