

# Saver EVO™ User Manual

The information in this document is subject to change without notice and does not represent a commitment on behalf of HeartSine Technologies LLC. No part of this manual may be reproduced or transmitted in any form or by any means, electrical or mechanical, including photocopying and recording for any purpose without the express written permission of HeartSine Technologies Ltd.

Website: [www.heartsine.com](http://www.heartsine.com) • E-mail: [support@heartsine.com](mailto:support@heartsine.com)

## Table of Contents

Overview .....	3
Install the Software .....	3
Access Event Data .....	7
Retrieve Event Data .....	7
Erase Event Data .....	11
Change samaritan PAD Settings .....	11
Set the Clock .....	12
Run Diagnostic Tests .....	13
Edit samaritan PAD Configuration .....	14
Enable/Disable the Metronome .....	14
View Self Test Status .....	15
Export and Import Event Data Files .....	17
Delete Saved Events .....	17
Change Saver EVO Settings .....	18
Change the Password .....	18
Change the Saver EVO Language .....	19
Check for Automatic Updates .....	19

## Overview




Saver EVO™ software enables you to retrieve and manage defibrillation event data from your samaritan® PAD. Once the event data is downloaded and saved to your PC, Saver EVO enables you to print the event data, and import and export event data to/from other Saver and Saver EVO users.

To connect Saver EVO to your PC, you will need the HeartSine USB Data Cable. This is a specialized cable that must be ordered from your HeartSine Authorized Distributor or HeartSine directly. The main screen for Saver EVO is shown in Figure 1.



**Figure 1. Main Screen**

From the main screen, you can choose from the following options:

- |   |                     |  |
|---|---------------------|--|
|  | samaritan PAD       | Retrieve event data from your samaritan PAD, change the volume, language or time on your samaritan PAD, or run a series of self tests. |
|  | Manage Saved Events | View, export, import or delete events that have been saved on your PC.   |
|  | Exit Saver EVO      | Exit and close the Saver EVO software.   |

## Install the Software

The Saver EVO software is available for download on the HeartSine web site. You must download the appropriate software based on your location and samaritan PAD model. These are listed under the Saver EVO heading on the download page.

1. Go to <http://heartsine.com/support/upload-saver-evo/> and click the appropriate Download link. The Saver EVO file for your location and device will download.
2. Click the downloaded file. The Set Up Wizard screen, as shown in Figure 2, opens.

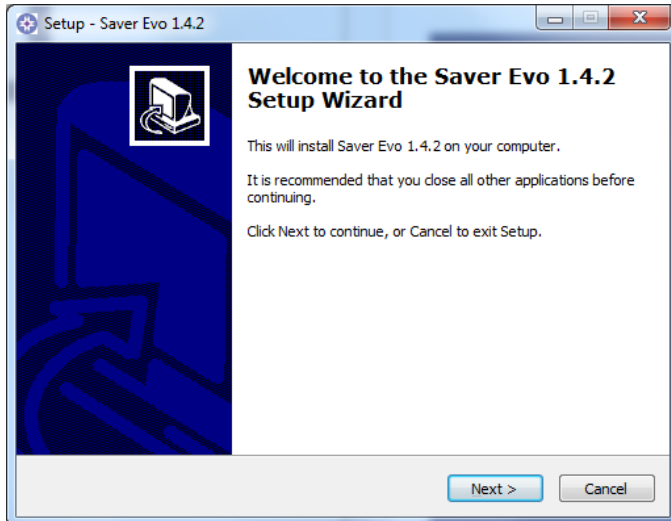


Figure 2. Sample Saver EVO Setup Screen

3. Click **Next** to continue with the setup. The License Agreement screen opens.

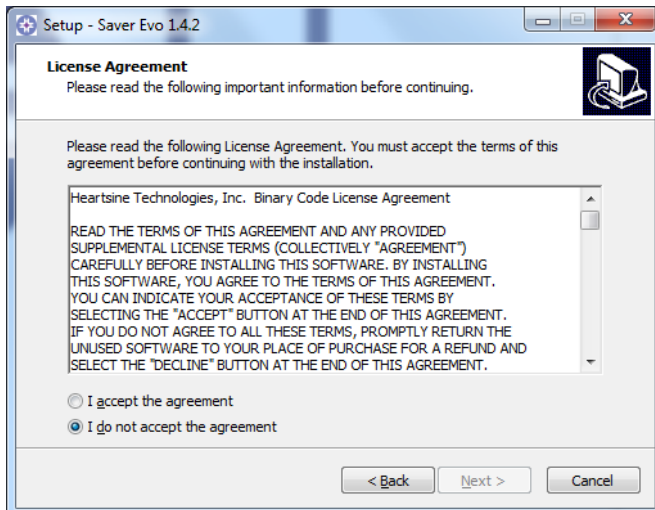
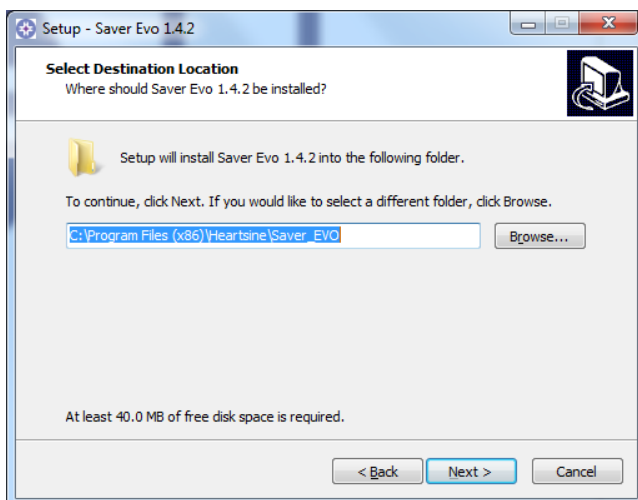


