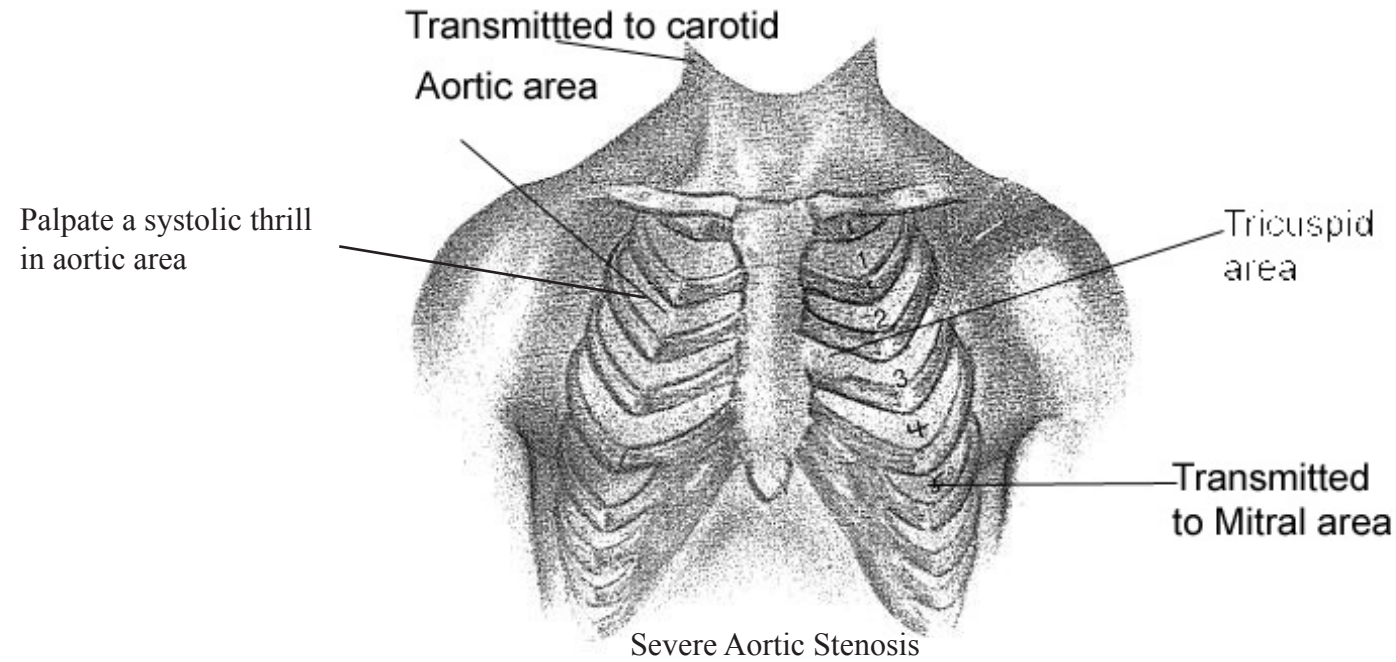


## Lessons on Every Sound

Lesson are provided with every sound and accessed with a single keystroke. Lessons include discussion of the sound, schematic of the chest, phonocardiograms, questions and answers.

## Thrills Palpated

Students palpate murmurs of Severe Aortic Stenosis and Ventricular Septal Defect to determine the grade of the murmur.



## Preprogrammed Lectures

Instructors preprogram their lectures for a smoother presentation. Instructors have multiple lectures that can be edited, saved and recalled at any time.

