

# Avtone

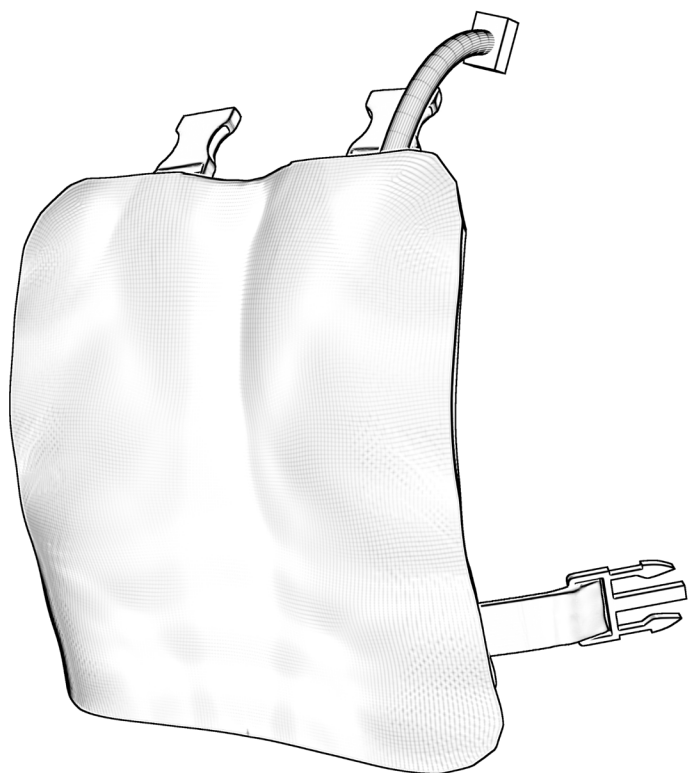
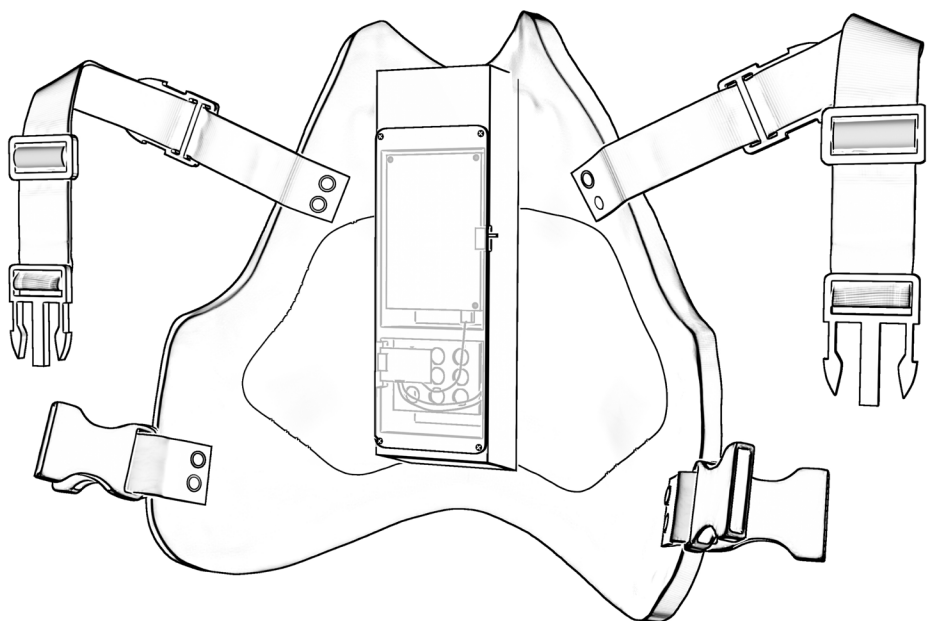
*Wearable Auscultation Simulator*

## USER MANUAL



**Customer Assistance**  
302-562-2110

**Technical Support**  
302-562-2040






# WELCOME TO YOUR AVTONE!


## ANTERIOR HEART SOUNDS\*

five heart sound locations can be controlled through the Avkin App

## ANTERIOR AND POSTERIOR LUNG SOUNDS\*\*

four lung sound locations on the anterior and posterior chestplates can be controlled through the Avkin App

\*Heart sounds provided by our partner, eMurmur 

\*\* Lung sounds provided by our partners,  **Thinklabs**  
Digital Stethoscopes  
and **R.A.L.E. Lung Sounds**

# WHAT'S INCLUDED

- ✓ Avtone: wearable heart and lung sound simulator for use with simulated participants.
- ✓ Micro USB charger

## App Reminders:

- Enable location services on your smartphone or tablet before connecting your Avband to the Avkin App
- The tablet is preset so that it will not go to sleep while using the Avkin app. Do not press the tablet's lock button, as this will also suspend notifications.
- Set your font size on your smartphone or tablet to default or normal for proper viewing of the app. Larger font sizes can dysregulate functionality.