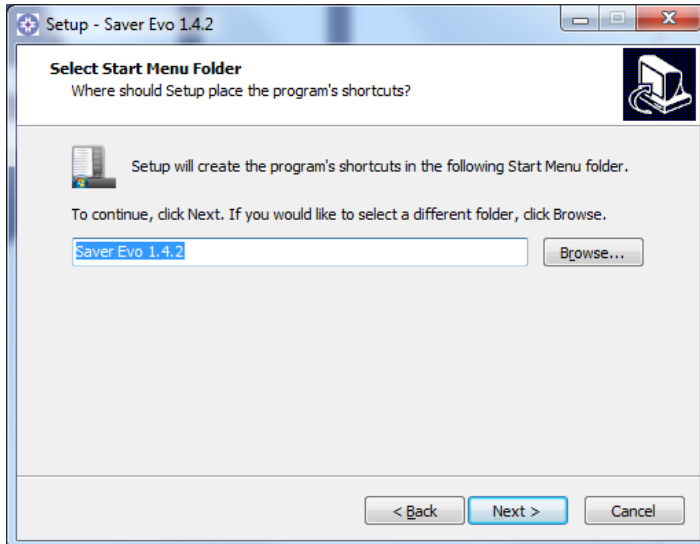
Figure 3. License Agreement Screen

4. After reading the user license agreement, select **I accept the agreement**, and click **Next**. The Setup screen shown in Figure 4 opens.

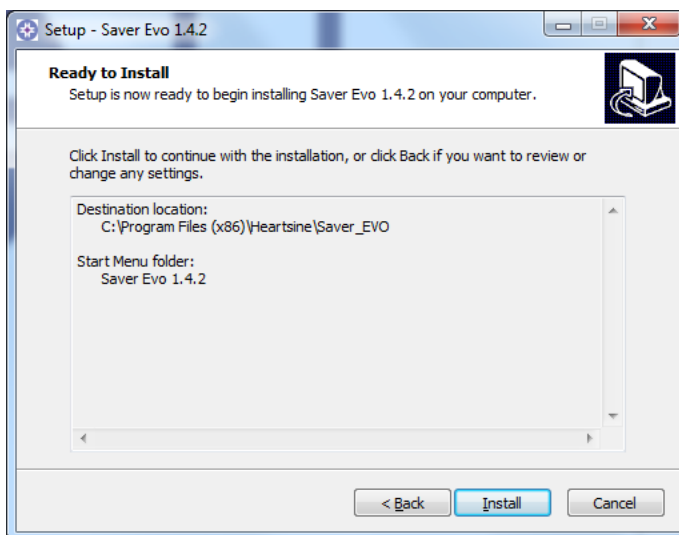


**Figure 4. Setup Screen**

5. If you wish to save the Saver EVO software in a different folder than the default provided, click **Browse** to choose the new folder.
6. Click **Next** to continue. The Setup screen shown in Figure 5 opens.


**Figure 5. Setup Screen**

7. If you wish to create the Saver EVO shortcut in a different folder than the default provided, click **Browse** to choose the new folder.
8. Click **Next** to continue. The Setup screen shown in Figure 6 opens.


**Figure 6. Ready to Install Screen**

9. Click **Install** to proceed with the installation of Saver EVO to your PC. The Device Driver Installation Wizard, shown in Figure 7, opens.

