

The remote control allows training providers to control the scenario manually. When turned on, the HeartSine samaritan PAD 450P Trainer will operate as described in the training scenarios listed. Training providers can override this by pressing the 'Shock required', 'No shock required' or 'Attach electrode pads' button.



Shock required

Pressing the 'Shock required' button will cause the HeartSine samaritan PAD 450P Trainer to override the selected training scenario and simulate a shockable rhythm. Each subsequent analysis period will advise a shock to be delivered until either the HeartSine samaritan PAD 450P Trainer is turned off or the 'No shock required' button on the remote control is pressed.



No shock required

Pressing the 'No shock required' button will cause the HeartSine samaritan PAD 450P Trainer to override the selected training scenario and simulate a non-shockable rhythm. Each subsequent analysis period will advise no shock to be delivered until either the HeartSine samaritan PAD 450P Trainer is turned off or the 'Shock required' button on the remote control is pressed.



Attach electrode pads

If the 'Attach electrode pads' button is pressed the HeartSine samaritan PAD 450P Trainer will play the 'Attach electrode pads' prompts during the analysis period of operation. The HeartSine samaritan PAD 450P Trainer will continue to play 'Attach electrodes pads' prompts until the 'Attach electrode pads' button is pressed again.

HeartSine samaritan PAD with CPR Rate Advisor, SAM 450P

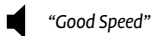
The SAM 450P automated external defibrillator incorporates a CPR feedback module called ‘CPR Rate Advisor’. The SAM 450P uses the CPR Rate Advisor function to provide simple feedback on the quality of the compression rate being provided by rescuers. The CPR Rate Advisor analyzes the rate at which compressions are being performed, and prompts the rescuer to push faster or slower as appropriate. If the CPR being provided is within the correct speed range, the SAM 450P will play a ‘Good speed’ prompt.

All audible prompts are accompanied by visual prompts on the CPR Rate Advisor icon.

CPR Rate Advisor training

Training providers can use the remote control to simulate the CPR Rate Advisor function on the HeartSine samaritan PAD 450P Trainer by using the remote control. Training providers should observe the CPR being provided by the trainees and based on observations press the appropriate button.

The HeartSine samaritan PAD 450P Trainer will initially assume correct compressions are being performed and play the audible prompt:



The CPR control buttons are located at the bottom of the remote control. The buttons to the left are used to provide feedback on the rate at which the trainee is performing compressions, and the buttons to the right are used to toggle between the Begin CPR prompt (if no CPR is being performed) and the Good speed prompt.



Compressions

The HeartSine samaritan PAD 450P Trainer can mimic the CPR Rate Advisor function on the SAM 450P defibrillator.



CPR not started

If the trainee has not started to perform CPR, press the 'Begin CPR/good speed' button. The HeartSine samaritan PAD 450P Trainer will play the audible prompt:



"Begin CPR"



The CPR Rate Advisor on the HeartSine samaritan PAD 450P Trainer has a single flashing red light on the left hand side of the display as shown. The trainee should begin CPR immediately.



Compressions Too Slow

If the trainee is performing compressions too slowly, press the 'Slow compressions' button.



When the button is pressed once, the two amber LEDs on the left hand side of the CPR Rate Advisor illuminate to indicate the trainee is providing CPR compressions at a rate slower than the AHA/ERC Guidelines. The trainee should increase the speed of their compressions.



Press the button a second time. The illuminated amber LEDs will be replaced by two red LEDs and the voice prompt will play:



"Push faster"



Compressions Too Fast

If the trainee is performing compressions too quickly, press the 'Fast compressions' button.



When the button is pressed once, the two amber LEDs on the right hand side of the CPR Rate Advisor illuminate to indicate the trainee is providing CPR compressions at a rate faster than the AHA/ERC Guidelines. The trainee should reduce the speed of their compressions.



Press the button a second time. The illuminated amber LEDs will be replaced by two red LEDs and the voice prompt will play:

🔊 *"Push slower"*



Compressions Correct Rate

If the trainee is performing compressions at the correct rate, press the 'Correct rate' button. The HeartSine samaritan PAD 450P Trainer will play the prompt:

🔊 *"Good speed"*



Four green LEDs in the center of the CPR Rate Advisor on the HeartSine samaritan PAD 450P Trainer will illuminate. The trainee should maintain this speed for the compressions.

