

Set includes

A



I



Components

- A : 1 torso manikin
 - B : 1 control PC
 - C : 1 PC (built-in the unit)
 - D : 1 AC adapter
 - E : 1 power strip
 - F : 1 LAN cable
 - G : 1 LAN adapter
 - H : 1 external speaker (built-in the unit)
 - I : 1 lung T-shirt
- 2 instruction manual
-built-in help file of software operation
-instruction manual

B



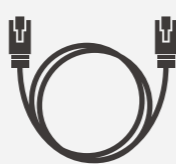
D



E



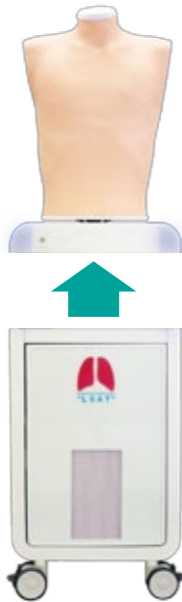
F



G



Torso manikin is possible to be used separately



Easy to move around



Lung Sound Auscultation Trainer "LSAT" ver.2

MW28 11407-000

Product Supervision

Chiharu Yoshii, MD., Ph.D., Professor,
Department of Respiratory Medicine,
Wakamatsu Hospital of the University of
Occupational and Environmental Health, Japan



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 **KYOTO KAGAKU co.,LTD**

Worldwide Inquiries & Ordering
<http://www.kyotokagaku.com>
E-mail: rw-kyoto@kyotokagaku.co.jp

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Kyotokagaku Head Office and Factories
15 Kitanechoya-cho, Fushimi-ku, Kyoto, 612-8388, JAPAN
Tel: +81-75-605-2510 Fax: +81-75-605-2519

 Find the product videos on Youtube
www.youtube.com/user/Kyotokagaku

Used by 96% of medical faculties in Japan
and OSCE in South Korea,
the "LSAT" is now new and improved!

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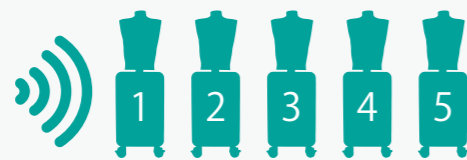
New Features

- Remote & Wireless Control
- Breathing Indicator LED
- Playlist Maker
- Multiple Operation
- Error Indication System
- Only one connection

Wireless multi-unit operation

OSCE, group session and scenario based simulation

Up to five Simulator "LSAT" can be controlled by one wireless control PC



- each simulator can be individually set with a different case
- cases can be switched promptly by clicking at anytime during session

Anterior and posterior auscultation at the same time

Examination could be done by two or more people simultaneously.



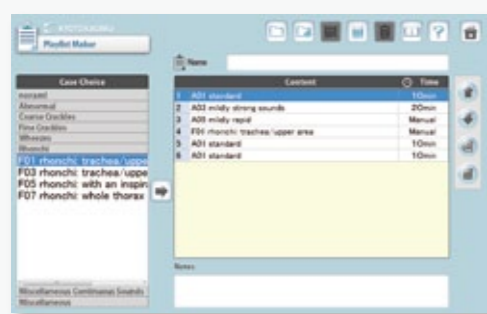
Indication of inspiration and expiration with the LED light panel

Confirm the rhythm of breathing while listening to the sound during examination.



Create a custom playlist

Choose from 36 sound cases available. Create a custom playlist to suite your learning program.



Error Indication System

Machine will automatically check for error during start-up.

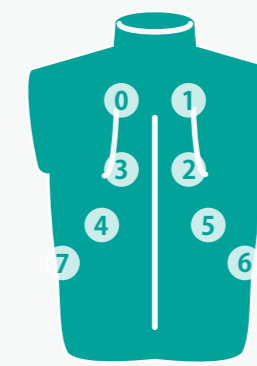
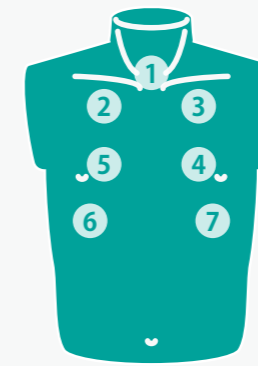