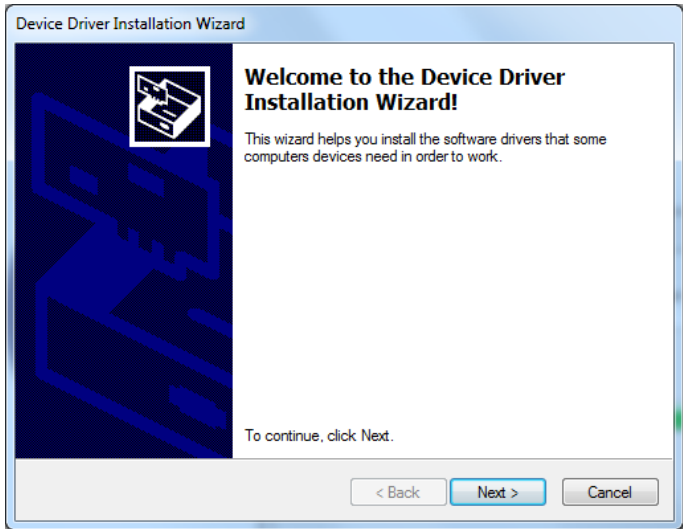


Figure 7. Device Drive Installation Wizard

10. Click **Next** to continue with the device driver installation. The Completing the Device Drive Installation Wizard screen opens.

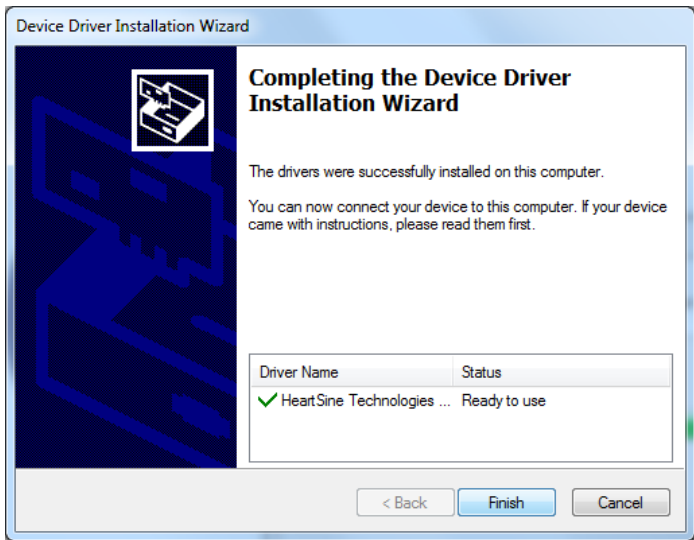



Figure 8. Ready to Install Screen

11. Click **Finish** to close the wizard. The Saver EVO icon  will appear on your Start Menu.

## Access Event Data

1. Connect the HeartSine USB Data Cable between your PC and the samaritan PAD.
2. From the main menu, click **samaritan PAD** icon. The Saver EVO PAD Access Screen, shown in Figure 9, opens.



**Figure 9. Saver EVO PAD Access Screen**

From the Saver EVO PAD access screen, you can do the following:

OPTION	ACTIVITIES
PAD Data	Save, view, erase or print event data collected on the samaritan PAD.
Change PAD Settings	Change the volume, language or time programmed on the samaritan PAD, enable or disable the metronome (except for the samaritan PAD 450P and 500P), or run diagnostic self tests.
Self Test Status	View and save results of the self tests that have run on the samaritan PAD.

## Retrieve Event Data

Saved events can be retrieved and viewed in Saver EVO. You should save each event individually on your PC, and then erase the files on the Samaritan PAD. You will have the option to enter information that enables you to identify the patient from the list of saved events on your PC. The details about the patient can consist of alphanumeric characters and each field can be completed or left blank if desired.

1. Click **PAD Data** icon. The Event Log List screen opens as shown in Figure 10. All recorded events stored in the memory of the samaritan PAD are shown with a checkmark next to those that have already been saved to the PC.



Figure 10. Saver EVO PAD Event Log List Screen

- Highlight the event you wish to retrieve and click **View**. The Event Viewer screen opens, as shown in Figure 11. Each sub-event is itemized in the left column, while the right column shows the patient's heart rhythm throughout the event. (The sub-events shown will vary according to the model of samaritan PAD being used.)

