

# HeartSine® samaritan® PAD 350P/360P AEDs

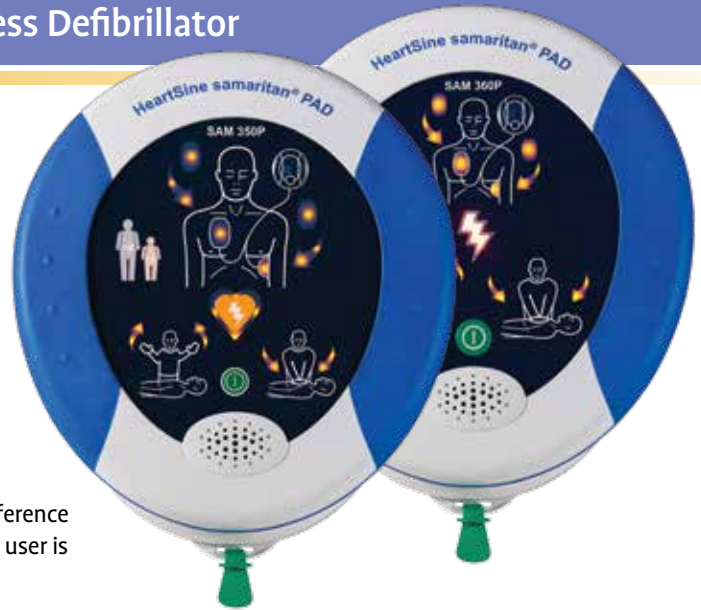
Semi-Automatic/Fully Automatic Public Access Defibrillator

## Compact, Easy-to-Use, Lifesaving Technology for Public Access

Sudden cardiac arrest strikes 7 million people a year worldwide with no warning and no pattern. There's little time to react and even less time to think. This means an Automated External Defibrillator (AED) must be close at hand, easy to use and ready to shock.

The semi-automatic HeartSine samaritan PAD 350P (SAM 350P) and fully automatic HeartSine samaritan PAD 360P (SAM 360P) offer industry-leading value and environmental protection, all in an easy-to-operate system in the smallest and lightest package available.

The fully automatic SAM 360P detects motion or other significant interference to ensure the rhythm is shockable and to reduce the likelihood that the user is touching the patient prior to shock delivery.



## Ready to Shock

**Portable and lightweight.** The HeartSine samaritan PAD is much lighter 1.1 kg and smaller than other defibrillators.

**Highest level of protection against dust and water.** With its IP56 rating, the HeartSine samaritan PAD defibrillator offers unmatched ruggedness.

**Clinically Validated Technology.**<sup>1</sup> The HeartSine samaritan PAD utilizes proprietary electrode technology and SCOPE™ biphasic technology, an escalating, low-energy waveform that automatically adjusts for differences in patient impedance.



## Easy-to-Follow Visual and Verbal Guides

**User-friendly.** Easy-to-understand visual and voice prompts guide the rescuer through the entire resuscitation process, including CPR—a key link in the chain of survival.

**One- and two- button operation.** With just an ON/OFF button (and the SHOCK button on the SAM 350P), the samaritan PAD offers a simple, straightforward operation.

**Automatic Shock Delivery.** After analysing heart rhythm, the samaritan PAD 360P<sup>2</sup> will automatically deliver a shock (if needed), eliminating the need for the rescuer to push a shock button.

**Always ready.** A System Status Ready Indicator flashes to show that the complete system is operational and ready for use. The device automatically runs a self-check each week.



"Apply pads to patient's bare chest as shown in picture"



"Stand clear of the patient"

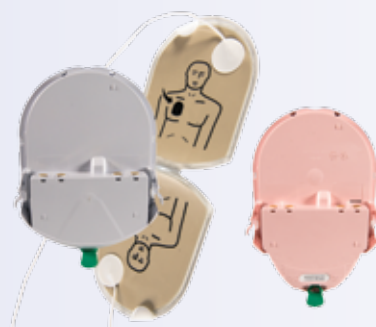


"Safe to touch the patient"

## Simple to Own

**Two parts, one expiration date.** The innovative Pad-Pak™, an integrated battery and electrode single-use cartridge with one expiration date, offers one simple maintenance change every four years.

**Low cost of ownership.** With a shelf life of four years from date of manufacture, the Pad-Pak offers significant savings over other defibrillators that require separate battery and electrode replacements.



**Pad-Pak and Paediatric-Pak™** with pre-attached electrodes.

The HeartSine samaritan PAD's built-in intelligence and unique Paediatric-Pak ensure the appropriate energy level is delivered for children, between 1 and 8 years of age or up to 25 kg (55 lbs).

