Auscultation Simulator with SmartScope™



The auscultation simulator with SmartScope™is a medical training tool designed to teach cardiac and pulmonary auscultation. manikin has no visible auscultation sites; therefore, the learner must use **palpable landmarks** to identify the listening areas, just as in an examination of a real patient.

The instructor selects cardiac or pulmonary conditions using a **wireless remote control with an LCD screen**. The sounds heard then vary depending on the position of **the SmartScope™** on the manikin, allowing learners to compare sounds across different sites and develop clinical reasoning skills.

The system is completely wireless and has no internal speakers. Sounds can be listened to through headphones connected to the SmartScope™ or via an external amplifier/speaker (not included). A single remote control can operate multiple compatible SmartScopes™ within a maximum range of **30 m**, facilitating group instruction.

Benefits for Training

- **Invisible auscultation sites**, to prevent learning by direct visual cues.
- **Palpable anatomical landmarks** to reinforce the clinical examination method.
- **Variable cardiac and pulmonary sounds** depending on the areas being auscultated.
- **Remote control**, allowing the instructor to modify conditions during the exercise.
- **Wireless operation**, convenient for individual or group training sessions.
- **Hard case included** for storing and transporting the equipment.

Technical Specifications

	Auscultation Simulator with SmartScope™
	Cardiac and pulmonary auscultation

Auscultation Sites	Invisible, with palpable markers
Pulmonary sites	5 anterior sites, 10 posterior sites, and 2 mid-axillary sites
Cardiac sites	6 anterior sites
Pulmonary conditions	16 selectable conditions
Cardiac conditions	13 selectable conditions
Control	Wireless remote control with LCD screen
Remote control range	Up to 30 m
Audio operation	No internal speakers; listen via SmartScope™
Sound Playback	Listening via SmartScope™ with headphones; shipped without a speaker
Power	2 AA batteries and 2 AAA batteries included
Included items	Manikin, LCD remote control, SmartScope™ with one or two headphones, hard carrying case
Shipping dimensions	27 x 18 x 11 in, or approximately 68.6 x 45.7 x 27.9 cm
Shipping weight	Approximately 10.9 kg

Selectable lung conditions

- bronchovesicular sounds;
- bronchial sounds;
- cavernous sounds;
- rales;
- hoarseness;
- crepitations;
- friction;
- infant-like sounds;
- monotonous wheezing;
- normal lung sounds;
- pectoriloquy;
- pulmonary edema;
- rales;
- stridor;
- vesicular murmurs;
- wheezing.

Selectable cardiac conditions

- aortic insufficiency;
- ventricular septal defect;
- holosystolic murmur;
- midsystolic murmurs;
- mitral stenosis;

- normal condition;
- PDA, patent ductus arteriosus;
- normal pulmonary sounds;
- stenosis;
- third heart sound, B3;
- fourth heart sound, B4;
- systolic click;
- VSD, ventricular septal defect.

Uses

- training in cardiac auscultation;
- training in pulmonary auscultation;
- learning anatomical landmarks through palpation;
- simulation of clinical cases in medicine, nursing, or emergency care;
- training at simulation centers, health schools, or medical training organizations;
- group instruction using multiple compatible SmartScopes™.

FAQ – Auscultation Simulator with SmartScope™

Why are the auscultation sites hidden?

The invisible auscultation sites require the learner to locate the correct auscultation points by palpation, just as in a real clinical examination. This prevents learning that relies solely on visual cues.

Is the simulator suitable for group instruction?

Yes. A single remote control can operate multiple compatible SmartScopes™ within a maximum range of **30 m**, allowing for group exercises.

Does sound come directly from the manikin?

No. The manikin does not have built-in speakers. Sounds are transmitted through the **SmartScope™** and can be heard through headphones connected to the device. The simulator does **not come with speakers**.