

# Pediatric-Pak™

## USER INSTRUCTIONS

For use with samaritan® PAD 350P  
samaritan® PAD 360P  
samaritan® PAD 450P



**CAUTION:** U.S. Federal law restricts this device to sale by or on the order of a licensed practitioner.

## Pediatric-Pak Indications for use

The HeartSine samaritan Pediatric-Pak (Pad-Pak-02) is indicated for use on victims of cardiac arrest who are exhibiting the following signs:

- ▶ Unconscious
- ▶ Not breathing
- ▶ Without circulation

The Pediatric-Pak is indicated for use on children between 1 and 8 years of age or up to 55 lbs (25 kg) when used with the samaritan PAD.

### Contraindications for use


If the patient is responsive or conscious, do not use the Pediatric-Pak to provide treatment.

### Intended users

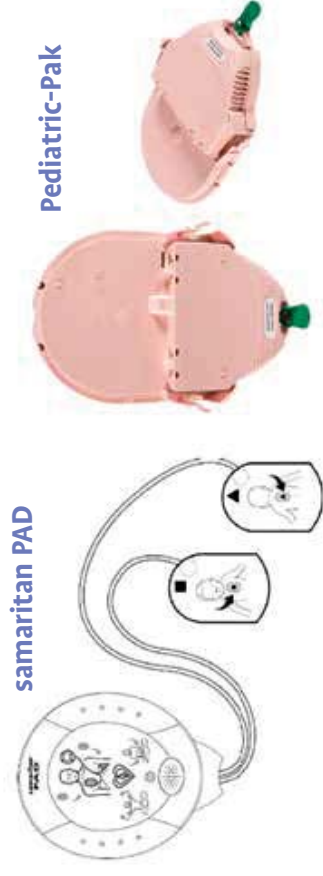
The Pediatric-Pak, in conjunction with the samaritan PAD, is intended for use by personnel who have been trained in its operation. Users should have received training in basic life support / AED, advanced life support or a physician-authorized emergency medical response training program.



### WARNINGS

- ▲ Only samaritan PADs with the label  are suitable for use with the Pediatric-Pak. If the samaritan PAD you are using does not have this label, use the Adult Pad-Pak if no alternatives are available.
- ▲ The use of the Pediatric-Pak will enable delivery of 50 J shocks to the pediatric patient.
- ▲ Not for use on patients under 1 year old. For use with children up to the age of 8 years or up to 55 lbs (25 kg). DO NOT DELAY THERAPY IF YOU ARE NOT SURE OF EXACT AGE OR WEIGHT.
- ▲ Proper placement of the samaritan PAD pads is critical. Strict observance of pad positioning instructions, as indicated on the labeling and in training, is essential. Care must be taken to ensure pads adhere to the patients' skin properly. Air pockets between the adhesive pad and skin must be eliminated. Failure in pad adhesion may hinder effectiveness of therapy or cause excessive skin burns to the patient if a therapeutic shock is applied. Reddening of the skin may appear after use, this is normal.
- ▲ The samaritan Pediatric-Pak is a single use item and must be replaced after the Pediatric Electrode pouch seal has been broken, passed the expiration date or has been compromised in any way. If damage is suspected the Pediatric-Pak must be replaced immediately.
- ▲ This device is intended for use by personnel who have been trained in its operation. Users should have received training in basic life support and use of AEDs, advanced life support, or a physician-authorized emergency medical response training program.
- ▲ Your Pediatric-Pak contains a magnetic component (surface strength 6500 gauss). Avoid storage next to magnetically-sensitive storage media. It is advised that Pediatric-Paks are stored separately when not in use.

## samaritan Pediatric-Pak



### General Information You Should Know About the Pediatric-Pak:

- ▶ Refer to the samaritan PAD User Manual for comprehensive information on how to operate the defibrillator.
- NOTE:** The Pediatric-Pak gives the capability to use the samaritan PAD (Model SAM 350P, SAM 360P and SAM 450P) on children.
- ▶ The Pediatric-Pak should remain in the protective plastic pouch until use.
- ▶ The Pediatric-Pak electrodes are sealed in a protective foil and should only be opened during use.
- ▶ Each Pediatric-Pak combines a battery and set of electrodes in a single cartridge. It is recommended that the samaritan PAD be stored with a Pad-Pak containing Adult electrodes installed and the Pediatric-Pak be stored in the carry case or nearby.
- ▶ The Pediatric-Pak has a shelf life. Replace the Pediatric-Pak if used or if the "Use by" date has passed.
- ▶ CPR for children and infants follows slightly different protocols than adults. It is important to obtain training in Infant/Child CPR to be prepared in an emergency.



