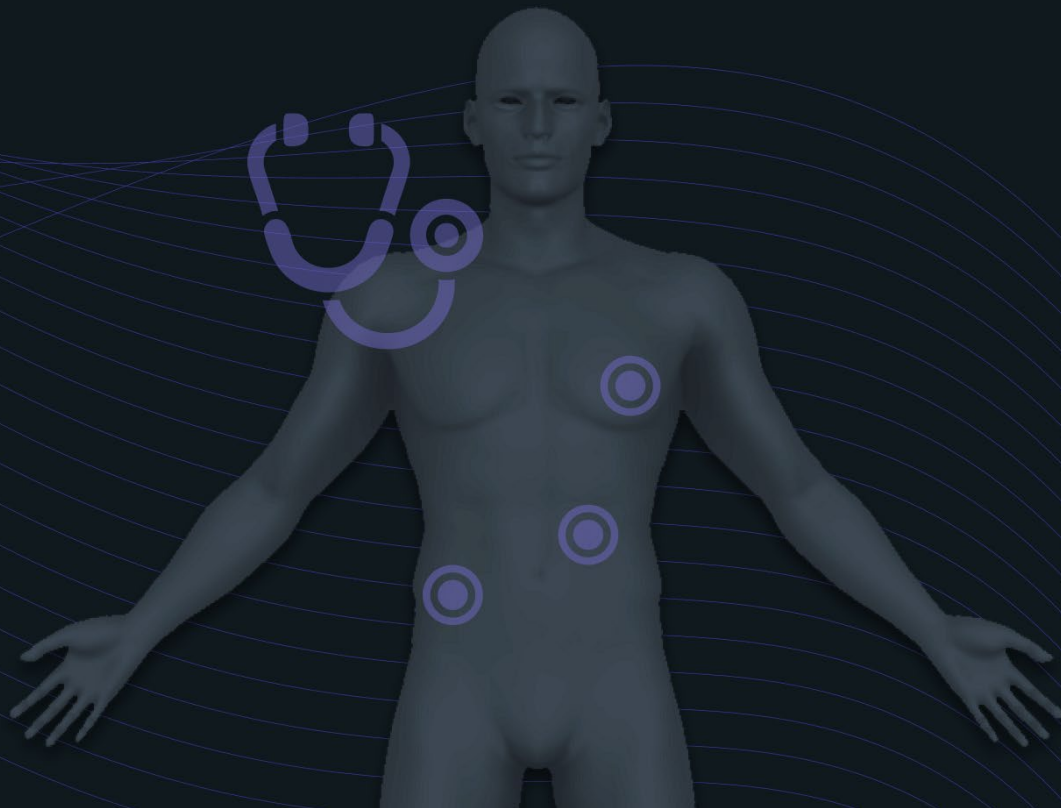




Evo AuRA

User Manual



Evo AuRA

User Manual

Product Information

Product Name: Evo AuRA Model

Number: 253K830000

FCC ID: Q7Y-253K58750X

IC: 10646A-253K58750X

Manufacturer: Elevate Healthcare

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1. Product Overview

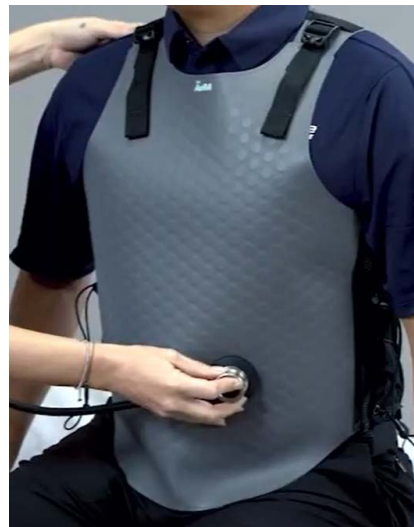
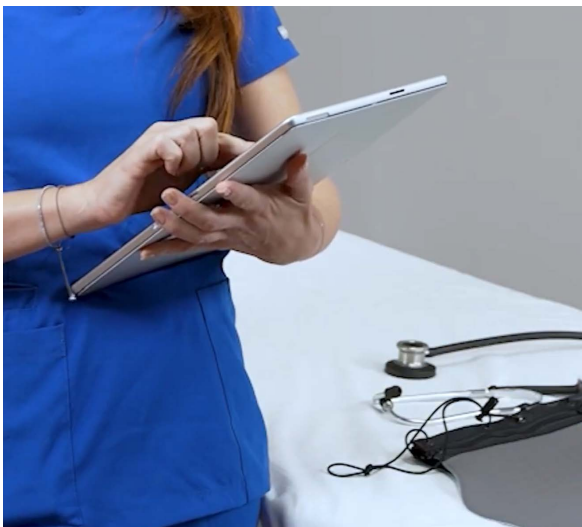
Elevate Healthcare's wearable auscultation trainer, **Evo AuRA**, powered by Evo Ecosystem technology, transforms training for nursing, medical, and allied health learners. This innovative device delivers lifelike heart, lung, and bowel sound simulations, enhancing outcomes in simulation centers and OSCEs with dynamic realism and seamless integration.

