Eye Examination Simulator

Part No: KKM82

A sophisticated trainer for teaching and practicing the use of an ophthalmoscope, examining the ocular fundus, and identifying diseases and conditions within the eye.

Skills
• Use of an ophthalmoscope *not supplied*
• Examination technique
• Identification of up to 90 cases
• Communication skills

Features
• Unique set of image processed slides taken from real cases to provide a highly realistic 3D perspective
• 2 step pupil diameter variations (3.5mm, 8.0mm)
• 3 step slide locator to simulate hyperopic, normal and myopic views
• Red reflex
• Eyeballs with lenses that reproduce a realistic visual axis and view of eyegrounds
• Soft and supple material to allow the eyelids to be raised
• 10 common diseases/conditions:
  - normal eyeground
  - hypertensive retinopathy: arteriolar vasoconstriction grade 3, arteriolar sclerosis grade 1, hemorrhages and cotton wool spots, simple vein concealment
  - simple/background diabetic retinopathy: microaneurysm, hemorrhages & hard exudates
  - papilloedema (chronic phase)
  - papilloedema (acute phase)
  - glaucomatous optic atrophy: glaucomatous optic disc cupping & nerve fibre defect
  - retinal vein occlusion (acute phase): flame-shaped hemorrhage & cotton wool spots
  - retinal vein occlusion (after retinal laser photocoagulation)
  - toxoplasmosis: retinochoroiditis
  - age-related macular degeneration: macular exudates & subretinal hemorrhage

Package supplied
• 1 Ocular Fundus Slides (Set of 10)
  Part No: KK11220-010
• 1 Eye examination simulator base
• 1 Slide holder
• 1 Carry case

Product details correct at time of going to press. Subject to change.
Ear Examination Simulator

Part No: KKM88

A life-size model for training examination of the external acoustic meatus and tympanic membrane directly with an otoscope, and for foreign body removal.

Skills
• Use and handling of an otoscope (not supplied)
• Examination of the acoustic meatus and tympanic membrane
• Communications skills and examination protocol
• Recognition of 11 cases
• Earwax and foreign body removal

Features
• 11 matching sets of right and left ears
• Flexible neck allows proper head positioning
• Examination possible on both sides
• Accurately reproduced and flexible auricle
• Includes a normal case for basic training
• Realistic soft material
• Foreign body removal set supplied. Includes simulated earwax, small toys and small sponges. (A pair of ears without eardrums are included when performing these procedures)
• Suitable for use with all otoscopes
• 10 clinical cases included
  - normal
  - normal (with wider auditory canal)
  - serous otitis media (SOM)
  - mucoid otitis media (MOM)
  - chronic suppurative otitis media (CSOM)
  - acute suppurative otitis media (AOM)
  - cholesteatoma
  - tympanosclerosis
  - traumatic perforations
  - cerumen block
  - practice of foreign substance removal

Package supplied
• 1 Ear Set Part No: KK11222-010
  Contains:
  - 22 ears (11 matching sets of right & left)
  - foreign body removal set
  - talcum powder compact
• 1 Ear examination simulator base
• 1 Carry case

Product details correct at time of going to press. Subject to change.
Lecat’s Ventriloscope

**Standard Package** Part No: LV001
**Educator’s Package** Part No: LV010

The Ventriloscope has been developed by Dr. Paul Lecat to transmit normal or abnormal sounds from lung, heart, bowel, BP, Doppler, etc. to a realistic stethoscope receiver. It can be used with Standardized Patients or mannequins.

**Skills**
- Distinguish normal and abnormal sounds
- Placement and use of the stethoscope
- Assess proper use of diaphragm and bell of stethoscope for appropriate sounds
- Integrate findings with history gathered from a live patient
- Learn to document auscultatory findings accurately
- Can be used to teach Blood Pressure to large or small groups
- Can be used to teach Doppler and Percussion sounds

**Features**
- Simple to operate
- Completely integrates history taking with physical exam, including abnormals
- Place any sound, anywhere on a live patient or mannequin
- Use any MP3 recording (create your own and load it onto an SD memory card)
- Can be used on any mannequin
- Allows for changes in murmurs with maneuvers
- Students can teach each other
- Allows precision timing of sounds
- Transmitter is easily concealed in the hand or pocket and receiver is incorporated into cardiology style stethoscope
- Uses wireless transmission with cutting edge chip technology. Operates on a reserved frequency band and cycles frequencies for absolute test security
- Can be used with auditorium sound systems or speakers for group teaching
- Battery lasts for up to 8 hours of continuous use per charge. Charging is complete in less than an hour
- Volume control allows trainee to detect even faint sounds

**Standard Package supplied**
- Ventriloscope transmitter
- Cardiology style Stethoscope receiver & accessory kit
- SD memory card with 12 sounds:
  - Normal heart, S4 gallop, Tachycardia, Bowel sounds,
  - S3 gallop, Normal inspiration, Bruit, Normal expiration,
  - Korotkoff, Expiratory wheezes, Korotkoff (tachycardia), Inspiratory crackles
- USB cables for charging & instruction manual
- Locking aluminum carrying case
- 1 year warranty (extended warranty may also be purchased)

**Standard Package supplied**
- Set of Bose multimedia loudspeakers
- Extended 2 year warranty (invalid if product is misused or neglected)
Lung Sound Auscultation Trainer

Part No: KKM81-S

A dedicated lung sound auscultation trainer allowing the trainee to learn to distinguish and identify different lung sounds, and to diagnose their associated conditions.

