

Saver EVO[®]

User Manual

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heartsine.com
heartsinesupport@stryker.com

Overview

Saver EVO® software enables you to retrieve and manage defibrillation event data from your HeartSine® 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.

Saver EVO is provided with a software license on a single PC running Microsoft Windows (preferably Windows 10).

To connect Saver EVO to your PC, you will need the USB data cable (which may have been supplied with your HeartSine samaritan PAD). If you do not have the cable, please contact your Stryker sales representative or Authorized Distributor. If a HeartSine Gateway™ is connected to your AED, you may use a micro USB cable.

The main screen for Saver EVO is shown in Figure 1.



Figure 1. Main screen

Quick instructions

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



samaritan PAD – Retrieve event data from your HeartSine samaritan PAD, change the configuration (time, volume or metronome) on your HeartSine samaritan PAD, or run a series of diagnostic 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 HeartSine samaritan PAD model. These are listed under the Saver EVO heading on the download page.

1. Go to heartsine.com to download the appropriate software for your region. 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.

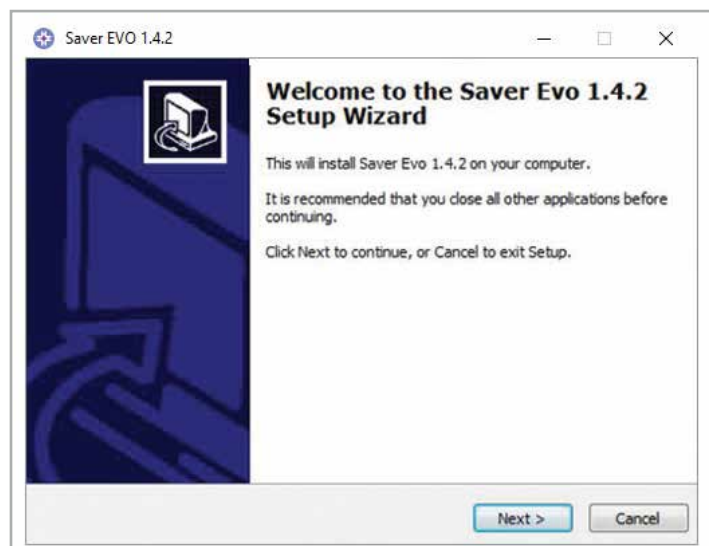


Figure 2. Sample Saver EVO setup screen

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

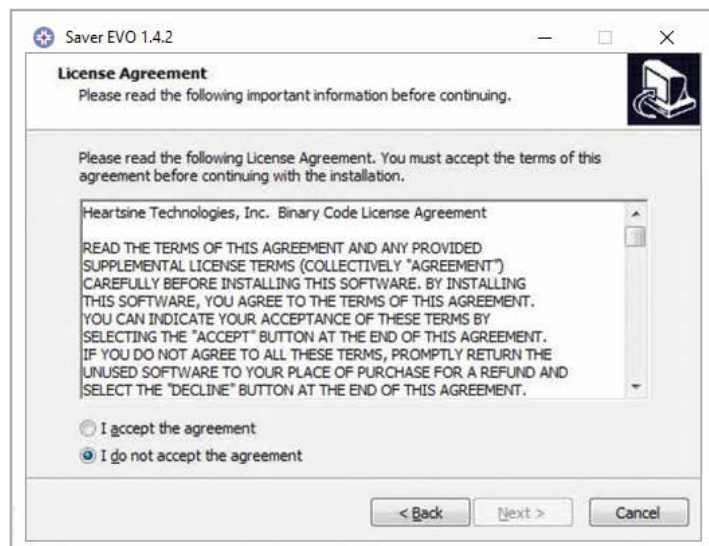


Figure 3. License Agreement screen

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

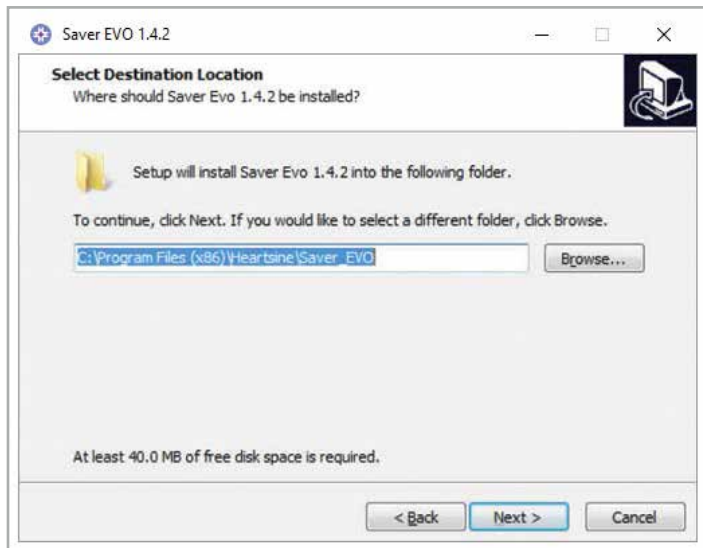


Figure 4. Setup screen

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

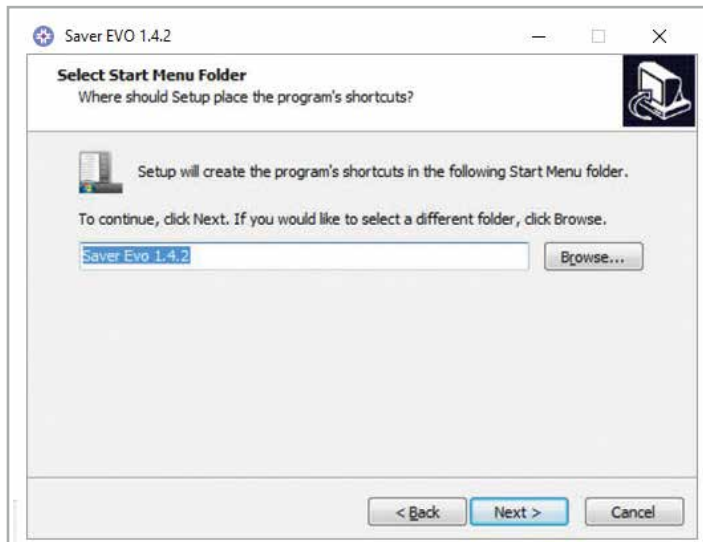


Figure 5. Setup screen

- 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.