This medical simulation training solution enables realistic auscultation practice using a wearable garment equipped with Evo AuRA RFID matrices, a SimEquip Stethoscope, and a laptop-based UI. The core electronics are housed within the stethoscope, while the Evo AuRA functions as a passive wearable garment with RFID tags.

Evo AuRA aligns with Elevate Healthcare's mission to elevate the healthcare simulation industry with innovative solutions, both virtual and physical, that are flexible for every educational experience. Our solutions were created to meet the evolving needs of future healthcare workers while enhancing patient safety.

1.1. Basic Functions and Purpose

The Evo AuRA is intended for use by learners for gaining mastery of the skill of auscultating heart, lung and bowel sounds. It can be worn by a learner, a standardized patient or a simulator to simulate these sounds. There is a Conditions Library that allows instructors to provide students with a variety of normal and abnormal auscultation experiences to increase the students confidence in recognizing different patient conditions.



2. Package Contents

- SimEquip Stethoscope
- USB-A to USB-C charging cable
- Laptop with pre-installed software and power adaptor
- Quick Start Guide
- Ear tips



3. Installation & Setup

3.1. Fit Evo AuRA

Use the adjustment features on the Evo AuRA Garment to ensure a precise fit, with:

- Shoulder straps
- Zipper
- Side lace



Evo AuRA - front

3.2. Charging the Stethoscope

The stethoscope requires charging via the USB-C port. To charge the SimEquip Stethoscope, connect the power supply adapter to the USB cable and plug the USB-C end of the cable into the SimEquip Stethoscope. Plug the power supply adapter into a grounded power outlet.

- A full charge provides approximately 8 hours of operation
- Charging time from depleted to 100% is less than 2 hours
- Charging from 20% to 80% takes less than 1 hour



Note: If the stethoscope was previously on, the stethoscope's light should toggle between orange and purple. Once it's fully charged it will become solid purple. If it was previously off, the stethoscope's light will be solid orange and will turn off once fully charged. See **3.4 LED Indicators** section below.

3.3. Powering on and off the Stethoscope

The EVO AuRA operates in two primary modes:

- Connected mode for live teaching scenarios where instructors control everything in real-time.
- Autonomous for independent assessment where students can practice autonomously.

Powering On:

1. Press on the power button of the stethoscope.
2. The indicator light should blink blue before turning solid green.
3. Once solid green, the stethoscope is ready for use.

Powering Off:

To power off the stethoscope, you press and hold the power button for at least 1 second. The LED will turn off.

3.4. LED Indicators

Charging & Power States

LED State	Color	Stethoscope Status	Meaning
Solid Orange	Orange	Off	Charger connected (charging in progress)
Off	None	Off	Fully charged
Blinking Orange (1Hz)	Orange	Off	Battery charge error
Blinking Purple / Orange (250ms On/ 1750 ms off)	Light Purple / Orange	On	Charger connected (charging in progress)
Solid Purple	Light Purple	On	Fully charged

Operational & Connectivity States (USB Not connected)

LED State	Color	Meaning
Solid Blue	Blue	Stethoscope paired to a manikin's laptop/tablet or user holding button or Online mode - Live update of Stethoscope parameters via Aura App or Offline mode (connected) - stethoscope running autonomously from SD card configuration, connected and selected by Aura app.
Solid Green	Green	Offline mode - stethoscope running autonomously from SD card configuration
Blinking Orange (250ms On / 1750ms off)	Orange - Overlap	Low battery warning (<25%)
Solid Red	Red	Critical system error
Off	None	Stethoscope is turned Off and not being charged

4. How to Use the Evo AuRA Application

Autonomous Mode:

Use this mode for independent practice without connecting to the application. Steps:

1. Turn on the stethoscope (see Powering On).
2. Once the light is solid green, place the stethoscope directly over the EVO AuRA garment.
3. You will hear the physiological sounds.
4. To change sounds or conditions, switch to Connected Mode.