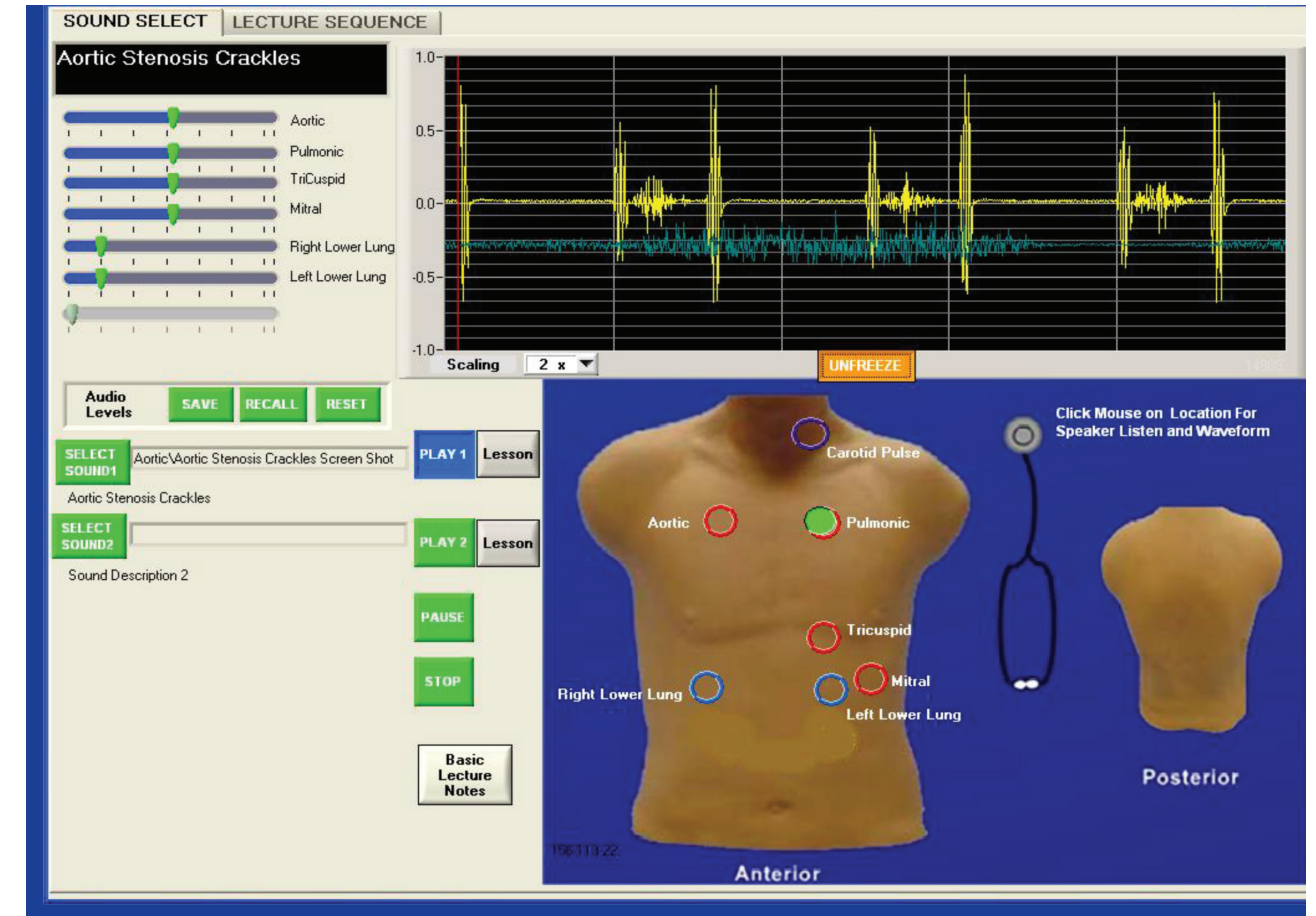
## Optional Items

- SAM On-Line (for student practice)
- SimulScope Bedside Auscultation System (group instruction)
- Arterial Pulse Training System

## Ordering Information

Cat. No.	Description
718-9007	SAM Student Auscultation Manikin®
717-9000	SAM On-Line
718-7003	SimulScope® Bedside Auscultation System
718-0015	Classroom Infrared Emitter
718-4006	Auditorium Infrared Sound System
718-7040	HeartMan® Infrared Headphones
718-7000	E-Scope® Electronic Stethoscope
718-2700	CardioSim® VII Digital Sound Simulator
718-6200	PneumoSim™ Digital Breath Sound Sim.
711-9300	Clinical Heart Disease by Proctor Harvey, M.D.

# SAM II, the Student Auscultation Manikin



- Sounds - 27 Heart, 21 Breath, 20 Bowel, 4 carotid bruits
- Listen with your own stethoscope at correct anatomical site
- Play Heart & Breath Sounds simultaneously or separately **Teach and Test Assessment Skills**
- View phonocardiogram with every sound for easy identification of systolic and diastolic murmurs
- Instructors preprogram lectures for smoother presentation
- Test sounds included for assessment
- SAM On-Line available 24/7 for students of SAM customers

## Cardionics, Inc.

910 Bay Star Blvd., Webster, Texas 77598 USA  
 Telephone: 281-488-5901 Toll free US & Canada 800-364-5901 email: Info@Cardionics.com  
 Web site: www.cardionics.com

# SAM II, the Student Auscultation Manikin



Phonocardiogram Displayed with Heart Sounds

**Phonocardiographic Display.** SAM II presents a phonocardiogram with every heart sound. Instructors project the phonocardiograms for full audience viewing. When heart and breath sounds are heard simultaneously, two channels are displayed.

## Listen to SAM with Your Own Stethoscope

SAM presents 27 heart sounds, 21 breath sounds, 20 bowel sounds, 4 carotid bruits and a carotid pulse timed with the onset of systole. Some heart sounds have breath sounds included. The sounds are located in the correct anatomical site. Heart sounds are located at the aortic, pulmonic, tricuspid and mitral areas. Breath sounds are upper and lower right and left chest and four posterior sites. Bowel sounds are in the upper right and left quadrants. There is one site for carotid bruits in the neck. Breath sounds can be diminished at the lower lung while maintaining normal volume at the upper chest to present a variety of clinical conditions. When listening to a split  $S_2$  in the pulmonic area, breath sounds are heard simultaneously. Students learn that  $S_2$  splits on inspiration and closes on expiration. Instructors maintain control over the volume at each listening site.



SAM On-Line

Students access SAM On-Line 24/7 from any PC connected to the Internet. Repetition assists students in learning, relearning or refreshing their auscultation skills. SAM On-Line has same sounds as SAM. Comparison of sounds is available and easy to access.



The key to Patient Assessment



## Class Teaching with the SimulScope

Group teaching in a classroom or auditorium is easily accomplished. Place the stethoscope on SAM with students and instructor wearing Wireless HeartMan Infrared Headphones. Everyone hears simultaneously with perfect clarity.

The instructor knows exactly what students are hearing. Group teaching can be performed with the SimulScope, Classroom Infrared Emitter, Auditorium Infrared Sound System Wireless E-Scope Electronics Stethoscope or the Cardionics Low-frequency Speaker System. The SimulScope or Classroom Infrared Emitter will accommodate groups of 25-30 while the Auditorium Infrared Sound System can handle from 1 to 500.

## Identify Systole by Carotid Pulse Palpation

When assessing heart sounds, it is essential to differentiate systole from diastole. Because systole begins with the first heart sound ( $S_1$ ), SAM has a carotid pulse timed with each first heart sound. Students palpate SAM's carotid pulse while listening to heart sounds.