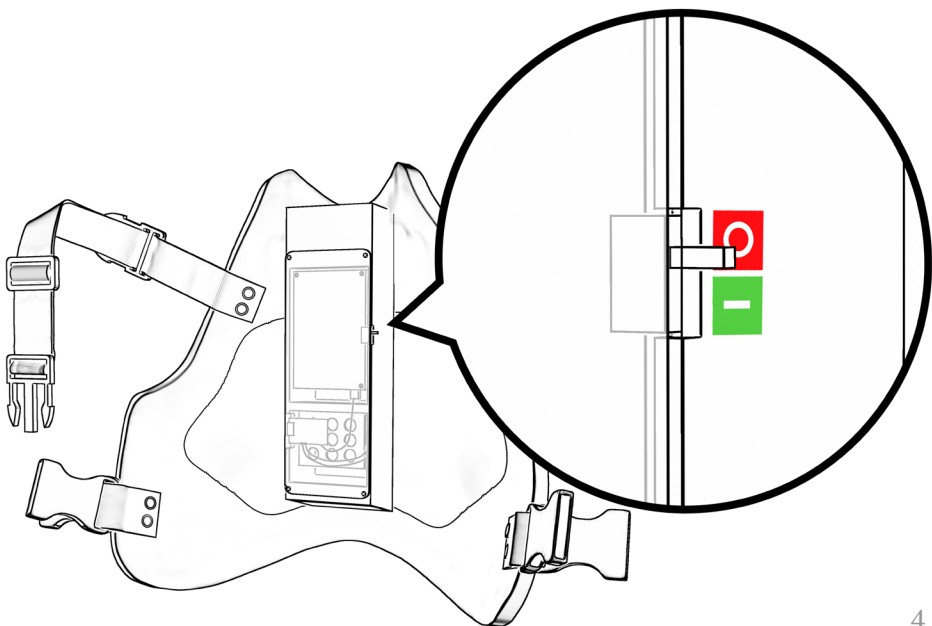
# GETTING STARTED

Watch the instructional video on the customer portal and USB.

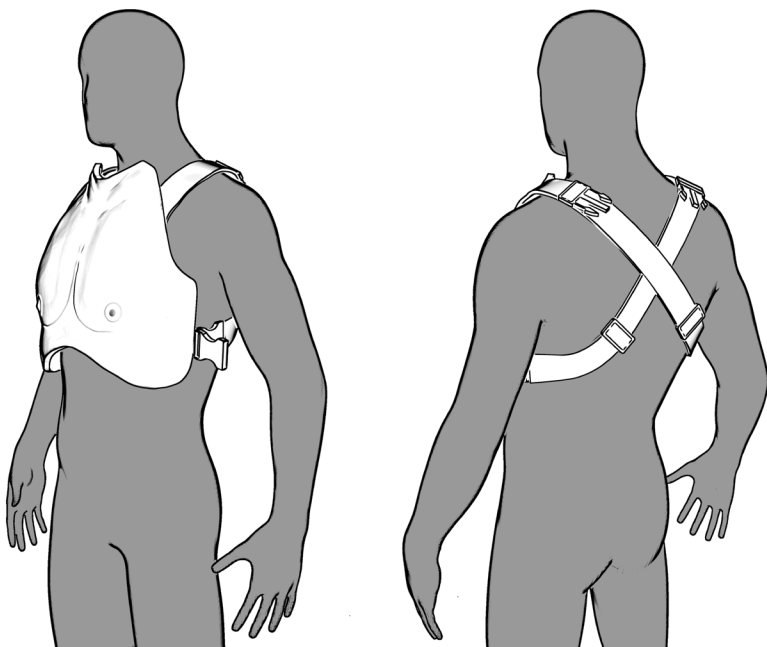
- 1 Download the “Avkin” App on your Apple or Android device.