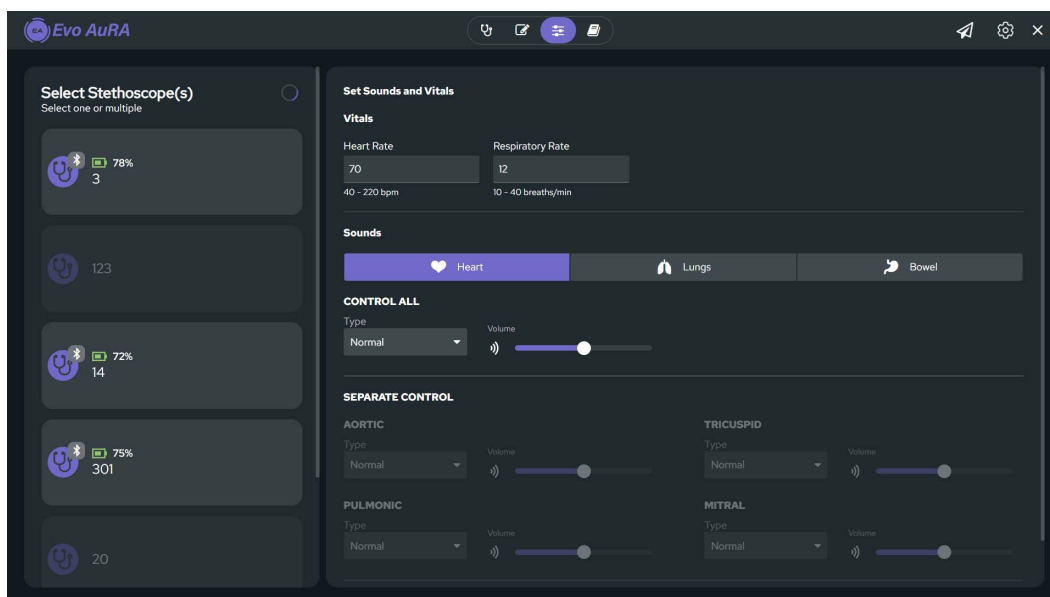
Connected Mode:

1. Turn on the stethoscope (see Powering On).
2. Open the EVO AuRA application.
3. Connect the stethoscope to the application via Bluetooth or USB cable.
4. Select the stethoscope.
5. You can now edit conditions, control scenarios, and monitor student interactions.

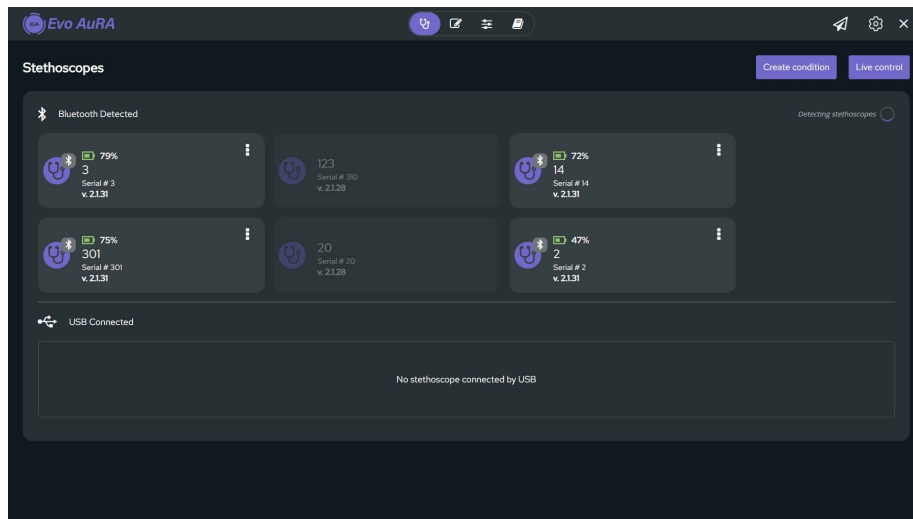
Here, there are two different ways to update the auscultation parameters (*sound type, sound volume, RR and HR*) on the Stethoscope. The first is to send a condition to the Stethoscope; either an existing condition from the Condition Library or a new condition from the Create Condition page. The second is to connect to a stethoscope via the Live Control page where on-the-fly adjustment to the auscultation parameters can be made.