Physical	With Pad-Pak Inserted
<b>Size:</b>	20 cm x 18.4 cm x 4.8 cm (8.0 in x 7.25 in x 1.9 in)
<b>Weight:</b>	1.1 kg (2.4 lbs)

Defibrillator	
<b>Waveform:</b>	Self-Compensating Output Pulse Envelope (SCOPE™) optimised biphasic escalating waveform compensates energy, slope and duration for patient impedance

Patient Analysis System	
<b>Method:</b>	Evaluates patient's ECG, signal quality, electrode contact integrity and patient impedance to determine if defibrillation is required
<b>Sensitivity/Specificity:</b>	Meets IEC/EN 60601-2-4
<b>Impedance Range:</b>	20 - 230 ohms

Environmental	
<b>Operating/Standby Temperature:</b>	0°C to 50°C (32°F to 122°F)
<b>Transportation Temperature:</b>	-10°C to 50°C (14°F to 122°F) for up to two days. If the device has been stored below 0°C (32°F), it should be returned to an ambient temperature of between 0°C to 50°C (32°F to 122°F) for at least 24 hours before use.
<b>Relative Humidity:</b>	5% to 95% (non-condensing)
<b>Enclosure:</b>	IEC/EN 60529 IP56
<b>Altitude:</b>	0 to 4 575 metres (0 to 15 000 feet)
<b>Shock:</b>	MIL STD 810F Method 516.5, Procedure 1 (40 G's)
<b>Vibration:</b>	MIL STD 810F Method 514.5+, Procedure 1 Category 4 Truck Transportation – US Highways Category 7 Aircraft – Jet 737 & General Aviation
<b>EMC:</b>	IEC/EN 60601-1-2
<b>Radiated Emissions:</b>	IEC/EN 55011
<b>Electrostatic Discharge:</b>	IEC/EN 61000-4-2 (8 kV)
<b>RF Immunity:</b>	IEC/EN 61000-4-3 80 MHz-2.5 GHz, (10 V/m)
<b>Magnetic Field Immunity:</b>	IEC/EN 61000-4-8 (3 A/m)
<b>Aircraft:</b>	RTCA/DO-160G, Section 21 (Category M) RTCA/DO-227 (ETSO-C142a)
<b>Falling Height:</b>	1 metre (3.3 feet)

Energy Selection	
<b>Pad-Pak:</b>	Shock 1: 150J; Shock 2: 150J; Shock 3: 200J
<b>Paediatric-Pak:</b>	Shock 1: 50J; Shock 2: 50J; Shock 3: 50J

Charging Time	
<b>New Battery:</b>	Typically 150J in < 8 seconds, 200J in < 12 seconds

Event Recording	
<b>Type:</b>	Internal Memory
<b>Memory:</b>	90 minutes of ECG (full disclosure) and event/incident recording
<b>Review:</b>	Custom USB data cable (optional) directly connected to PC with Saver EVO™ Windows-based data review software

Materials Used	
<b>Housing:</b>	ABS, Santoprene
<b>Electrodes:</b>	Hydrogel, Silver, Aluminum and Polyester

Pad-Pak — Electrode and Battery Cartridge	
Adult Pad-Pak (Pad-Pak-03) and Paediatric Pad-Pak (Pad-Pak-04) <i>*ETSO-certified aviation Pad-Pak also available</i>	
<b>Shelf Life/Standby Life:</b>	See the expiration date on the Pad-Pak/Paediatric-Pak (4 years from manufacture date)
<b>Weight:</b>	0.2 kg (0.44 lbs)
<b>Size:</b>	10 cm x 13.3 cm x 2.4 cm (3.93 in x 5.24 in x .94 in)
<b>Battery Type:</b>	Disposable single-use combined battery and defibrillation electrode cartridge (lithium manganese dioxide (LiMnO <sub>2</sub> ) 18V)
<b>Battery Capacity (New):</b>	> 60 shocks at 200J or 6 hours of continuous monitoring
<b>Electrodes:</b>	HeartSine samaritan disposable defibrillation pads are supplied as standard with each device
<b>Electrode Placement:</b>	Anterior-lateral (Adult); Anterior-posterior or Anterior-lateral (Paediatric)
<b>Electrode Active Area:</b>	100 cm <sup>2</sup> (15 in <sup>2</sup> )
<b>Electrode Cable Length:</b>	1 metre (3.3 feet)
<b>Aircraft Safety Test (ETSO-certified Pad-Pak):</b>	RTCA/DO-227 (ETSO-C142a)

- Walsh SJ, McClelland A, Owens CG, Allen J, McCanderson J, Turner C, Adgey J. Efficacy of distinct energy delivery protocols comparing two biphasic defibrillators for cardiac arrest. *Am J Cardiol.* 2004;94:378-380.
- Warning: The SAM 360P is a fully automatic defibrillator. When required, it will deliver a shock to the patient WITHOUT user intervention.

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 The HeartSine products described in this brochure meet the European Medical Directive requirement.  
 UL Classified. See complete marking on product.  
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