



HeartSine®

samaritan™ PAD

Public Access Defibrillator

Compact, easy-to-use,
lifesaving technology.

Sudden Cardiac Arrest (SCA) is a leading cause of death globally. Response time is critical for survival. HeartSine's samaritan PAD was designed especially for use in public areas by providing a sophisticated defibrillator for adult or pediatric use, inside a lightweight and easy-to-operate system.

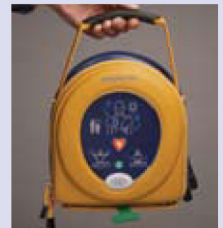
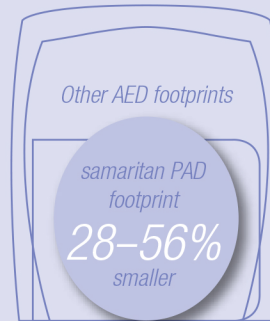


Compact in size, long on ability.

Compact. The samaritan PAD is lighter (2.4 lbs.) and smaller than other defibrillators.

Durable. The samaritan PAD resists shock and vibration and carries an IP56 Rating, the industry's highest rating against dust and water. It can be taken and used virtually anywhere, even in the most inclement conditions. It also carries a 7-year unit warranty.

Advanced technology. SCOPE™** Biphasic technology automatically optimizes energy output for each person, and has been reported to provide significantly better performance in removing ventricular fibrillation (VF) by the third shock.**



2.4 lbs. light.

Easy-to-follow visual and verbal guides.

User-friendly. The samaritan PAD features easy-to-understand visual and oral prompts that guide a user through the process.

Two-button operation. Only two buttons, ON and SHOCK, are required, providing straightforward operation.

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



Visual cues prompt pad placement



Stand clear of the patient



It is safe to touch the patient

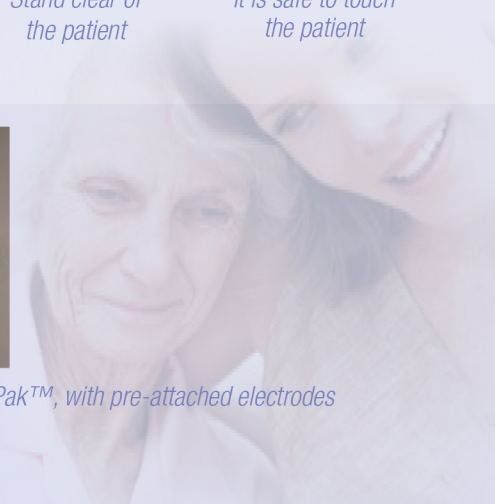
Real economy for the real world.

Two parts, one expiration date. Pad-Pak™ cartridge combines battery and electrode pads, with one expiration date to monitor.

Low cost of ownership. Cartridge typically has a shelf-life of 3.5 years from date of manufacture, offering significant savings over other defibrillators that require separate battery and pad units.



Pad-Pak™ and Pediatric-Pak™, with pre-attached electrodes





Technical Overview

Physical

Size: 8.0 in x 7.25 in x 1.9 in (20cm x 18.4cm x 4.8cm)
Weight: 2.4 lbs (1,1 kg) including Pad-Pak™ Battery

Defibrillator

Waveform: SCOPE® (self-compensating output pulse envelope) Biphasic waveform. Optimized biphasic waveform compensates energy, slope and envelope for patient impedance

Energy Selection

Pre-configured factory settings for escalating energy are AHA/ERC 2005

Adult

1. Shock 150J 2. Shock 150J 3. Shock 200J

Paediatric

1. Shock 50J 2. Shock 50J 3. Shock 50J

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 AAMI DF80:2003 requirements

Environmental

Operating Temperature: 0°C to 50°C (+32°F to +122°F)
Storage Temperature: -10°C to 50°C (+14°F to +122°F)
Relative Humidity: 5% to 95% (non-condensing)
Water Resistance: IEC 60529/EN 60529 IP56
Altitude: 0 to 15,000 feet (0 – 4,575 meters)
Shock: MIL STD 810F Method 516.5, Procedure I (40G'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, Second Edition: 2001

Radiated Emissions: CISPR11: 1997 +1A:1999+A2:2001 Group 1 Class B

Electrostatic Discharge

Immunity: EN61000-4-2:1995 (8KV)+A1:1998+A2:2000

RF Immunity: EN61000-4-3:1996, 80 MHz – 2.5 GHz, (10V/m)+A1:1998+A2:2000

Magnetic Field Immunity: EN61000-4-8:1993 (3 A/m)+A1:2000

Aircraft: RTCA / DO – 160D: 1997, Section 21 (Category M)

Falling height: 1 meter

Event Documentation

Type: Internal memory
Memory Capacity: 45 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

PAD SAM300P: ABS, Santoprene. Printed circuit board with electronic components.

PAD Cartridge: Battery: Lithium Manganese Dioxide
 Housing: ABS – Electrodes: Hydrogel, Silver, Aluminium and Polyester

Combined Electrode and Battery Cartridge

Pad-Pak™

Shelf Life: Check Expiration Date (typically 3.5 years from manufacture)

Weight: 0.44 lbs (0.2kg)

Size: 3.93 in x 5.24 in x .94 in (10cm x 13.3cm x 2.4cm)

Battery

Type: Lithium Manganese Dioxide (LiMnO₂)
 18V, 0.8 Amp Hrs

Capacity: >30 shocks at 200J or 6 hours of continuous monitoring.

Adult Electrodes (Pad-Pak-01)

Standby Life: Typically 3.5 years from manufacture date
Electrodes: Samaritan® disposable defibrillation pads are supplied as standard with each device

Placement: Anterior-lateral

Active Gel Area: 100cm²

Cable Length: 3.5 ft (1m)

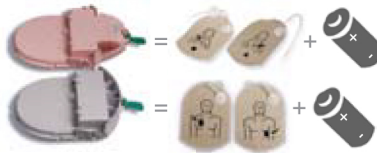
Children Electrodes (Pad-Pak-02)

Standby Life: Typically 3.5 years from manufacture date
Electrodes: Samaritan® disposable defibrillation pads are supplied as standard with each device

Placement: Anterior-Posterior

Active Gel Area: 100cm²

Cable Length: 3.5 ft (1m) cable



*Self Compensating Output Pulse Envelope technology automatically compensates energy, slope and pulse envelope for the patient.

**Efficacy of Distinct Energy Delivery Protocols Comparing Two Biphasic Defibrillators for Cardiac Arrest, Walsh, McClelland, Owens, Anderson, Turner, Adgey; *The American Journal of Cardiology*, Vol. 94, Aug.1, 2004

Corporate Headquarters:

HeartSine Technologies, Inc.
 105 Terry Drive,
 Newtown, PA. 18940
 Tel: (215) 860 8100
 Fax: (215) 860 8192
 Web: heartsine.com

Manufacturing Facilities

HeartSine Technologies, Ltd
 Canberra House, 203 Airport Road West
 Belfast, Northern Ireland BT3 9ED
 Tel: +44 (0) 28 9093 9400
 Fax: +44 (0) 28 9093 9401



The products described in this brochure all meet the applicable European Medical Directive requirements.