On the Live Control page, you can select one or more Stethoscope and make on-the-fly adjustments to their auscultation parameters.

Note: only Stethoscopes connected via Bluetooth are available for selection on the Live Control page.



When first starting the AuRA application, the user will be on the connectivity page.



The Stethoscopes page displays the list of Bluetooth detected and USB connected Stethoscopes. The tile of the connected or detected Stethoscope displays information such as:

- Battery level and charging status
- Serial number and nickname (serial number by default)
- Firmware version number and indication if a firmware update is available
- Current condition

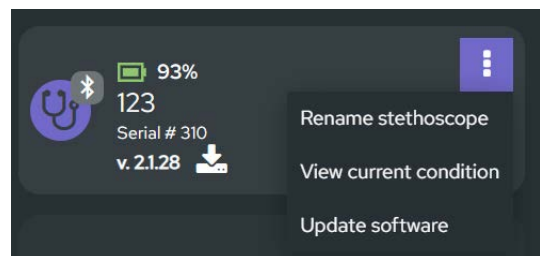
The Stethoscope tiles also have a 3-dot menu that allows editing of the stethoscope nickname, updating the firmware and viewing the details of the current condition.

How to update the firmware on the Stethoscope(s)

When the Evo AuRA Application software is updated, it could require that the embeded software (aka firmware) on the Stethoscope(s) also be updated.

The availability of a firmware update for a Stethoscope will be indicated by a download arrow next to the firmware version on the Stethoscope tile.

In order to update its firmware, a Stethoscope must be connected via USB cable. From the 3-dot menu on the Stethoscope tile, select 'Update Software'.



First the updated software will be copied to the Stethoscope, then it will install. It is very important not to disconnect or power off a Stethoscope during the download or installation of an update. During an active update, the Stethoscope LED will be flashing purple. Once the update is completed, the LED will return to solid green if USB cable is disconnected, or solid purple if USB cable is connected.

Once the update is installed, the Stethoscope must be power-cycled by turning it off and back on again.

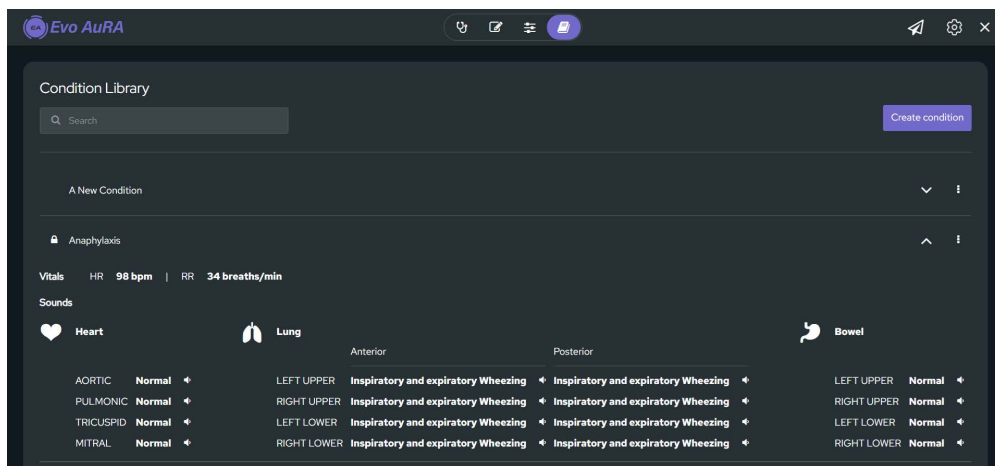
Create a Condition

The Create Condition page allows you to create a condition, save it to the condition library and optionally send it to Stethoscope(s).