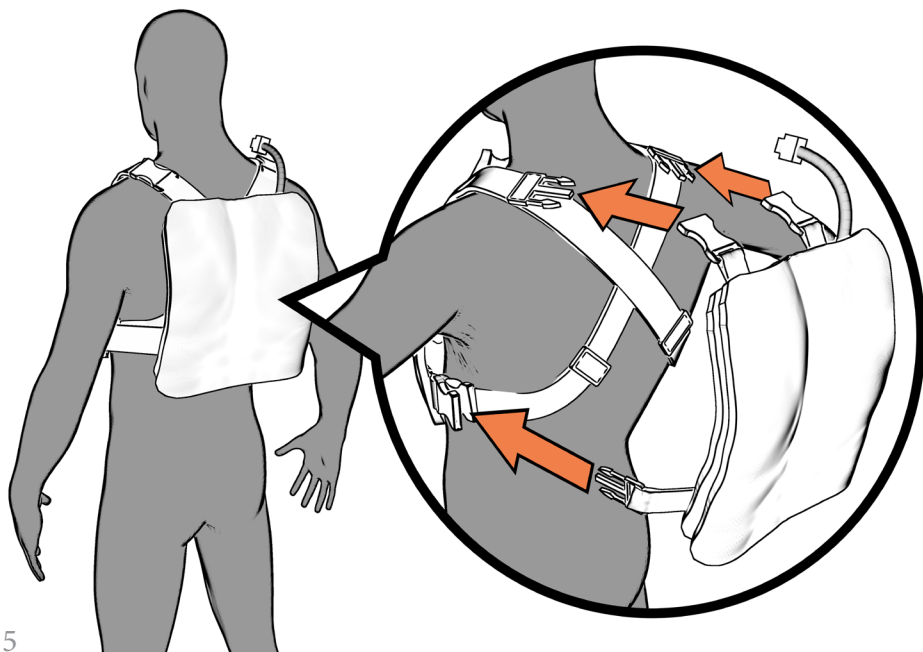
- 2 Turn on the device.



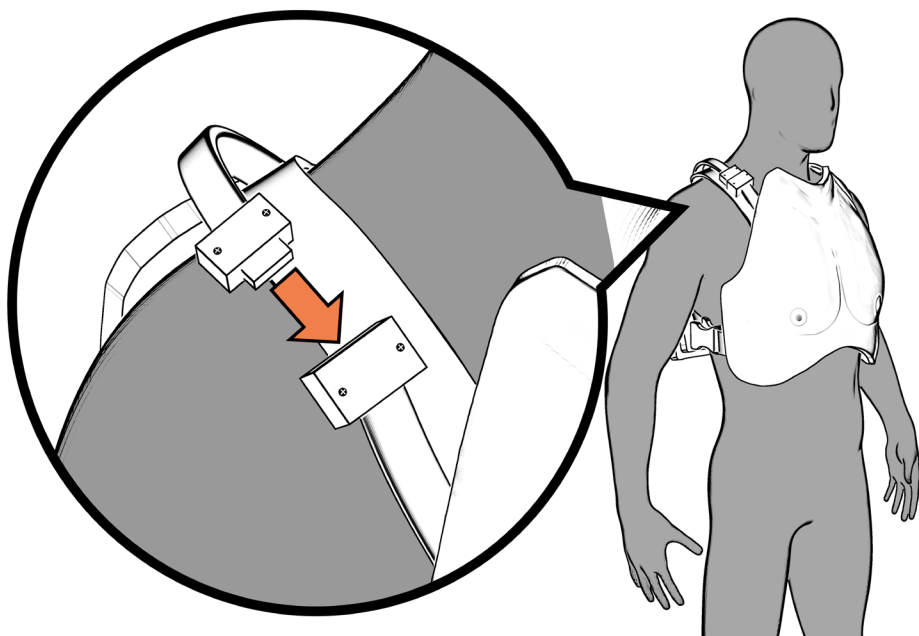
- 3** Put the chestplate on your SP, crossing the straps in the back.



- 4** Buckle in the backplate to the strap of the chestplate



- 5** Connect the electrical connection from the chestplate to the backplate.



- 6** Turn on Bluetooth on your apple or android device.

- 7** Open the Avkin App, select your Avtone serial number (located on the chestplate) to connect to your device.