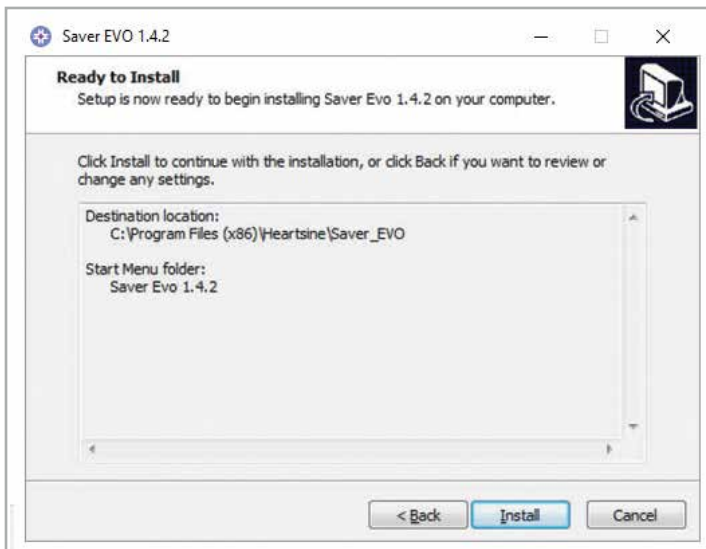


Figure 6. Ready to Install screen

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

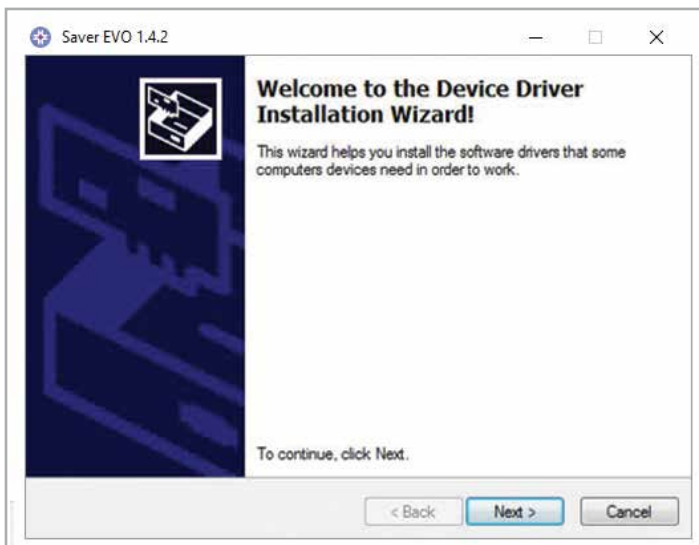


Figure 7. Device Drive Installation Wizard

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

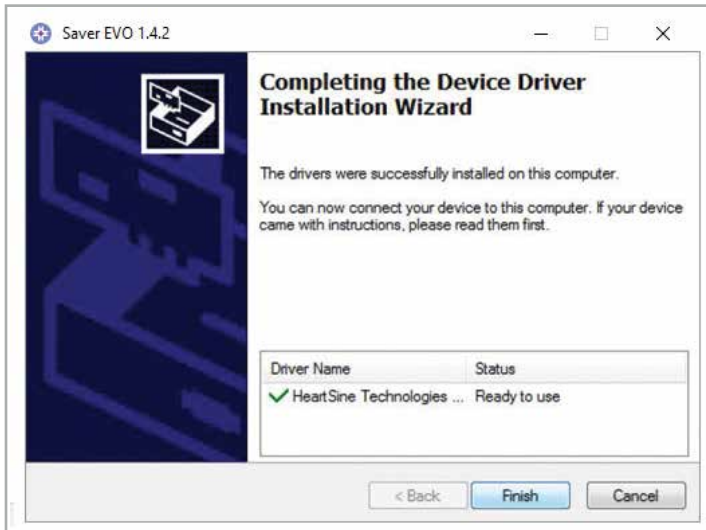



Figure 8. Ready to install screen

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

Access event data

1. Connect the USB cable between your PC and the HeartSine samaritan PAD.
2. From the main menu, click HeartSine 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 HeartSine samaritan PAD.
Change PAD Settings	Change the volume or time programmed on the HeartSine samaritan PAD, enable or disable the metronome (except for the HeartSine 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 HeartSine 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 HeartSine 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 HeartSine samaritan PAD are shown with a checkmark next to those that have already been saved to the PC.

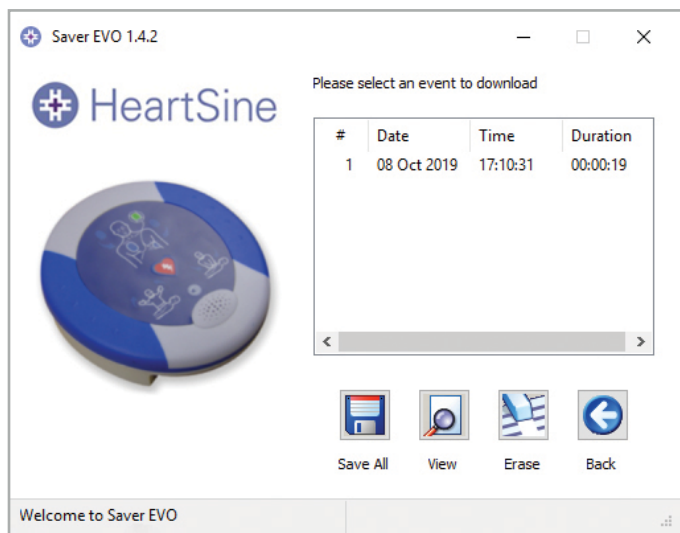


Figure 10. Saver EVO PAD event log list screen

2. 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 HeartSine samaritan PAD being used.)

