

SAM Senior and SAM Junior

There are three models of SAM - SAM Complete, SAM Senior and SAM Junior. These models permit SAM to fit into almost any budget. SAM Junior (shown at right) does not have a carotid pulse or heavy base for upright use. SAM Senior is the same as SAM Complete except for the number of sounds supplied and several other options.

Complete Learning Guide

Every SAM model is supplied with a complete learning guide with tabs for ease of use. Every sound at each anatomical site is described and a phonocardiogram is displayed for all cardiac sounds.

Group Instruction with SimulScope



SimulScope Bedside Auscultation System
(supplied with wireless HeartMan® IR Headphones)

For classrooms up to 25 students, sounds can be heard and simultaneously seen using the SimulScope and pocketMonitor software.



SAM Junior, the Student Auscultation Manikin
(supplied without pulse or upright base)

Ordering Information

Cat. No.	DESCRIPTION
718-9007	SAM Complete, the Student Auscultation Manikin
718-9006	SAM Senior, the Student Auscultation Manikin
718-9005	SAM Junior, the Student Auscultation Manikin
718-7003	SimulScope® Bedside Auscultation System
718-0015	Classroom Infrared Emitter
718-4006	Auditorium Infrared Sound System
718-7040	HeartMan® Infrared Headphones
718-7030	pocketMonitor for PC Phonocardiographic Display
718-7120	E-Scope® Electronic Stethoscope
718-2700	CardioSim® VII Digital Sound Simulator
718-6200	PneumoSim Digital Breath Sound Simulator

CD-ROMs	DESCRIPTION
717-9147	Learning Cardiac Auscultation
717-9148	Learning Lung Sounds
717-9010	Learning Arrhythmia Recognition
717-9136	Learning Electrocardiography
717-9146	Learning Cardiology (coronary artery & valvular heart disease)

SAM, the Student Auscultation Manikin™



Group instruction using the SimulScope® Infrared Auscultation System and Wireless HeartMan® Infrared Headphones

- Presents heart, bruit, breath and bowel sounds at correct anatomical site
- Group listening with SimulScope, Classroom Infrared Emitter or Low Frequency Speaker System
- Presents carotid pulse timed with onset of systole
- Self-teaching - Students listen with their own Stethoscope
- Visualize heart sounds phonocardiogram simultaneously while listening
- Instructor and student listen together with E-Scope Electronic Stethoscope
- Allows lower lung sounds to be diminished, if desired

Teach and Test Auscultation Skills

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SAM, the Student Auscultation Manikin



Group Teaching with SimulScope

Group teaching in a classroom or auditorium is easily accomplished. Just place the stethoscope on SAM with students and instructor wearing wireless HeartMan Infrared Headphones and everyone hears 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 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 up to 500.

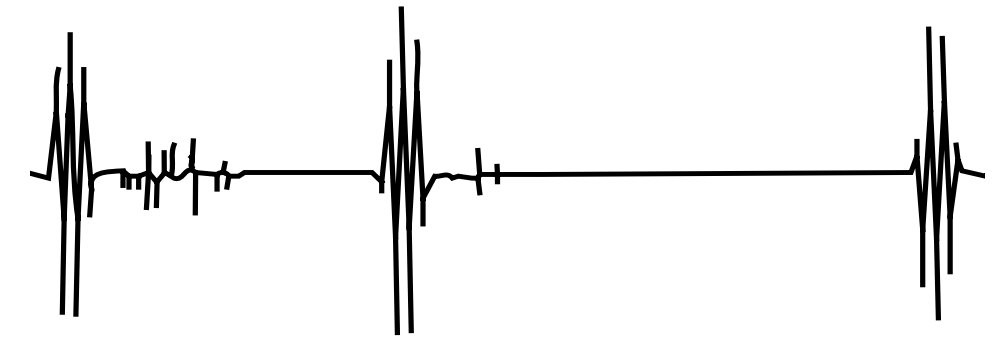


Listening to SAM with Your Own Stethoscope

SAM presents over 20 heart sounds, 20 breath sounds, 20 bowel sounds, several carotid bruits and a carotid pulse that is timed with the onset of systole. The sounds are located in the correct anatomical site. There are four listening sites for heart sounds, eight sites for breath sounds, two sites for bowel sounds and one site for carotid bruits. Breath sounds can be diminished at the lower lung, if desired, to present a variety of clinical conditions. When listening to splitting of the second sound, breath sounds are superimposed in the pulmonic area so the student will learn that S2 splits on inspiration and closes on expiration. The instructor has control over the volume at each listening site.



The key to Physical Diagnosis



Display of sounds

The sounds of SAM can be displayed as a phonocardiogram using either the CardioSim® or the pocketMonitor™ for PC software. Just install the pocketMonitor software for PC on any current laptop or PC computer. When students visualize the sounds (as a phonocardiogram) while simultaneously hearing them, they learn where clicks and murmurs occur in the cardiac cycle. Sounds can be projected from the PC on a large screen permitting full audience viewing.

Testing with SAM

A series of cardiac test modules are available for student testing.



Palpating the carotid pulse

Finding 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 (S1), SAM has a carotid pulse timed with each S1. Students palpate SAM's carotid pulse while listening to heart sounds.