## Instructions for Use

### Installing the Pediatric-Pak into the samaritan PAD

- ▶ Remove the Pediatric-Pak from the protective plastic pouch.
- ▶ Remove the Adult Pad-Pak from the samaritan PAD (if installed).
- ▶ To insert the Pediatric-Pak into the samaritan PAD refer to the “Preparation” section of your samaritan PAD user manual.
- ▶ When you switch on your samaritan PAD you should hear the voice prompt “Child Patient”.

### Using the Pediatric-Pak in an Emergency

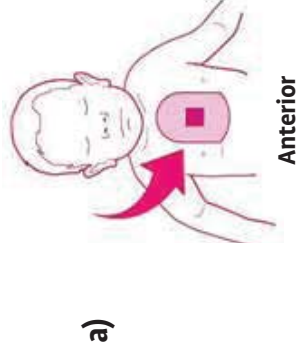
- ▶ It is recommended that if a child is unresponsive and not breathing the first step is to perform **CPR FOR TWO MINUTES** before using an AED. A bystander should call the emergency services.
- ▶ If no bystander is available, call the emergency services after one minute of CPR.
- ▶ Install the Pediatric-Pak in the samaritan PAD (as described previously).
- ▶ Turn on the samaritan PAD and follow audible and visual instructions.



## Electrode Placement

**Due to the smaller size of a pediatric patient, there are two options for electrode placement:**

- a. If a child's chest is small it may be necessary to place one pad on the child's BARE chest in the center, and the other pad on the child's BARE back in the center of the ribcage as shown in a).



**Anterior**

**Posterior**

- b. If a child's chest is large enough to permit a 1 inch (2.5 cm) gap between the pads, pad placement can be similar to adult placement. Place one pad on child's BARE upper right chest above nipple and one pad on child's BARE lower left ribcage below nipple as shown in b).



Electrodes can be placed on the child's chest if their chest is large enough

OR

if trauma doesn't allow for the placement as shown in diagram a).

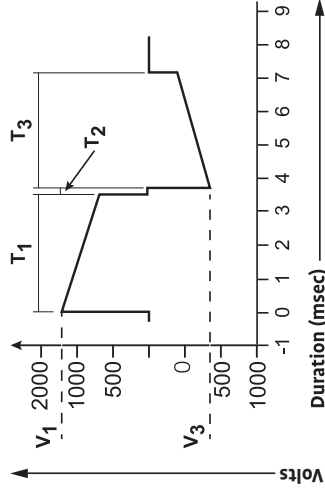
### WARNINGS

- ▶ Defibrillation electrodes must be at least 1 inch (approx 2.5 cm) apart and should never be touching one another.
- ▶ Victim's chest should be bare and dry when applying electrodes.
- ▶ Do not touch the child when the device is analyzing or shocking the patient.

## Specifications

- ▶ Waveform: Biphasic Truncated Exponential
- ▶ PAD impedance range: 0 – 176Ω
- ▶ Energy Accuracy: 50J ±15%

Impedance, Ω	Energy, J
25	47.5
50	51.3
75	52.1
100	51.8
125	52.4



## samaritan PAD

Resistance (Ohms)	Waveform Voltages (Volts)		Waveform Duration (msec)	
	V1	Tilt %	T1	T3
25	514	55.6	7.8	5.4
50	671	50.4	8.8	6
75	751	47.1	10	6.6
100	813	44.3	10.8	6.8
125	858	41.4	11.5	7.3

- ▶ Sample Nominal Energy Delivered to a 50Ω load

Age (Yrs)	50TH Percentile Weight* (kg)	50J Energy Dose In Joules Per Kg
1	10.3	4.9
2	12.7	4.0
3	14.3	3.5
4	16.0	3.2
5	18.0	2.8
6	21.0	2.4
7	23.0	2.2
8	25.0	2.0

\* Doses are based on CDC growth charts for the 50th percentile body weight of boys. National Center for Statistics in collaboration with the National Center for Chronic Disease Prevention and Health Promotion (2000).



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## Electrode Pads

- ▶ Conductive/Gel Surface Area: 100 cm<sup>2</sup> (200 cm<sup>2</sup> combined)
- ▶ Overall Size: 100 mm x 130 mm
- ▶ Standard Pad Placement: Anterior-Posterior or Anterior-Lateral



## Environmental

- ▶ Operating Temperature: 32°F to 122°F (0°C to 50°C)
- ▶ Standby Temperature: 32°F to 122°F (0°C to 50°C)
- ▶ Relative Humidity: 5% to 95% (non-condensing)
- ▶ Atmospheric Pressure: 0 feet to 15,000 feet, 760 mm Hg to 439 mm Hg above sea level
- ▶ Shipping Temperature Range: 14°F to 122°F (-10°C to 50°C)

**NOTE:** 1. 'Shipping' temperatures are permitted for **up to 48 hours**. (If device has been stored below 14°F (-10°C) it should be returned to an ambient temperature of between 32°F to 122°F (0°C to 50°C) for at least 24 hours before use.)

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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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