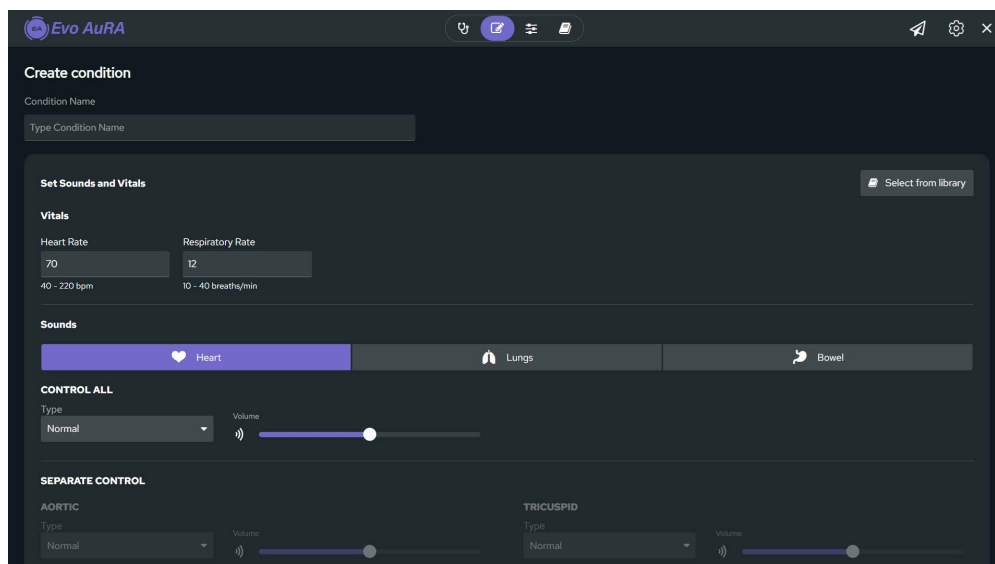
A condition consists of:

- A unique name
- Heart Rate and Respiratory Rate within a certain range. Note: only a fixed normal breathing patterns with a I:E ratio of 1:2 is supported.
- Sound Type and Sound Volume for each of the supported Heart, Anterior Lung, Posterior Lung and Abdominal auscultation

Create or select conditions from the library that match your training objectives.



Condition Library



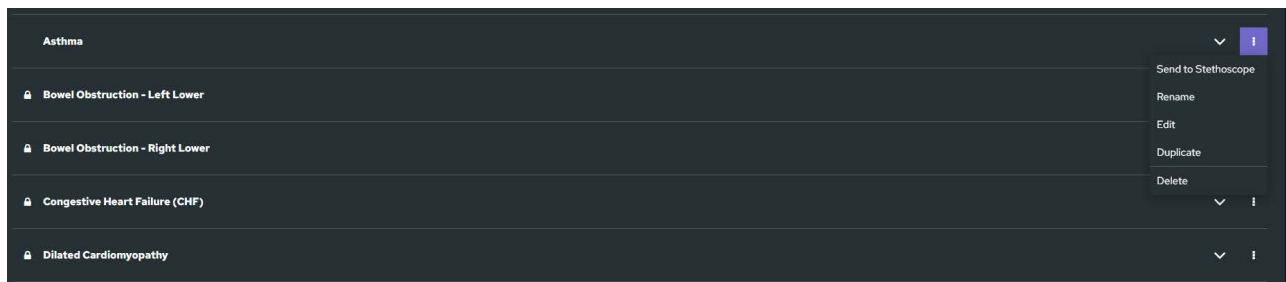
Create Condition

Condition Library

The Conditions Library page contains a list of all the pre-configured and user-created conditions. The conditions are listed in alphabetical order and the preconfigured conditions are identified with a lock icon.