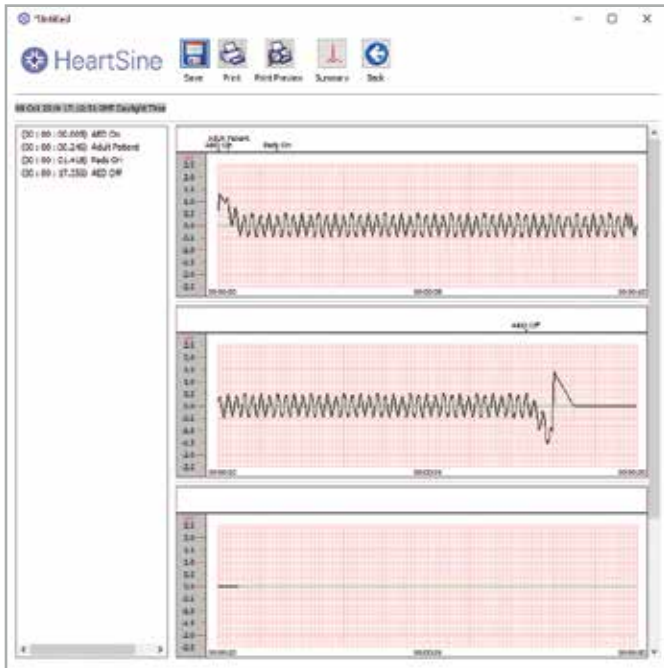


Figure 11. Event viewer screen

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

Figure 12. Patient Details screen

- 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.

- Click Save to save the event data to your PC. The Patient Details window closes.
- Click Print (or Print Preview) to print the event data as shown. When the print screen opens, click Print.
- 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 HeartSine 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 HeartSine samaritan PAD was turned on until it was turned off.
Total Number of Analyses	Total number of analysis cycles performed by the HeartSine samaritan PAD during the event.
Total Number of Shocks	Total number of shocks administered by the HeartSine samaritan PAD during the event.
Time from Power On to First Shock	Elapsed time from the HeartSine samaritan PAD being turned on until the first shock was delivered.

If you are using a HeartSine 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.

- Click Save to save the event data summary in a PDF document
- Enter the file name and select the location on your PC in which to save the file, and click Save.
- Click Close to close the Summary screen and return to the Event Viewer screen.
- 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.

- 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.

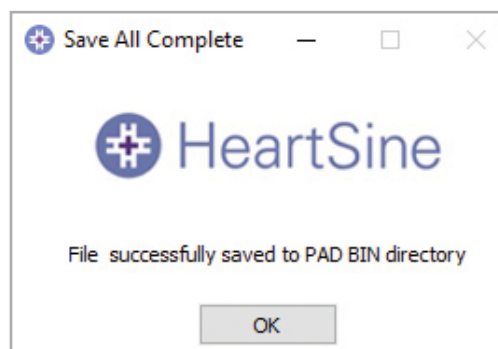


Figure 15. Save All confirmation screen

- Click OK to close the screen.

Erase event data

It is recommended that when event data has been retrieved from the HeartSine 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.

- From the Event Log List screen, click Erase.
- When prompted, enter your password and click Confirm. When the correct password is entered, the memory of the HeartSine 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 HeartSine samaritan PAD memory prior to erasing it. This information should be stored safely for future reference.