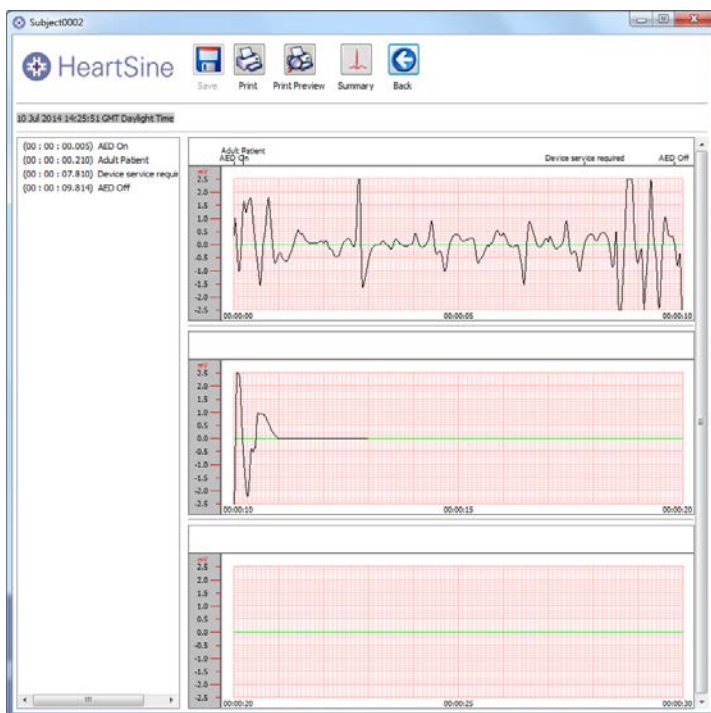
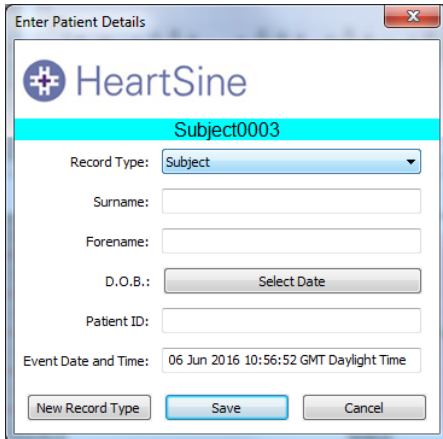


Figure 11. Event Viewer Screen

- To save this event, click **Save**. The Patient Details Window, shown in Figure 12, opens.





**Figure 12. Patient Details Screen**

4. Enter the patient's last name (surname), first name (forename), date of birth (D.O.B.) and patient ID. The event date and time are recorded automatically.

**NOTE:** Once the defibrillation event data is saved to your PC, the patient details cannot be changed.

5. Click **Save** to save the event data to your PC. The Patient Details window closes.
6. Click **Print** (or Print Preview) to print the event data as shown. When the print screen opens, click **Print**.
7. Click **Summary** to view and save a summary of the event. The Summary screen, shown in Figure 13, opens.



**Figure 13. Summary Screen**

Following are descriptions of the fields in the Summary screen:

FIELD	DESCRIPTION
Date	Date of the event.
Serial Number	Serial number of the samaritan PAD.
Patient ID	ID of the patient that you entered in the Patient Details screen.
Record ID	ID number automatically generated by Saver EVO for the event.
Episode Start Time	Time the event started.
Total Length of Episode	Length of the event from when the samaritan PAD was turned on until it was turned off.
Total Number of Analyses	Total number of analysis cycles performed by the samaritan PAD during the event.
Total Number of Shocks	Total number of shocks administered by the samaritan PAD during the event.
Time from Power On to First Shock	Elapsed time from the samaritan PAD being turned on until the first shock was delivered.

If you are using a samaritan PAD 450P, the CPR compression data will be provided as shown in Figure 14.

No CPR (%)	0.00
Slow CPR (%)	49.79
Good CPR Speed (%)	49.38
Fast CPR (%)	0.83
Average Rate (CPM)	95.77
Compression Fraction (%)	100.00

Figure 14. CPR Compression Data

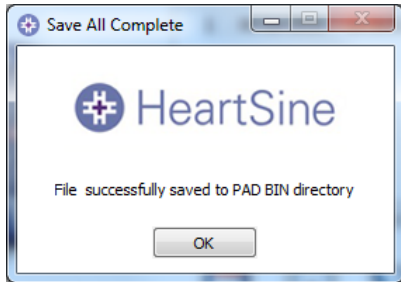
FIELD	DESCRIPTION
No CPR	Percentage of time during the administration of CPR that the compression rate was equal to 0 (zero) compression rates per minute (CPM).
Slow CPR	Percentage of time during the administration of CPR that the compression rate was below 100 CPM.
Good CPR Speed	Percentage of time during the administration of CPR that the compression rate was between 100 and 120 CPM.
Fast CPR	Percentage of time during the administration of CPR that the compression rate was greater than 120 CPM.
Average Rate	Average CPM.
Compression Fraction	Percentage of time CPR was administered when advised.

8. Click **Save** to save the event data summary in a PDF document
9. Enter the file name and select the location on your PC in which to save the file, and click **Save**.
10. Click **Close** to close the Summary screen and return to the Event Viewer screen.
11. Click **Back** to return to the Saver EVO PAD event log list screen.

## Save All Event Data Files

You can choose to save all of the event data files in a single file. Events saved by this method cannot be retrieved for viewing by this version of Saver EVO. For retrieval of events from this file, contact HeartSine Technologies customer support. Therefore, it is recommended that you save each events individually as described in the previous section.

1. Click **Save All** to save all the event files listed in the event log to be saved to the PC in a single file. The Save All Complete screen opens to confirm the files have been saved.



**Figure 15. Save All Confirmation Screen**

2. Click **OK** to close the screen.

## Erase Event Data

It is recommended that when event data has been retrieved from the samaritan PAD and saved to the PC the event is erased from its memory. This will ensure that the complete memory is available for recording the data for the next defibrillation event.

