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

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

SAM II, the Student Auscultation Manikin
Teach and Test Assessment Skills
- 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
- View phonocardiogram with every sound for easy identification of systolic and diastolic murmurs
- Instructors preprogram lectures for every sound 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 Student Auscultation Manikin, CardioSim, SimulScope, HeartMan, E-Scope & Cardionics are registered trademarks of Cardionics, Inc., Webster, Texas. PneumoSim™ is a trademark of Cardionics, Inc. Webster, Texas 77598.
SAM II, the Student Auscultation Manikin

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.

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.

The key to Patient Assessment

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.