Change HeartSine samaritan PAD settings

From the Saver EVO PAD Access screen you can run diagnostic tests, view software settings, and change the following settings on your HeartSine 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 HeartSine 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.

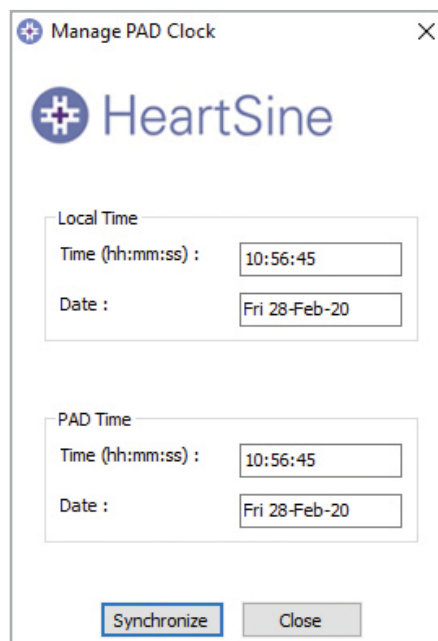


Figure 17. Manage PAD Clock screen

- Click Synchronize to set the time on the HeartSine samaritan PAD to the same time as the PC to which it is connected.
- 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 HeartSine samaritan PAD. The list of available diagnostic tests is accessed from the pull-down menu.

- Click Run Diagnostic Tests icon. The Diagnostic Tests screen opens.



Figure 18. Diagnostic tests screen

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

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 HeartSine samaritan PAD configuration

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

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

Enable/disable the metronome

- 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.

- 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 HeartSine 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:

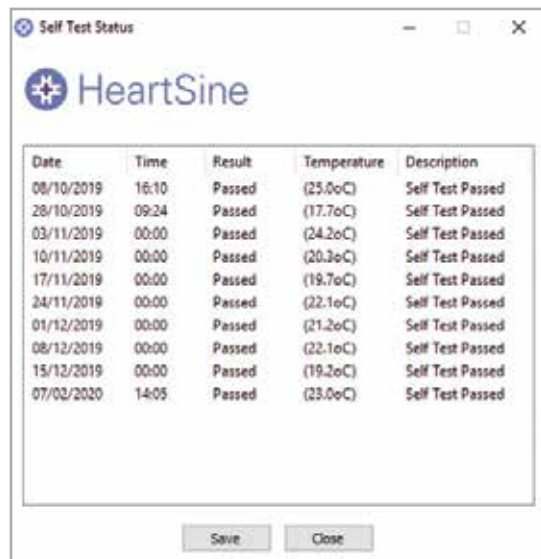
- Self Test Passed

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. It contains a table with the following data:

Date	Time	Result	Temperature	Description
08/10/2019	16:10	Passed	(25.0oC)	Self Test Passed
28/10/2019	09:24	Passed	(17.7oC)	Self Test Passed
03/11/2019	00:00	Passed	(24.2oC)	Self Test Passed
10/11/2019	00:00	Passed	(20.3oC)	Self Test Passed
17/11/2019	00:00	Passed	(19.7oC)	Self Test Passed
24/11/2019	00:00	Passed	(22.1oC)	Self Test Passed
01/12/2019	00:00	Passed	(21.2oC)	Self Test Passed
08/12/2019	00:00	Passed	(22.1oC)	Self Test Passed
15/12/2019	00:00	Passed	(19.2oC)	Self Test Passed
07/02/2020	14:05	Passed	(23.0oC)	Self Test Passed

At the bottom of the window are "Save" and "Close" buttons.

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 heartsinesupport@stryker.com

Manage saved events

You can review event data that has been downloaded from the HeartSine 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.