1. From the Event Log List screen, click **Erase**.
2. When prompted, enter your password and click **Confirm**. When the correct password is entered, the memory of the samaritan PAD will be erased. (For information on how to change the default password please see the *Change the Password* section of this guide.)

**CAUTION:** HeartSine recommends that you download the complete samaritan PAD memory prior to erasing it. This information should be stored safely for future reference.

## Change samaritan PAD Settings

From the Saver EVO PAD Access screen, run diagnostic tests, view software settings, and change the following settings on your samaritan PAD:

- Clock
- Volume
- Metronome

From the Saver EVO Access screen, click **Change PAD Settings** icon. The Change PAD Settings screen, as shown in Figure 16, opens.



Figure 16. Change PAD Settings Screen

### Set the Clock

When shipped, the samaritan PAD clock is set on GMT. You should set the clock to your local time. You can do this by manually entering the time or automatically synchronizing the time to your PC.

1. Click **Check/Set PAD Time** icon. The Manage PAD Clock screen, shown in Figure 17, opens.

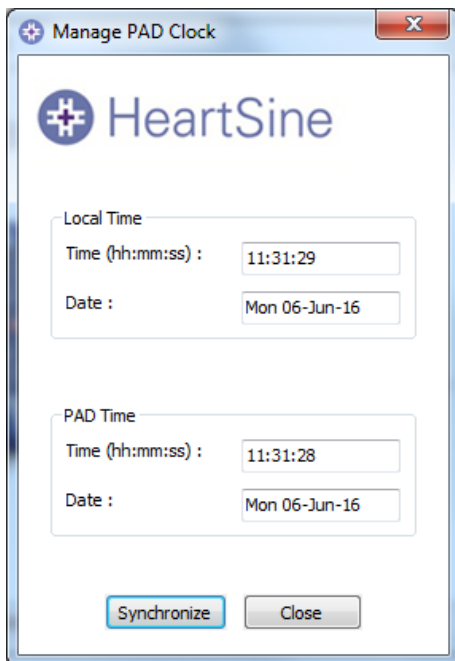


Figure 17. Manage PAD Clock Screen

2. Click **Synchronize** to set the time on the samaritan PAD to the same time as the PC to which it is connected.
3. Click **Close** to return to the Change PAD Settings screen.

### Run Diagnostic Tests

You can run basic diagnostic tests to check the function of the samaritan PAD. The list of available diagnostic tests is accessed from the pull-down menu.

1. Click **Run Diagnostic Tests** icon. The Diagnostic Tests screen opens.



**Figure 18. Diagnostic Tests Screen**

2. From the pull-down menu, select the test you wish to run.
3. Click **Start**. You will see and/or hear the tests run on the connected samaritan PAD. If any of these tests fail, immediately contact your HeartSine Authorized Distributor or HeartSine directly.

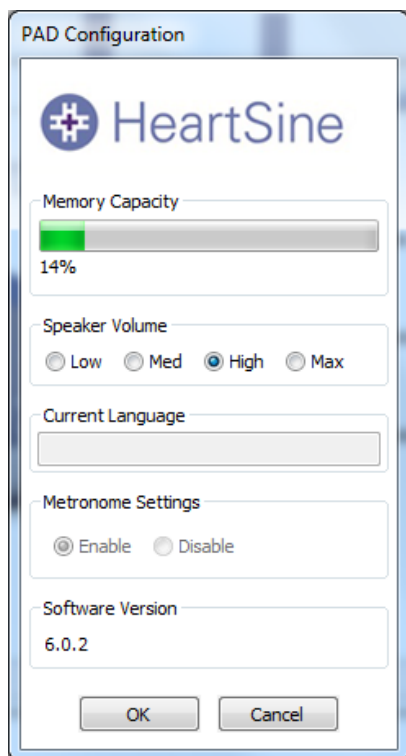
Following is a description of all the diagnostic tests that can be run and expected result of each:

TEST	EXPECTED RESULT
All LED icons	Illuminates all icons.
Pads icon	Illuminates the arrows in the Attach Pads icon.
Pads Placement Icon	Illuminates the pads in the Attach Pads icon.
Shock Key Icon	Illuminates the Shock button (or Shock key on SAM 360P).
Stand Clear Icon	Illuminates the Do Not Touch icon.
CPR Icon	Illuminates the Action arrows.
Audible Beep	Emits an audible beep.
On/Off Key Operation	Walks you through steps to confirm the On/Off button is working properly.
Capacitor Charge Up	Charges the capacitor as it does when preparing to shock. This test is not recommended as it significantly depletes the battery.

### Edit samaritan PAD Configuration

You can you to view and modify various features of the configuration on your samaritan PAD device.

1. From the Change PAD Settings screen, click **Edit PAD Configuration** icon. The Configuration screen, shown in Figure 19, opens.