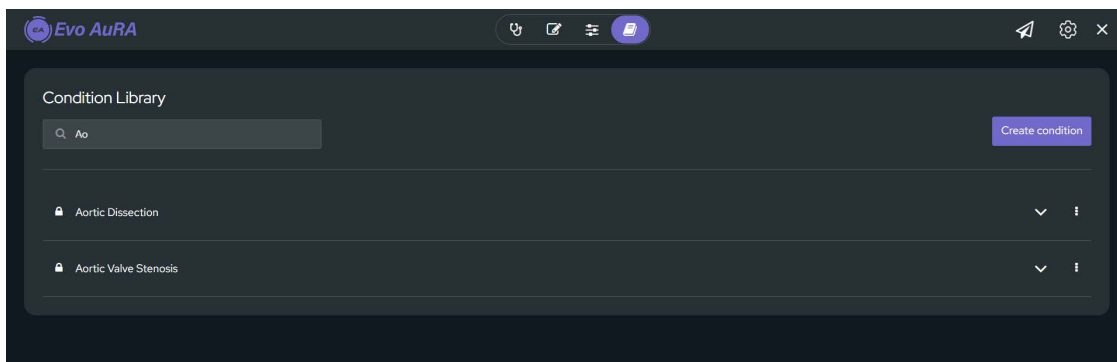
The expand arrow can be used to see the details of a condition. The 3-dot menu can be used to:

- Send the Condition to a Stethoscope
- Rename the Condition (user created only)
- Edit the Condition (user created only)
- Duplicate the Condition
- Delete the Condition (user created only)



Condition Library - Options

The Condition Library also includes a search box to facilitate finding a condition.

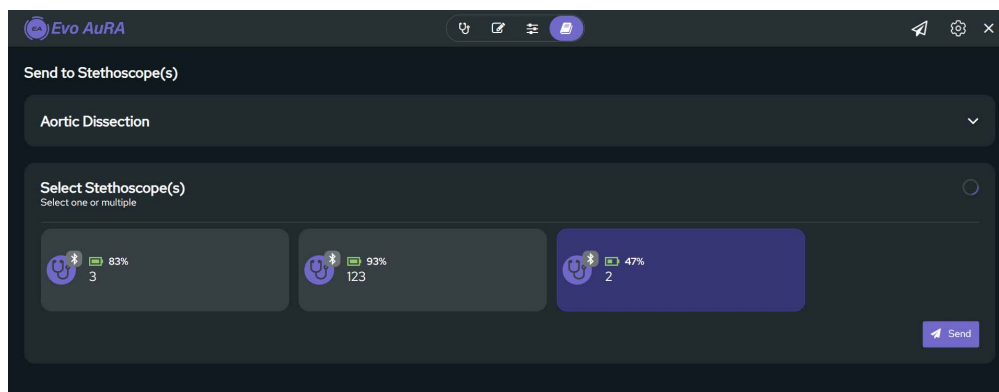


Condition Library - Search field

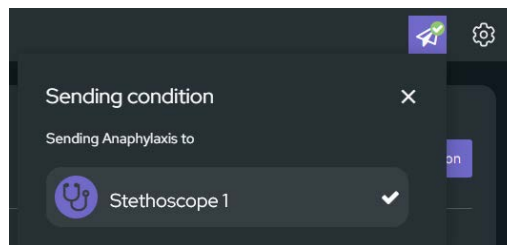
Send to Stethoscope(s)

Conditions can be sent to stethoscopes from the Condition Creation page as well as the Condition Library Page.

1. First select the tiles of the Stethoscopes to which to want to send the condition; selected tiles will turn blue.
2. Then hit the Send button.
3. The sending progress will be displayed and a notification will appears once it has been successfully sent to each selected stethoscope.



From the top toolbar a menu can be accessed which displays a summary of notifications for successful and unsuccessful sending of conditions to Stethoscopes.



IMPORTANT: The AuRA stethoscopes can only be connected to a single instance of the AuRA application at a time. When updating conditions or live controlling the stethoscopes, only a single instance of the AuRA application should be used in order to prevent errors related to multiple simultaneous connections.