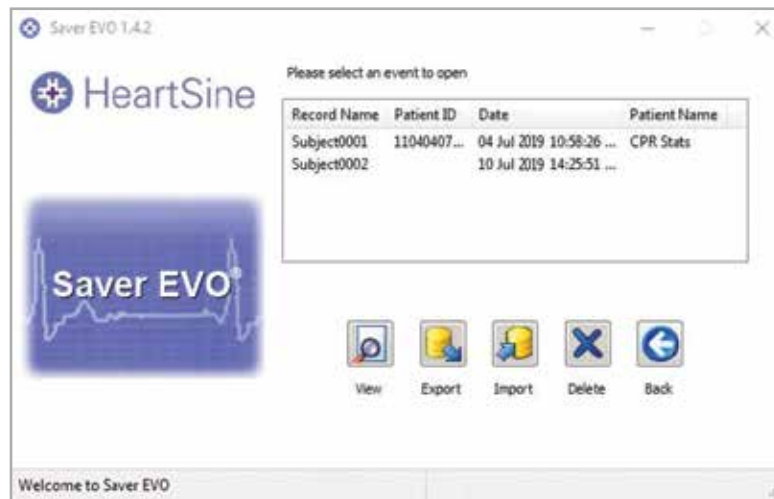


Figure 23. Managed saved events screen

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 HeartSine 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 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. Upon installation of Saver EVO, 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.

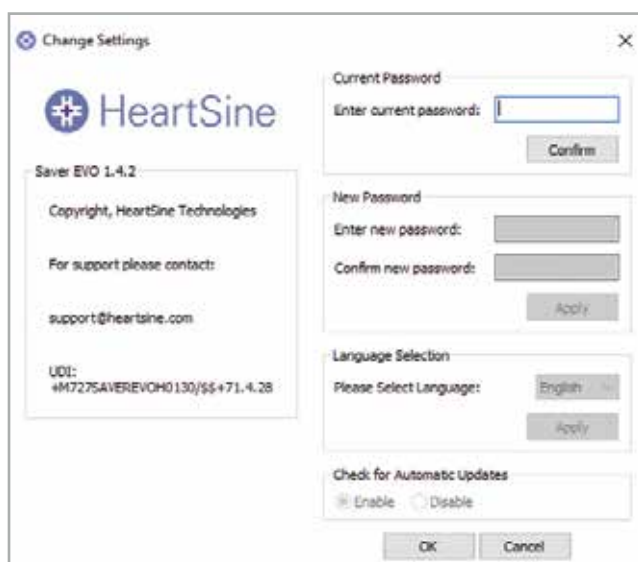


Figure 26. Change Settings screen

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.

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.

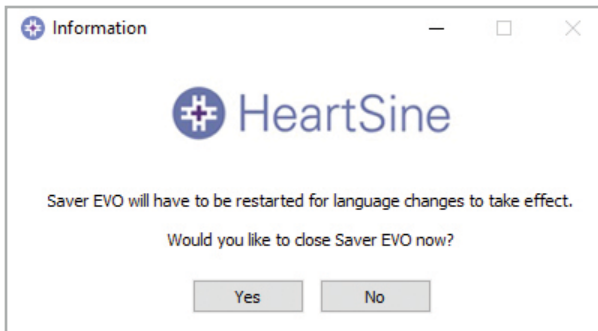


Figure 27. Language change confirmation screen

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.

Cyber security

- Ensure all Microsoft security patches are applied for your computer.
- Regularly back up your computer (including Saver EVO files).
- It is recommended that an anti-virus/anti-malware software is installed on your computer, is active and is kept up-to-date.
- Use a strong password to log on to your computer. Password should be in upper and lower case and include numbers and symbols.

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



HeartSine Technologies, Ltd.
203 Airport Road West
Belfast, BT3 9ED
United Kingdom
Tel +44 28 9093 9400
Fax +44 28 9093 9401

**U.S./Latin America
Customer Support**

11811 Willows Road NE
Redmond, WA, 98052 U.S.A.
Toll Free 866 478 7463
Tel +1 215 860 8100
Fax +1 215 860 8192

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