**Figure 19. Configuration Window**

The information and configuration options provided in this screen are as follows:

FIELD	DESCRIPTION
Memory Capacity	Identifies the percentage of memory that has been used on your samaritan PAD. If the memory is full, after saving the events erase each from your samaritan PAD.
Speaker Volume	View and set the speaker volume to low, medium, high or maximum.
Current Language	Display the language programmed onto your samaritan PAD.
Metronome Settings	Enable or disable the metronome on your samaritan PAD, except for the samaritan PAD 450P and 500P models where the metronome is automatically enabled for the CPR Rate Advisor™ or CPR Advisor™ feature. Note that the metronome is enabled upon delivery of the samaritan PAD.
Software Version	Identifies the software version installed on your samaritan PAD.

### Enable/Disable the Metronome

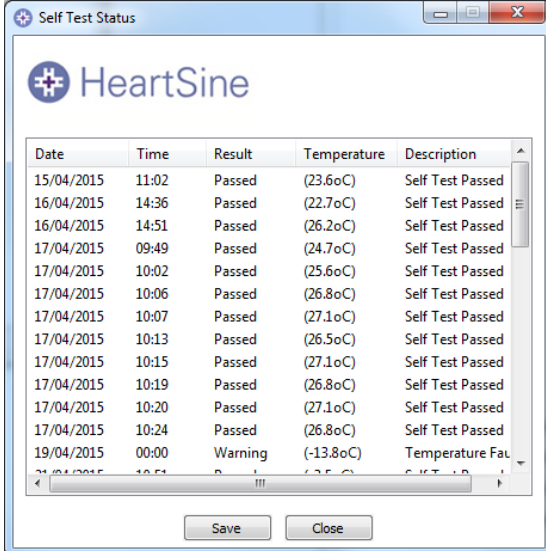
1. From the PAD Configuration screen, select **Enable** to enable the metronome or **Disable** to disable the metronome. **NOTE:** You cannot disable the metronome on the SAM 450P or SAM 500P.

2. Click **OK** to save this setting and return to the main screen.

## View Self Test Status

You can view the status of the self tests that have been performed on the samaritan PAD.

1. From the main menu, click **Self Test Status** icon. The following details are displayed as shown in Figure 22:
  - Date and time of each self test.
  - Result of each self test: Passed, Warning or Failed
  - Temperature of the device at the time of each self test.
  - Description of the result of each self test, which can include:
    - For 'Passed' results:
      - Self Test Passed
    - For 'Warning' results:
      - Temperature Fault
      - Configuration Fault
      - RTC Fault
      - Undefined Fault Code
    - For 'Failed' results:
      - Software Integrity Fault
      - Memory Fault
      - Capacitor Fault



The screenshot shows a window titled "Self Test Status" with the HeartSine logo at the top. Below the logo is a table with the following columns: Date, Time, Result, Temperature, and Description. The table contains 18 rows of data, with the last row showing a "Warning" result due to a "Temperature Fault". At the bottom of the window are "Save" and "Close" buttons.

Date	Time	Result	Temperature	Description
15/04/2015	11:02	Passed	(23.6oC)	Self Test Passed
16/04/2015	14:36	Passed	(22.7oC)	Self Test Passed
16/04/2015	14:51	Passed	(26.2oC)	Self Test Passed
17/04/2015	09:49	Passed	(24.7oC)	Self Test Passed
17/04/2015	10:02	Passed	(25.6oC)	Self Test Passed
17/04/2015	10:06	Passed	(26.8oC)	Self Test Passed
17/04/2015	10:07	Passed	(27.1oC)	Self Test Passed
17/04/2015	10:13	Passed	(26.5oC)	Self Test Passed
17/04/2015	10:15	Passed	(27.1oC)	Self Test Passed
17/04/2015	10:19	Passed	(26.8oC)	Self Test Passed
17/04/2015	10:20	Passed	(27.1oC)	Self Test Passed
17/04/2015	10:24	Passed	(26.8oC)	Self Test Passed
19/04/2015	00:00	Warning	(-13.8oC)	Temperature Fault

**Figure 22. Self Test Status Screen**

2. Click **Save** to save the data in PDF format to your PC.
3. Enter the file name and select the location on your PC in which to save the file, and click **Save**.
4. Click **Close** to close the Self Status screen.
5. Immediately report any Failed results to HeartSine support at: [support@heartsine.com](mailto:support@heartsine.com)

## Manage Saved Events

You can review event data that has been downloaded from the samaritan PAD and saved to the computer.