Basic Features

Auscultation sites

Anterior

1. trachea
2. upper right lung field
3. upper left lung field
4. middle left lung field
5. middle right lung field
6. lower right lung field
7. lower left lung field



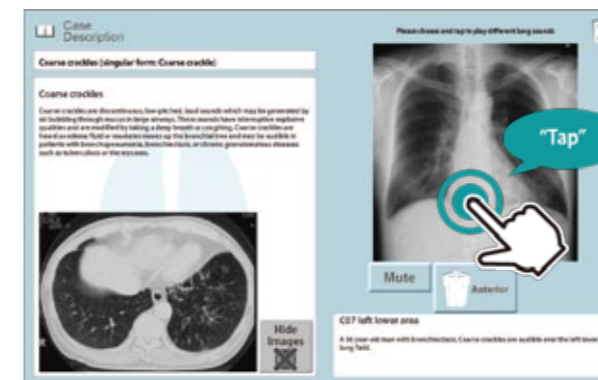
Posterior

0. upper left lung field
1. upper right lung field
2. middle right lung field
3. middle left lung field
4. lower left lung field
5. lower right lung field
6. right costphrenic angle
7. left costphrenic angle

Case information

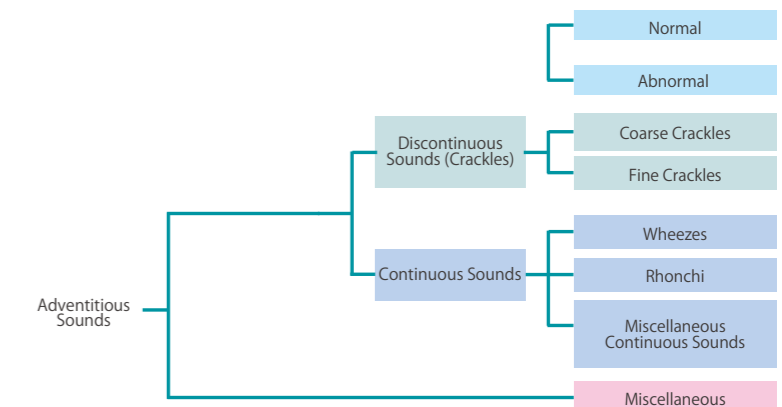
Images of plain X-ray, CT and bronchoscopy may be available in each case.

POINT Lung sound of each area can be played by tapping the plain X-ray image



Classification of Lung sounds

The American Thoracic Society developed a rational and clinically useful classification based on acoustic analysis of tape recordings and introduced the nomenclature. With this approach, lung sounds are categorized as continuous (wheezes, rhonchi, or stridor) or discontinuous (crackles). Crackles are further identified as fine or coarse. The terms "lung sounds" and "breath sounds" are usually used synonymously.



Cases **POINT** Sound volume is now available in 5 levels

Normal	Abnormal
A01 standard A03 mildly strong sounds A05 mildly rapid A07 loud heart sounds	B01 weak: left lower area B03 weak: left whole area(adhesion) B05 weak: left whole area(pneumothorax) B07 absent:right middle and lower areas B09 weak: right whole area B11 absent: right whole area B13 weak: whole area B15 bronchial breathing
Coarse Crackles	Fine Crackles
C01 right lower area C03 both lower area C05 right middle area C07 left lower area C09 both upper area C11 whole area	D01 both lower area D03 both middle lower area D05 whole area(IPF) D07 whole area(NSIP)
Wheezes	Rhonchi
E01 upper area 600-700Hz E03 upper area 350-450Hz E05 upper area 200-1000Hz	F01 trachea and upper area 150-250Hz F03 trachea and upper area 150-450Hz (polyphonic) F05 trachea and upper area 80-120Hz F07 whole area 80-200Hz
Miscellaneous continuous sounds	Miscellaneous
G01 stridors G03 squawks	H01 pleural friction rubs: right lower area H03 pleural friction rubs: left lower area H07 Hamman's sign H09 Vocal fremitus