HeartSine samaritan PAD 450P Trainer battery management

The HeartSine samaritan PAD 450P Trainer contains a rechargeable battery. It is recommended that you ensure the HeartSine samaritan PAD 450P Trainer is fully charged prior to commencing training activities.

When fully charged, the HeartSine samaritan PAD 450P Trainer will provide approximately seven hours of usage before it needs to be recharged.

The HeartSine samaritan PAD 450P Trainer will monitor the capacity of the battery as it approaches depletion. A minimum of one hour prior to the battery becoming depleted the HeartSine samaritan PAD 450P Trainer will play the following message:



“Warning. Low battery”

If this warning is heard you may continue to use your HeartSine samaritan PAD 450P Trainer for a limited period of time. If the battery becomes completely depleted the HeartSine samaritan PAD 450P Trainer will shut itself down. At this point the HeartSine samaritan PAD 450P Trainer should be recharged.

Charging and recharging the HeartSine samaritan PAD 450P Trainer

To safely charge or recharge the HeartSine samaritan PAD 450P Trainer follow the instructions given below.

- 1) Insert the charger adaptor into the socket on the side of the HeartSine samaritan PAD 450P Trainer. Ensure that the adaptor is fully inserted.
- 2) Plug the charger into the mains power outlet.
- 3) Leave the HeartSine samaritan PAD 450P Trainer to charge. The Battery Charge Status LED (located beside the socket) will be red when fast charging and will flash when charging is almost complete. Once charging is complete the LED will switch off. Charging a depleted HeartSine samaritan PAD 450P Trainer will take a maximum of six hours.
- 4) Remove the adaptor from the HeartSine samaritan PAD 450P Trainer. Turn on the HeartSine samaritan PAD 450P Trainer to ensure that the device is working.

If the HeartSine samaritan PAD 450P Trainer is switched on during charging, the charger should be switched off then on again to restart fast charging.

The HeartSine samaritan PAD 450P Trainer must only be charged with the charger supplied with it. Use of any other charging device will nullify the warranty and may result in damage to the HeartSine samaritan PAD 450P Trainer.

The HeartSine samaritan PAD 450P Trainer and charger are designed for indoor use only. Do not use in wet or damp environments.

There are no user serviceable parts inside your HeartSine samaritan PAD 450P Trainer, HeartSine samaritan PAD 450P Trainer Trainer-Pak or charger. Do not open these products. In the unlikely event of a malfunction, please contact your distributor immediately.

Remote control batteries

The remote control contains a low battery warning indicator. If this indicator flashes red two times after a button on the remote control is pressed, the batteries within the remote control needs to be replaced.

The remote control uses two standard AAA batteries. The batteries can be accessed by removing the battery cover at the back of the remote control.



Inserting the batteries into the remote control while pressing the Off button will cause the remote control to enter pairing mode and take a new transmission ID. This will be different to that previously stored on the HeartSine samaritan PAD 450P Trainer. If this occurs accidentally it will be necessary to complete the pairing procedure in full to pair the remote control with the HeartSine samaritan PAD 450P Trainer again.

Normal battery replacement does not cause a problem since pairing is only initiated when the Off button is also held down.

HeartSine samaritan PAD 450P Trainer Configuration Tool

The HeartSine samaritan PAD 450P Trainer Configuration Tool is software that can be downloaded for free from the HeartSine website (heartsine.com). This software allows you to upgrade your HeartSine samaritan PAD 450P Trainer. The following options are available.

Language

The HeartSine samaritan PAD 450P Trainer can be reprogrammed to operate with audible prompts in any one of a selection of languages. Download the current HeartSine samaritan PAD 450P Trainer Configuration Tool user manual from the HeartSine website for instructions on how to do this.

Pairing a remote control with the HeartSine samaritan PAD 450P Trainer

Each HeartSine samaritan PAD 450P Trainer is operated with a specific remote control. This is to allow multiple devices to be used in close vicinity without interference. In the unlikely event that your remote control no longer operates with your HeartSine samaritan PAD 450P Trainer it may need to be paired with your HeartSine samaritan PAD 450P Trainer again.