1. Click **Manage Saved Events** icon to open the Managed Saved Events screen as shown in Figure 23.

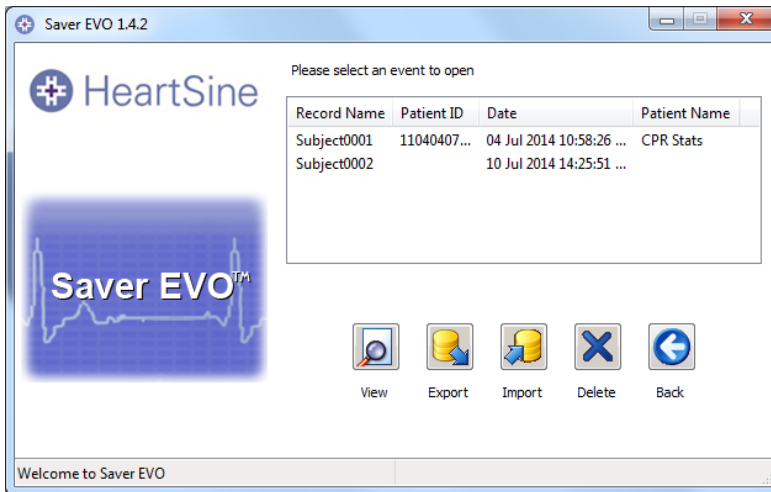


Figure 23. Managed Saved Events Screen

2. Highlight a saved event from the list and click **View** to open the event and view the ECG data and event log. The Event Viewer screen, shown in Figure 24, opens. Any saved patient details is displayed across the top of the screen and each sub-event is itemized in the left column, while the right column shows the patient's heart rhythm throughout the event. (The sub-events shown will vary according to the model of samaritan PAD being used.)

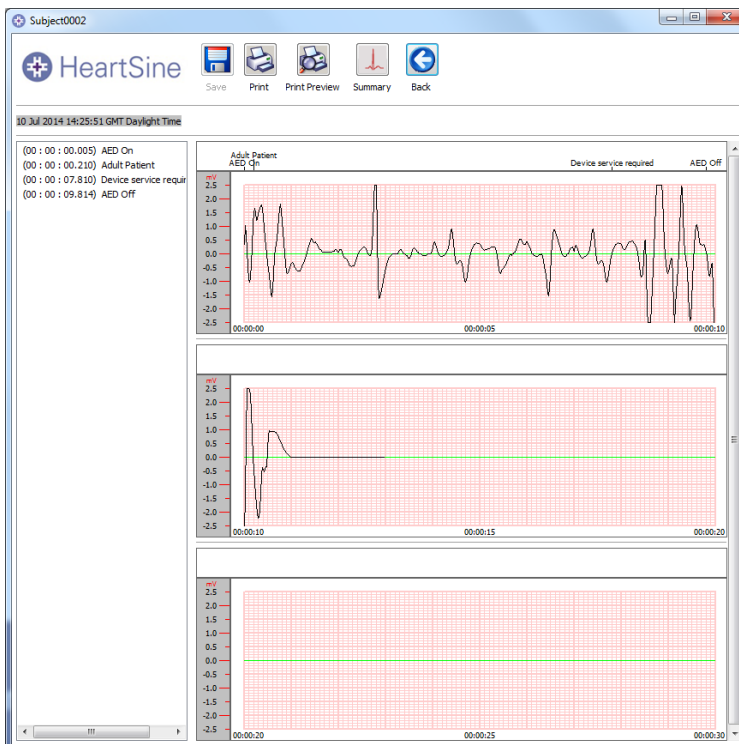


Figure 24. Event Viewer Screen with Patient Details



## Export and Import Event Data Files

You can send or receive copies of saved events, using the Export and Import functions of Saver EVO.

To Export Events

1. From the Manage Saved events screen highlight the event(s) that you wish to export and click **Export**.
2. When prompted, enter the file name and select the location on your PC in which to save the file, and click **Save**.
3. Click **Save** to save the file in the chosen location.

NOTE: Once you have saved the event file, you can attach this file to an e-mail using your normal e-mail software and send the exported file to another user who has the Saver EVO software. **Event data from Saver EVO can only be viewed by another Saver EVO user.**

To Import Events

To import events and view these on your PC using Saver EVO, you must save the Saver or Saver EVO file on your PC.

1. From the Manage Saved Events screen, click **Import**.
2. Browse to the file on your PC and click **Open**. The event files will be added to the list of Saver EVO event files on your computer and a confirmation screen opens.
3. Click **Close** to close the confirmation screen.
4. To view the event, highlight the event in the list and click **View**.

## Delete Saved Events

You can use Saver EVO to delete saved events from your computer.

1. Highlight the event(s) to be deleted. (Multiple events can be selected by holding the Shift key while clicking on the each event.)
2. When you have confirmed that only the events you wish to delete have been selected click **Delete**.
3. When prompted, enter your password and click **Confirm**. The selected events will be deleted from your PC and a confirmation screen opens.
4. Click **OK** to close the confirmation screen.

Caution: Please ensure that only the events you want to delete have been selected prior to deleting. Once deleted from your computer's memory events cannot be regenerated and all information will be lost.