Skills
- Use and placement of a stethoscope
- Identification of sounds and their variations
- Relationship between sounds and auscultation sites
- Ability to describe sounds clearly to others

Features
- Cases are recorded from real patients
- 15 lung auscultation sites (7 anterior and 8 posterior) are used
- Sites are fully synchronized for all cases
- 35 programmed cases (33 of which can be heard with or without heart sounds)
- Torso rotates on the base to allow auscultation of the anterior (front) and posterior (back) lung fields
- Lung sounds structure follows American Thoracic Society classification
- Detailed explanation of lung sounds provided and synchronizes with the case being listened to. These include a description of the sound to aid identification, an explanation of how and why the sound is generated, and a listing of possible conditions. These are enhanced with illustrations, chest radiographs and CT images
- External speakers can be used for group study, problem based learning and discussions
- Sound waves can be displayed graphically to aid understanding and improve retention
- Respiration rate can be varied
- Each of the 15 speakers, which are built into the chest wall, has a separate computer based volume control
- Suitable for assessing trainees’ skills

Package supplied
- 1 LSAT Trainer
- 1 PC
- 1 Amplifier
- 2 Speakers

Due to a policy of continuing product development and software upgrade, the specifications and features of the current model may vary from those shown in this catalog. Stethoscope is not supplied.

Visit our website for more information
Find the product by typing the Part No into the search box

Packed weight (lbs) & dimensions (in) | Multiple boxes & weights
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Middle left lung field
Cardiology Patient Simulator ‘K’

Part No: KKM84-S

This model is a simulated cardiology patient on which a comprehensive clinical examination can be performed (auscultation, abdominal, cardiac and vascular observation, and electro cardiographs).

Skills
- Detailed cardiology clinical examination
- Auscultation:
  - heart sounds at 5 sites
  - appropriate breath sounds
- Inspection:
  - jugular venous waves on both sides of the neck
  - abdominal respiratory movement
- Palpation:
  - cardiac impulses: right ventricle, left ventricle, and dilated left ventricle
  - arteries at 8 sites
  - abdominal respiratory movement
- Electrocardiograph (EKG) monitoring

Features
- Auscultation:
  - heart sounds can be heard at the four primary auscultation sites: aortic, pulmonic, tricuspid and mitral
  - auscultation of the 1st sound (S1) and the 2nd sound (S2) can both be done with electrocardiogram monitoring
  - relevant tracheal and bronchial breath sounds are simulated
- Jugular veins:
  - pulsation of jugular venous waves can be observed on both sides of the neck
  - timing and strength of ‘a’ waves and ‘v’ waves can be differentiated
- Palpation:
  - carotid, medial, radial and femoral arteries can be palpated at eight sites on both sides
  - variations of arterial pulse waves in different cardiac conditions or arrhythmias can be detected
  - cardiac impulses can be identified at the right ventricle, left ventricle, and dilated left ventricle
- Monitoring:
  - electrocardiogram (EKG), Jugular Venous Pulse (JVP), Carotid Arterial Pulse (CAP) and Apexcardiogram (ACG) can all be monitored
  - full explanations for self-directed learning are available
  - phonocardiograms are available to assist in learning heart sounds and murmurs
- Total integration:
  - all vital signs are fully synchronized
  - explanations on the display show the characteristics and features pertinent to the case selected
  - the images of the words for the EKG, CAP, JVP and ACG can be freeze-framed for detailed study to aid understanding
• External speaker system provided for demonstrations, discussions and problem-based learning exercises
• History and explanatory material included for self-directed learning
• Assessment modules incorporated
• All sounds recorded from real patients
• 88 cases: 12 normal heart sounds, 14 diseased heart cases, 10 arrhythmias and 52 EKG arrhythmia cases

Package supplied
• 1 Cardiology Patient Simulator K
• 1 controller/PC table
• 1 PC
• 1 Rib sheet
• 5 Replacement pulse tubes
• 1 Text book
• 1 Amplifier
• 2 Speakers

Phonocardiogram

Sphygmogram

EKG

‘K’ Plus Training System
Part No: KKM8481-S

Auscultation is one of the most important skills in physical examination. The ‘K’ Plus Training System is a combination of the Mr ‘K’ and Mr Lung auscultation trainers. This gives the full functionality of the independent systems whilst sharing core components to reduce the cost for the skills center.

Skills and Features
• Cardiology Patient Simulator ‘K’ (Pages 8 & 9)
• Lung Sound Auscultation Trainer (Page 7)

Package supplied
• 1 Cardiology Patient Simulator K
• 1 controller/PC table
• 1 PC
• 1 Rib sheet
• 5 Replacement pulse tubes
• 1 LSAT Trainer
• 1 Text book
• 1 Amplifier
• 2 Speakers

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