5. Wireless Operation

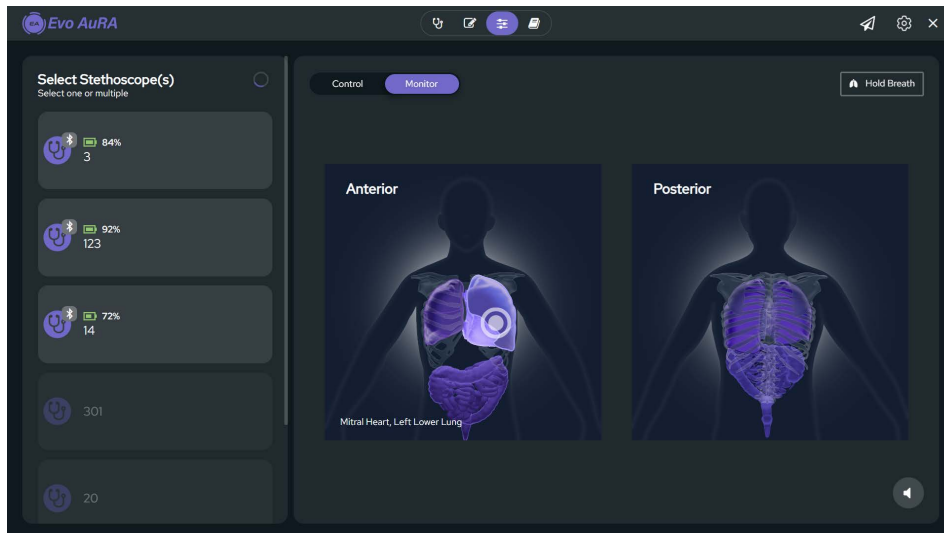
The Evo AuRA operates exclusively using Bluetooth Low Energy (Bluetooth 5.0 or higher) to communicate with the Evo AuRA Application, compatible with Windows-based devices (computers or tablets).

The SimEquip Stethoscope connects to the tablet/UI via Bluetooth Low Energy (BLE). The Evo AuRA garment and the Evo AuRA RFID matrices are passive and require no power or pairing.

Shared Auscultation Feature

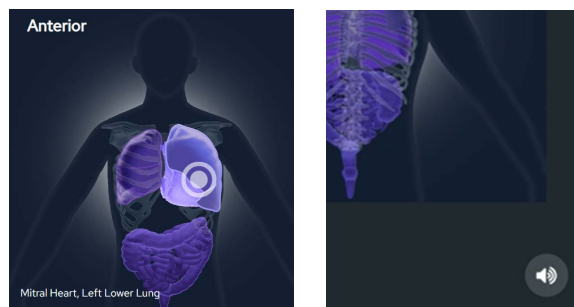
When a single stethoscope is selected on the Live Control page, the toggle control to navigate to the Live Monitoring page becomes available.

On the Live Monitoring page, the real time position of the stethoscope is shown. You can enable the "Shared Auscultation" feature (via the speaker icon), which will play the same sounds that are being heard in the Stethoscope.

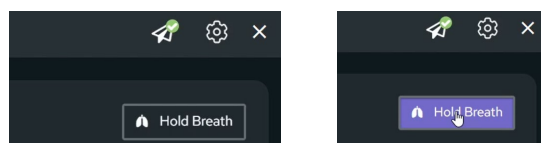


Note: When the "Shared Auscultation" feature is used to listen to the auscultation sounds on the instructor laptop, some sounds (e.g. the heart beats) may sound different than when listened to via the stethoscope. This is due to differences in the speaker characteristics. The sound characteristics of the 'Shared Auscultation' can be improved by using an external speaker which supports low frequency ranges.

As the stethoscope is moved, we see the real time position indicator moves along with it, and the current organ(s) being auscultated becomes highlighted. The same works for the posterior region.



Hold Breath button: When held down, the "Hold Breath" control will pause the lungs sounds; allowing the heart sounds to be better assessed. Letting go will resume the breath-sounds.



Installing the Software on a Different Device

Before installing Evo AuRA on your own computer, make sure your computer meets the following minimum requirements:

- Operating system: Windows 11 64-bit
- Processor: at least 1.2 GHz performance-core base frequency with at least 4.2 GHz max turbo frequency (e.g. Intel based 3-100U, AMD Ryzen 5, or better)
- RAM: at least 8 GB
- Hard drive: at least 256 GB
- Resolution: supports 1920x1080
- Bluetooth 5.0 and later (to ensure it supports BLE)
- At least one USB port (A or C; note the USB cable for the Stethoscope has a USB-A connection on the computer side)
- Optional touch screen

Log In and Download the Software

SimPort Account Setup

After your order is processed, the Elevate Healthcare team will create your SimPort account.

