



# HEARTSINE 500P



## DEFIBRILLATION IS EASY, CPR IS THE HARD PART...

Regardless of whether it is a lay person or a professional rescuer, the ANZCOR guidelines place a greater emphasis on the importance of CPR and advocate the prompt initiation of effective bystander CPR to significantly reduce mortality due to out-of-hospital Cardiac Arrest (CA). HeartSine can now provide a device to support these guidelines by the introduction of the **HeartSine samaritan PAD with CPR Advisor model 500P.**

### EASY-TO-FOLLOW GUIDES

**Built-in confidence.** The samaritan PAD 500P uses an Impedance Cardiogram (ICG) to assess the effectiveness of the CPR and give the rescuer feedback on compressions.

**User-friendly.** Easy-to-understand visual and voice prompts guide a user through the entire process.

**Always ready.** A System Status Ready Indicator flashes to show that the complete system is operational and ready for use. The AED also automatically runs a regular self check.

#### Visual LEDs



Push harder/No CPR being performed

Push harder

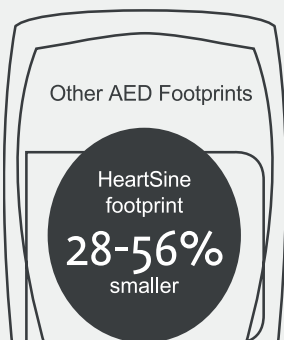
Good Compressions

#### Audio Commands



"Push Faster!"  
"...Push Slower!"  
"...Push Harder!"  
"Good Compressions!"

### COMPACT IN SIZE, BIG ON ABILITY



**Highest level of dust/moisture protection.** The samaritan PAD has a rating of IP56, providing the 500P defibrillator with the highest level of protection from dust or moisture ingress in the industry.

**Durable.** The samaritan PAD 500P resists shock and vibration and comes with a shock-proof carry case free of charge

**Advanced technology.** The samaritan PAD 500P utilizes proprietary electrode technology, advanced and stable firmware, and proprietary SCOPE™\* Biphasic Technology to assess rhythm and recommend defibrillation is necessary.

\*See overleaf for more information



### PAD PAK TECHNOLOGY

#### Low cost of ownership.

Pad Pak cartridge has a shelf life of four years from date of manufacture, offering significant savings over other defibrillators that require separate battery and pad units.



#### Two parts, one expiration date.

Cartridge combines battery and electrode pads, with one expiration date to monitor.

#### Great for children.

The HeartSine PAD's built-in intelligence and unique pediatric Pad-Pak ensure the appropriate energy level is delivered for children.

# TECHNICAL SPECIFICATIONS

## PHYSICAL WITH PAD-PAK™ INSERTED

Size:	20cm x 18.4cm x 4.8cm
Weight:	1.1kg including Pad-Pak battery

## DEFIBRILLATOR

Waveform:	Self-Compensating Output Pulse Envelope (SCOPE) Biphasic waveform. Optimized biphasic escalating waveform compensates energy, slope and envelope for patient impedance
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## PATIENT ANALYSIS SYSTEM

Method:	Evaluates patient's ECG, signal quality, electrode contact integrity and patient impedance to determine if defibrillation is required
Sensitivity/Specificity:	Meets ISO 60601-2-4 and AAMI DF80

## ENVIRONMENTAL

Operating/Standby Temperature:	0°C to 50°C
Temporary Transportation Temperature:	-10°C to 50°C for up to two days. Unit must be returned to standby/operating temperature for 24 hours before use.
Relative Humidity:	5% to 95% (non-condensing)
Water Resistance:	IEC 60529/EN 60529 IP56
Altitude	0 – 4,575 meters
Shock	MIL STD 810F Method 516.5, Procedure I (40 Gs)
Vibration:	MIL STD 810F Method 514.5+, Category 4 Truck Transportation – US Highways, Category 7 Aircraft – Jet 737 & General Aviation (Exposure)
EMC:	EN 60601-1-2
Radiated emissions:	EN55011
Electrostatic Discharge RF Immunity:	EN61000-4-3 80MHZ-2.5GHZ (10 V/m)
Magnetic Field Immunity:	EN61000-4-8 (3 A/m)
Aircraft:	RTCA/DO-160F, Section 21 (Category M)
Drop Tested:	1 metre

## ENERGY SELECTION

Adult:	Shock 1: 150J; Shock 2: 150J; Shock 3: 200J
Paediatric:	Shock 1: 50J; Shock 2: 50J; Shock 3: 50J

## CHARGING TIME

New Battery:	Typically 150J in < 8 seconds, 200J in < 12 seconds
After 6 Discharges:	Typically 150J in < 8 seconds, 200J in < 12 seconds

## EVENT DOCUMENTATION

Type:	Internal Memory
Memory Capacity	90 minutes of ECG (full disclosure) and event/incident recording
Playback capabilities:	Custom USB cable directly connected to PC and Saver™ EVO Windows-based data review software

## MATERIALS USED

Housing	ABS, Santoprene. Printed circuit board with electronic components.
Electrodes	Hydrogel, Silver, Aluminium and Polyester

## PAD PAK - ELECTRODE & BATTERY CARTRIDGE

Shelf Life:	4 years from manufacture date
Weight:	0.2kg
Size:	10 cm x 13.3 cm x 2.4 cm
Battery Type:	Lithium Manganese Dioxide (LiMnO <sub>2</sub> )
Capacity:	> 60 shocks at 200J 18V, 1.5 Amp Hrs
Electrodes:	HeartSine samaritan® disposable defibrillation pads are supplied as standard with each device
Placement:	Anterior-lateral (Adult); Anterior-posterior (Pediatric)
Active Gel Area:	100 cm <sup>2</sup>
Cable Length:	1 metre