# CARE AND MAINTENANCE

- 1 Remove any marks or moulage from silicone chest using a white wipe or hand sanitizer.
- 2 Wipe down inside foam on backplate and chestplate assembly on chestplate with a sanitized wet wipe.

## TO CLEAN EXTERIOR

- 1 Use a damp lint-free cloth to clean off the silicone chest. Once dry, dust with baby powder or corn starch to remove tackiness. Add cocoa powder to the corn starch if you have a dark skin tone Avtrach.
- 2 Wipe down black plastic backing with slightly moist disinfectant wipes.

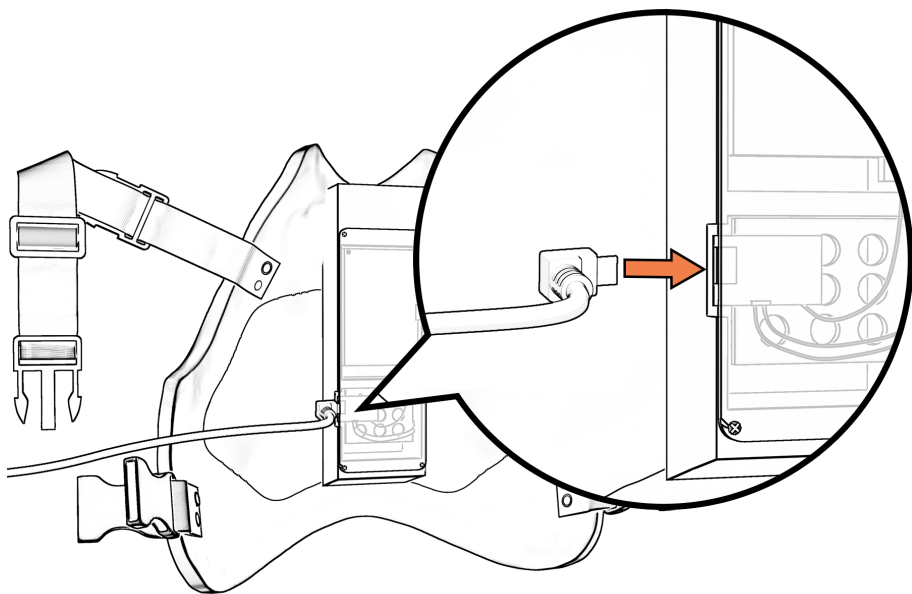
# CHARGING

On the Avkin App, a battery percentage is displayed at the top of the App.

When the battery is at 10% power, the light on the back of Avtone turns red indicating the device needs to be charged.

The Avtone battery lasts up to 2 full simulation days (16 hours total). The battery requires up to 8 hours to fully charge.

Plug the charger provided in the back of the Avtone.



The light will turn yellow when charging and green when charge is complete.



# AVTONE BATTERY SAFETY GUIDELINES



The Avtone contains a rechargeable 3.7/4.2V Lithium Ion Polymer Battery that could cause injury if mishandled. Follow the proper handling procedures for the Avtone and the Avtone charger:

- Charge the Avtone only with a USB micro cable attached to a USB wall adapter - this is what Avkin provides with the Avtone
- Do not charge or use unattended
- When charging, keep away any flammable or conductive materials (ex: textiles, paper, metal, etc.)
- Do not disassemble the Avtone battery or charging circuitry (small blue board above the battery)
- Do not puncture the Avtone battery
- Do not immerse the Avtone in water or other liquids
- Do not expose the Avtone to:
  - Extremely cold temperatures (below freezing, 32 deg F)
  - Extremely hot temperatures (above 130 deg F)
  - Direct sunlight
  - Hot vehicles
- Do not expose the Avtone to mechanical impact (ex: throwing, dropping, etc.)
- Do not use the Avtone if the battery is damaged
  - Call Avkin for a replacement battery if needed
- Store the Avtone in a cool, dry place
- Keep the Avtone away from children - it is not a toy
- Refer to FAA guidelines for airplane transportation of devices with installed lithium batteries:
  - Turn the Avtone completely off (power switch on the side of the chestpate housing)
    - It is off when the blue light on the charging circuitry is off
  - Protect it from accidental power-on
  - Pack it to cushion it from damage

Avtone is provided by:



[www.avkin.com](http://www.avkin.com)