- An invitation email will be sent to the registered point of contact for your location. This email will include a setup link and a verification code needed to personalize your account.

Tip: If you do not see the email, please check your junk or spam folder.

1. Open your web browser and go to:
<https://simport.elevatehealth.net/>
2. Log in to your SimPort account.
3. From the main menu, select **Software Update**.
4. Locate and download the Evo AuRA software.

If your organization is associated with an Evo AuRA product, any available software updates will appear automatically.

Additional User Accounts

A designated **organizational administrator** can create additional user accounts as needed. When a new account is created, the user will receive a setup email similar to the original invitation.

6. Regulatory Notices

6.1. FCC Compliance Disclaimer (Class A)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

 **Note:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

6.2. FCC RF Exposure Statement (SAR - Limb)

This device complies with FCC radiation exposure limits for **uncontrolled environments**. The Specific Absorption Rate (SAR) limit for extremities (hands, wrists, feet, ankles) is 4.0 W/kg averaged over 10 g of tissue. SAR compliance for limb-worn use was demonstrated via calculations using the device's highest certified transmit power, with the device positioned directly against the limb at 0 mm separation, in accordance with FCC evaluation procedures specified in 47 C.F.R. § 1.1310(c) and § 2.1093, and consistent with OET and KDB guidance.

6.3. ISED Non-interference Disclaimer

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
 - (2) This device must accept any interference, including interference that may cause undesired operation of the device.
- This device complies with the Canadian ICES-003 Class A specifications. CAN ICES-003(A) / NMB-003(A).

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempt de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
 - (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
- Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

6.4. ISED RF Exposure Statement (SAR - Limb)

This equipment complies with Innovation, Science and Economic Development Canada (ISED) RF exposure limits. The Specific Absorption Rate (SAR) measures RF energy absorbed by the body; for limb-worn devices, the limit is 4.0 W/kg averaged over 10 g of tissue. Compliance was demonstrated using calculations, with the device positioned against the limb at a 0 mm separation distance.

Cet équipement est conforme aux limites d'exposition aux radiofréquences (RF) établies par Innovation, Sciences et Développement économique Canada (ISDE). Le débit d'absorption spécifique (DAS) mesure l'énergie RF absorbée par le corps; pour les dispositifs portés sur les membres, la limite est de 4,0 W/kg, moyenne sur 10 g de tissu. La conformité a été démontrée par calculs, l'appareil étant positionné contre le membre avec une distance de séparation de 0 mm.

7. Certifications and Approvals

FCC ID: Q7Y-253K58750X

IC: 10646A-253K58750X

Contains Rigado R41Z-TA-5 BLE 4.2 Certified Module

FCC: 2AA9B07 (FCC part 15 modular certification)

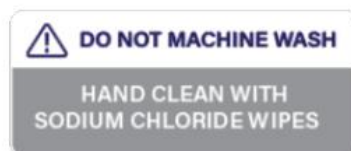
IC: 12208A-07 (Industry Canada RSS-210 modular certification)

Complies with applicable FCC Part 15.225 and ISSED RSS-210 Annex B.6 standards

8. Safety and Maintenance

- **Do not launder Evo AuRA Garment.** May wipe off with chlorine wipes. Leave to air dry.
- Clean the stethoscope with a soft, dry cloth or disinfectant wipes; do not immerse.
- Do not expose the device to fire or excessive heat.

Note: Only use supplied or certified accessories.



Care Instructions Tag on Evo AuRA

Support & Contact Information

For more information about Elevate Healthcare products, contact your regional sales manager or distributor, or visit elevatehealth.net.

Tel: +1 941-377-5562 or 866-233-6384 (General Inquiries)

Customer Support Headquarters - United States and Canada:

Monday - Friday from 7:00 a.m. to 6:00 p.m. ET

Phone: 1-866-462-7920

Email: srqcustomerservice@elevatehealth.net

Customer Support - Europe, Middle East, and Africa:

Monday - Friday from 8:00 a.m. to 5:00 p.m. CET

Phone: +49 (0 6131 4950354

Email: international.service@elevatehealth.net