The HeartSine samaritan PAD 450P Trainer Configuration Tool can be used to pair a remote control with your HeartSine samaritan PAD 450P Trainer. Full instructions are contained within the accompanying user manual.

Device identifications

Each HeartSine samaritan PAD 450P Trainer is given an identification number between 001 and 255 during manufacture. The remote control for each HeartSine samaritan PAD 450P Trainer is then given the same identification number. In the unlikely event that two devices with the same ID number are being used at the same time, use the HeartSine samaritan PAD 450P Trainer Configuration Tool to assign new numbers to the devices. It will be necessary to pair the device with its remote control after assigning a new ID number.

The following is a brief overview of the fundamentals of CPR for lay rescuers as advised by both the American Heart Association (AHA) and the European Resuscitation Council (ERC) in their 2015 published Guidelines for CPR and ECC. This is intended only as a quick reference for trained CPR providers. HeartSine recommends that all potential users of the SAM 450P are trained by a competent training organization in both the use of CPR and SAM 450P, prior to placing a SAM 450P into service. Should the Guidelines change, software will be available to upgrade the SAM 450P to comply. Please contact your HeartSine authorized distributor or HeartSine Technologies directly.

CALL Emergency Services
(119/999/911 etc.).

Send for an AED.

Person not responsive?
Address person and shake on
shoulder. Call Emergency Services.



Watch, feel, listen.

Open the airway, check for
breathing.



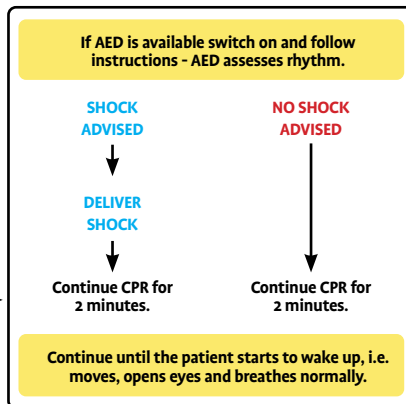
**Perform CPR following the latest
AHA or ERC guidelines.**

Perform CPR until an AED is available
OR arrival of emergency physician.
Engage other people to help you and
alternate CPR.



If available use an AED.

**Continue CPR until Emergency Services
arrive. Alternate with second person
after one cycle or 2 minutes.**



Disposal instructions

The HeartSine samaritan PAD 450P Trainer is a reusable device. If maintained in accordance with the instructions in this manual it has a warranty period of two years from the date of manufacture.

If you wish to dispose of the HeartSine samaritan PAD 450P Trainer unit, it should be disposed of at an appropriate recycling facility according to national, state and local requirements. Alternatively return the unit to your local distributor or HeartSine Technologies for disposal.

Disposal within the European Union:

Do not dispose of the HeartSine samaritan PAD 450P Trainer unit as unsorted municipal waste: keep the HeartSine samaritan PAD 450P Trainer separate, to be reused or recycled in accordance with Directive 2002/96/EEC of the European Parliament and the Council of the European Union on Waste Electronic and Electrical Equipment (WEEE), or return to your local distributor or HeartSine Technologies for disposal.

Warranty exclusion

HeartSine Technologies or its authorized distributors are not obliged to carry out service/repairs under warranty if:

- a. Unauthorized modifications have been made to the device.
- b. Non-standard components are used.
- c. The user has not used the device in accordance with the indications for use or the instructions provided in this manual.
- d. The serial number of the apparatus is removed, defaced, misused or altered.
- e. The device, electrodes or batteries are stored or used operationally outside of environmental specifications.
- f. The device has been tested using unapproved methods or inappropriate equipment (see the Maintenance section of this manual).

Any claims made under warranty must be directed via your distributor from whom the device was originally purchased. Before carrying out service under warranty, HeartSine Technologies requires evidence of purchase. The product must be used in accordance with the User Manual and for the purpose for which it was intended. If you have any questions please contact heartsinesupport@stryker.com for assistance.



We're in it for life.



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For further information contact us at heartsinesupport@stryker.com or visit our website at heartsine.com.

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