HEINEN + LÖWENSTEIN
Lebenserhaltende Medizintechnik

THE NEW INNOVATIVE RESPIRATORY DIAGNOSTIC SYSTEM

LEOSound

Homecare
PNEUMOLOGY
Neonatology
Anaesthesia
Intensive Care Ventilation
Sleep Diagnostics
Service
Patient Support

Small, compact, easy handling

LEOSound is a special developed new respiratory diagnostic system. The system is able to record and analyze cough, breath- and lung sounds over a long period.

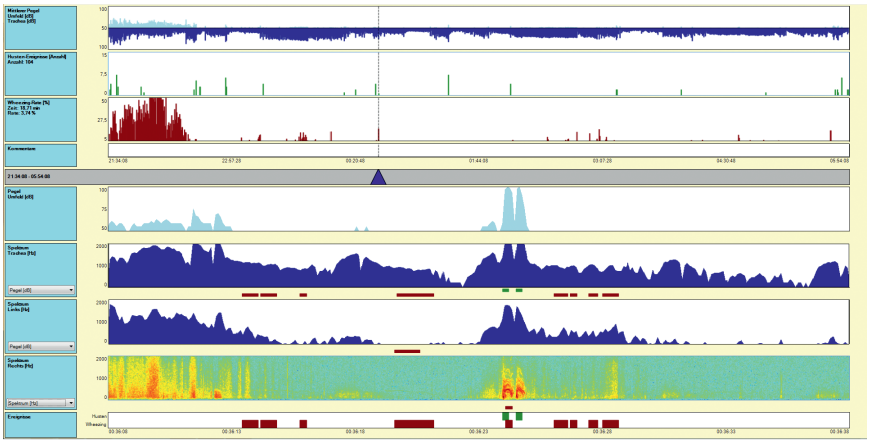
The device is battery-operated, small and compact and allows a smooth ambulatory or stationary recording for children and adults.

Three highly sensitive Surface Microphones are available for recording, which respond to structure-borne sound. The microphones will be stuck on the thorax and the trachea.

The registered signals will be electronically recorded and stored. A corresponding recording can be done continuously for many hours. A fully automatic analysis evaluates the recording and provides different display options and a report.

LEOSound is optimized for nightly detection of wheezing and cough. Thereby incidents will be automatically detected and clearly represented in the long term. The original sound can be wiretapped for validation at any time.

The system is an excellent addition compared to the classic auscultation with the stethoscope.
Due to the possibility of nightly long term recording abnormal conditions of the lung can be identified, which might remain hidden in the moment using classic auscultation. LEOSound is a quick and cost-effective measurement method in the night for the clinical routine. So LEOSound is the first long-term stethoscope which will open up entirely new diagnoses and therapies all around the respiration field.



Detected wheezing incidents
in chronological sequence

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The most important features are:

- Long-term recording of cough, breath- and lung sounds
- Possible application areas: bronchial asthma, COPD, restrictive lung diseases, unclear insomnia, chronic cough and nightly reflux
- Useable for diagnose and therapy control
- Automatic detection of wheezing and cough
- 4-channel-recording up to 10 hours
- Optimized display of acoustic signals (split-screen-procedure)
- Additional IF spectrum of the acoustic signals
- Acoustic reproduction in conspicuous periods
- EDP-compatibility for data integration also in polysomnographical recordings
- GDT-interface

The following articles will be delivered as a standard:

- LEOSound monitor
- Recharge electronics with connection cable
- Transport case
- Shoulder bag
- Chest strap
- Software licence on CD
- 1set of microphones
- 100 adhesive rings for microphones
- User manual
- Short user manual

Stand: 02/2014
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Heinen + Löwenstein Medizin-Elektronik GmbH
Arzbacher Straße 80, D-56130 Bad Ems
Phone: +49 2603/9600-0, Fax: +49 2603/9600-40, Internet: hul.de