## Change Saver EVO Settings

Some of the settings in Saver EVO can only be changed or completed by entering a password. This allows administrators of the software to restrict access to certain capabilities to authorized users. Until it's changed, the default password is password.

### Change the Password

Saver EVO is configured using the default password: password. You should change the password as soon as you install the software.

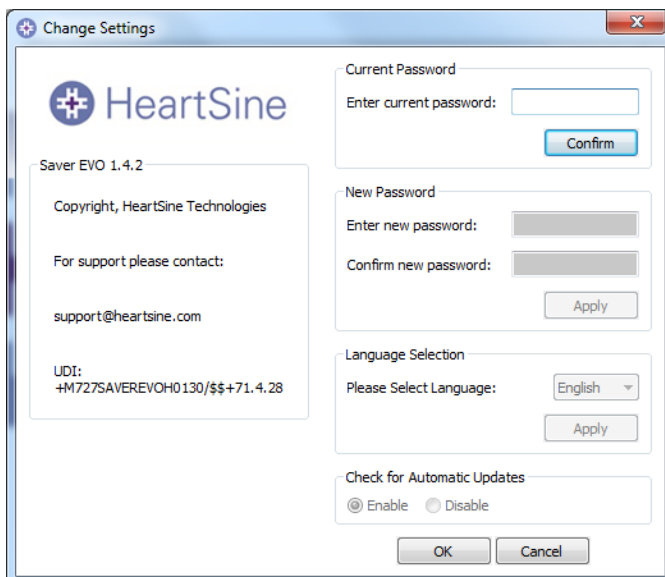
NOTE: Reinstalling the Saver EVO software will reset the password to the default in the software. This action, however, will not remove any event data that has previously been saved.

1. Click **Settings** icon in the upper right corner of the Saver EVO start screen, as shown in Figure 25:



**Figure 25. Main Screen**

The Change Settings screen, shown in Figure 26, opens.



**Figure 26. Change Settings Screen**

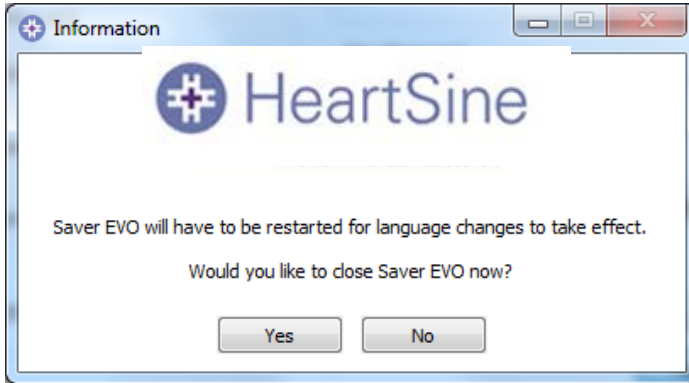
2. Enter the current password and click **Confirm** to unlock the settings fields.
3. Enter your new password in each of the boxes under New Password.
4. Click **Apply** to make the change. A confirmation that the password was successfully changed appears.
5. Click **OK** to close the confirmation screen and click **OK** to exit the Change Password screen.

### Change the Saver EVO Language

You can choose the language for the Saver EVO software.

**NOTE:** This screen is used to change the language used for the Saver EVO software screens. To change the language on the samaritan PAD voice prompts, refer to Changing Language on the samaritan PAD.

1. From the pull-down menu (Please Select Language), select the new language.
2. Click **Apply**. A confirmation screen opens, as shown in figure 27.



**Figure 27. Language Change Confirmation Screen**

3. Click **Yes** to restart Saver EVO and complete the language change.

### Check for Automatic Updates

Upon installation of Saver EVO, the software will be configured to check for automatic updates. If an update is available whenever Saver EVO is launched, the software will check to see if a new version of Saver EVO is available. If so, you will be prompted to go to the HeartSine website to download the new version, as shown in Figure 28. Clicking yes will direct you to the website to download a newer version of Saver EVO.



**Figure 28. Check for Automatic Updates Screen**

To Enable/Disable Automatic Updates

1. From the Change Settings screen, select **Enable** to enable automatic updates or **Disable** to disable automatic updates.
2. Click **OK** to save this setting and return to the main screen.

**EMEA/APAC**

HeartSine Technologies Ltd.  
203 Airport Road West  
Belfast, Northern Ireland  
BT3 9ED  
Tel: +44 28 9093 9400  
Fax: +44 28 9093 9401  
info@heartsine.com

**U.S./Americas**

HeartSine Technologies LLC  
121 Friends Lane, Suite 400  
Newtown, PA. 18940  
Toll Free: (866) 478 7463  
Tel: +1 215 860 8100  
Fax: +1 215 860 8192  
info@heartsine.com



© 2016 HeartSine Technologies Ltd.  
All rights reserved.  
H013-001-400-6