Defibrillation is easy, CPR is the hard part...

Regardless of whether it is a lay person or a professional rescuer, the AHA/ERC 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 Visual and Verbal 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 self check each week.

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 carries a ten-year unit warranty that demonstrates the reliability of this quality unit. **Advanced technology.** The samaritan PAD 500P utilizes proprietary electrode technology, advanced and stable firmware, and proprietary SCOPE™ Biphasic Technology (an escalating and low-energy waveform that automatically adjusts for patient impedance differences) to assess rhythm and recommend defibrillation if necessary.

Real Economy for the Real World

**Two parts, one expiration date.** Pad-Pak™ cartridge combines battery and electrode pads, with one expiration date to monitor. **Low cost of ownership.** 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.
**Technical Overview**

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

**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

**Energy Selection**
- Adult: Shock 1: 150J; Shock 2: 150J; Shock 3: 200J
- Pediatric: 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

**Environmental**
- Operating/Standby Temperature: 0°C to 50°C (+32°F to +122°F)
- Temporary Transportation Temperature: –10°C to 50°C (14°F to 122°F) 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 (0 to 15,000 feet)
- Shock: MIL STD 810F Method 516.5, Procedure I (40 G’s)
- 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)
- Falling Height: 1 meter (3.3 feet)

**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 – Electrodes: Hydrogel, Silver, Aluminium and Polyester

**Pad-Pak — Electrode and Battery Cartridge**
- Adult Pad-Pak (Pad-Pak-03) and Pediatric Pad-Pak (Pad-Pak-04)
- Shelf Life: 4 years from manufacture date
- Weight: 0.2 kg (0.44 lbs)
- Size: 10 cm x 13.3 cm x 2.4 cm (3.93 in x 5.24 in x .94 in)
- Battery Type: Lithium Manganese Dioxide (LiMnO2)
- 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 cm² (15.5 in²)
- Cable Length: 1 meter (3.3 feet)

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**Lifesaving, Pure and Simple**

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