



 24 real sounds  
from live patients

 > Now in 7 different languages!

## Cardionics Auscultation Manikins **SAM II® AND SAM 3G®**

SAM II® and SAM 3G® auscultation manikins are the perfect solution for basic and advanced skill training. Both can be used with any stethoscope and offer the largest library of heart, arrhythmia, lung, bowel, and bruit sounds. In addition, the software includes case videos, ECG waveforms and the sounds can be played via an external speaker system.



### MAIN FEATURES OF SAM II® AND 3G® MANIKINS:

- + Include the extensive Cardionics proprietary library of heart, lung, bowel, and bruit sounds
- + Use any stethoscope to listen at anatomically correct auscultation sites
- + Customizable to fit specific scenarios and programs
- + Portable and light weight
- + Easy to use
- + Light and dark skin versions available
- + WiFi upgrade available allowing for remote selection of sound scenarios

### Good to know: Comprehensive Sound Library

- Any stethoscope can be used to listen to and identify sounds from anterior and posterior auscultation sites (15 locations).
- SAM II® includes 76 clear auscultation sounds and SAM 3G® includes additional 24 real sounds from live patients.
- A complete Lesson Guide for auscultation is included with both SAM II® and SAM 3G® with instructions for each sound.
- **NEW: All SAM manikins now include COVID-19 sounds**



*Carotid pulse*



*Posterior and anterior auscultation with any stethoscope*

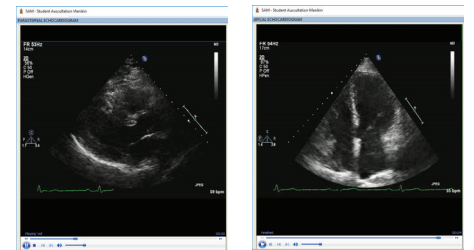


*Available in different skin tones*

### SAM II® or SAM 3G® – What is the difference?

While SAM II® is already a highly advanced auscultation-training manikin, the newly updated 3G® (3<sup>rd</sup> generation) version offers the following additional features:

- Includes 24 REAL sounds from patients to practice and test highly advanced auscultation skills during life-like simulations
- Includes 12 echocardiogram videos and 24 case videos
- Users can create their own case videos



*SAM 3G® includes echocardiogram videos*



**TIP:** If you already own a SAM II®, you can choose from the new features above to upgrade your manikin. Each new feature can be upgraded separately or as a bundle. Please contact us to find out more.

Upgrade Packages for SAM II® to turn into SAM 3G®:

- Echocardiogram Videos
- Case Studies Videos
- Real Sounds Library

**▶ GET ALL THREE UPGRADE PACKAGES AND TURN YOUR SAM II® INTO SAM 3G®!**

## Feature Comparison SAM II® and SAM 3G®

SAM II®		SAM 3G®
S27940	Item No.	S27953
<b>Auscultation sites</b>		
4	Heart	4
8	Lung	8
2	Bowel	2
1	Bruit	1
<b>Auscultation sounds</b>		
35	Heart	49
24	Lung	34
11	Bowel	11
6	Bruit	6
<b>Software</b>		
✓	Phonocardiogram	✓
0	Sounds in the Real Sound Library	24
0	Echocardiogram Videos	12
0	Case Videos	24
–	Users can create and save own videos	✓
✓	Users can setup password protected lectures	✓
-	SAM Online license included	✓
<b>Hardware</b>		
✓	Laptop with pre-installed software	✓
✓	Carotid pulse	✓
✓	Can be connected to the speaker system 1021753 for group instruction	✓
✓	Use any stethoscope	✓
✓	Available in different skin tones	✓



## WHAT OUR CUSTOMERS ARE SAYING ABOUT SAM AUSCULTATION MANIKINS:

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“With 1200 students a year using them, the SAMs are my most useful tool. They are very dependable and functional. ... Seeing that “aha” moment when it all comes together for our students is very gratifying. It is proof that we’re improving their educational experience.”



Linda A. Mason Barber, PhD, RN, ANP-C; Assistant Professor; University of West Georgia



Bill Boudreaux, EdD, RN, CEN; Assistant Professor/Medical Educator; Office of Clinical Simulation, UTMB School of Medicine

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“We are educating undergraduate nurses to become leaders in their field. Advanced skills training goes a long way in attaining that goal. ... I enjoy seeing my student’s eyes pop when they hear an aortic stenosis on SAM for the first time.”



SAM 3G® INCLUDES THESE REAL SOUNDS FOR HIGHLY ADVANCED AUSCULTATION TRAINING:

Category	Description
<b>Real Normal Heart Sounds</b>	Normal S1 S2 75 Bpm
	Physiological Splitting of S2 UM 70 BPM
<b>Real Heart Sounds Conditions</b>	Aortic Septal Defect S1 S2 80 BPM
	Central Shunt UM 150 BPM
	Innocent Murmur S1 S2 85 BPM
	Mitral Regurgitation S1 S2 95 BPM
	MVP S1 S2 90 BPM
	Patent Ductus Arteriosus UM 96 BPM
	Patent Ductus Arteriosus S1 S2 95 BPM
	Pulmonary Stenosis and Patent Ductus Arteriosus UM 138 BPM
	Pulmonary Stenosis S1 S2 88 BPM
	Restrictive Ventricular Septal Defect UM 72 BPM
	Tetralogy of Fallot S1 S2 120 BPM
	Ventricular Septal Defect S1 S2 76 BPM
Ventricular Septal Defect UM 130 BPM	

Category	Description
<b>Real Vesicular Breath Sounds</b>	Bronchial Breath 13 BPM
	BronchoVesicular 26 BPM
	Vesicular Normal 16 BPM
<b>Real Adventitious Breath Sounds</b>	Fine Crackles 10 BPM
	Late Inspiratory Crackles 14 BPM
	Low Pitched Crackles 24 BPM
	Pleural Friction Rub 28 BPM
	Velcro Crackles 10 BPM
	Wheeze High Pitched 16 BPM
Wheeze Low Pitched 34 BPM	

MORE INFORMATION AVAILABLE ONLINE AT [FISHERSCI.COM](http://FISHERSCI.COM)