

# AUDIOLAB

■ Two-channel clinical audiometer



*Tone audiometry  
Speech audiometry  
Masking  
SISI  
ABLB  
Decay Test  
BEKESY*

# AUDIOLAB

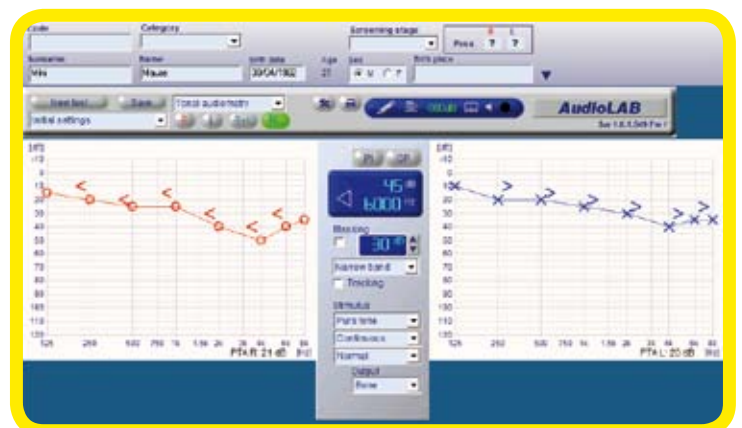
■ Two-channel clinical audiometer



## AudioLab, advanced technology in a small space.

With a weight of only 250 grams, AudioLab is so small it can be conveniently carried in your bag together with your laptop. However, when you turn it on, it becomes great, and rivals any 2-channel audiometer.

A click on your mouse or on the keyboard, and AudioLab displays audiograms during tests and stores them in your database until you need to print them.





## **LAP, the statistically most advanced audiological software.**

AudioLab now features a complete, innovative database that provides test previews to check the patients' audiological record.

Labat has developed an exclusive software that meets the requirements of modern audiology.

The LAP software retrieves data directly from the hardware database to elaborate statistics more efficiently, thus satisfying the guidelines of modern hospital information technology.

LAP enables audiologists to retrieve the tests of patients, and provides statistical data arranged by age, type of problem, test date, etc.

LAP is fitted in all Labat audiological instruments, with programmes suited to the parameters required by each test.



### **High power**

*Two active, high-powered speakers are available for free-field testing.*



### **High frequency**

*The optional high frequency version includes high-frequency headphones and uses pure tones up to 20,000 Hz. The optional ER-5A insert phones are also available.*

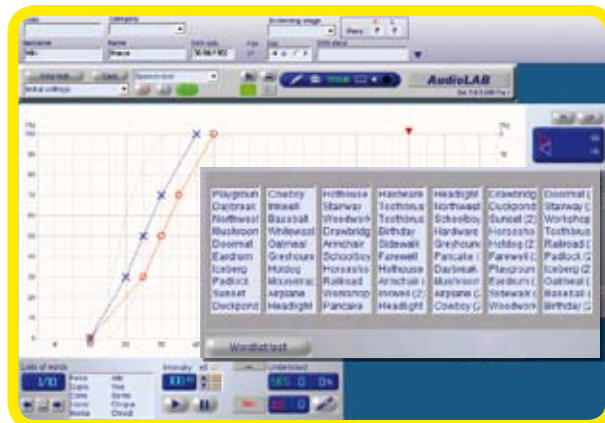


# AudioLab is certainly not at a loss for words.

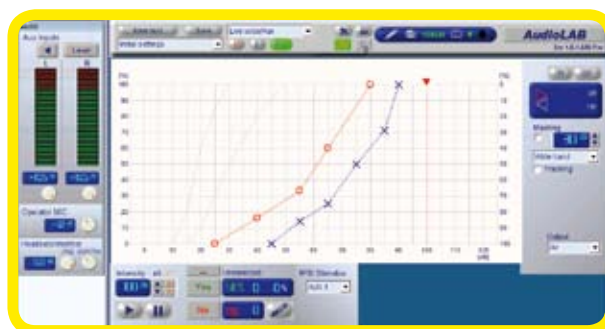
AudioLab does not require an external CD player, as its built-in Flash Memory contains lists of words to be presented to the patient at selected intensities.

AudioLab has 2 built-in inputs for external CD connection, so that you are free to use any equipment you like.

## Internal Speech



## External Speech



# Masking and superimposing are now easier.

The AudioLab Tracking function enables examiners to send a selected frequency for contralateral reflex testing. The difference between tone and masking noise is pre-programmed in a chart that the examiner may modify at will.

Previous audiograms may be retrieved during testing in order to monitor the patients' medical history.

## Main supraliminal audiological tests available.



SISI TEST



ABLB



DECAY TEST



BEKESY

## Our big ears are all the better for them to hear with.

Labat has designed and produced an amusing peep-show to put young children at ease, thus creating a cosy environment that minimises their worries about the visit.

The peep-show apparatus has a control panel to check visual stimuli, an LCD monitor and DVD player, toys, light effects and a powerful free-field system.



# Technical characteristics

## AUDIOLAB

Two-channel clinical audiometer (EN 60645-1)  
Type 1 A-E (EN 60645-1 - EN 60645-2) - Type 2 A-E (ANSI S36)  
Number of channels: 2, identical and independent

## OUTPUT

AC R - AC L - AC R+L - BC R-L - FF R - FF L - FF R+L  
Contralateral masking with AC, BC, FF

## PURE TONE FREQUENCIES

AC: 125 - 8.000 Hz  
AC: (HF version): 8.000 - 20.000 Hz  
BC: 250 - 8.000 Hz  
FF: 125 - 8.000 Hz

Intensity range (1.000 Hz) - 10 + 120 dB HI

## MAXIMUM OUTPUT LEVEL

PURE TONE 1.000 Hz				
TRANSDUCER	TDH 49	ER-3A	B 71	FF
dB HL	120	115	75	100
NBM	95	95	-	95

## SPEECH AUDIOMETRY

TRANSDUCER	TDH 49	ER-3A	B 71	FF
dB HL	100	100	-	100
SN - WN	95	95	-	95

## VOICE EQUIPMENT

- List of words installed in flash memory
- CH1 - CH2 independent inputs, CD1, CD2 two separate VU-Meters, masking noise SM and WM.

## SIGNAL MODE

- Normal ON - Normal OFF
- Continuous - pulsed
- Warble - frequency modulated  $\pm$  5% rate 5 Hz
- ABLB\*
- SISI with increment 1-2-3-4-5 dB.\*
- DECAY TEST\*
- BEKESY\*
- PAT RESPONSE
- TALK - BACK
- TALK - FORWARD
- Digital output for control Peep-Show

\*Only clinical version

## ACCURACY

- Resolution 16 Bit
- Precision  $\pm$  50 ppm
- Stability  $\pm$  100 ppm
- Distorsion < 1%
- Ratio signal/noise > 100dB
- Power supply: USB port

## STANDARD ACCESSORIES

- Headphone TDH 49
- Headphone HDA 200 (only HF version)
- Radio EAR B.71 bone vibrator
- Pat response
- USB cable
- CD with software
- Operating manual

## OPTIONAL ACCESSORIES

- Headphone ER-5A or ER-3A
- Operator microphone
- Patient microphone
- Cables for silent room

## ENVIRONMENTAL STORAGE TEMPERATURE

- 20 °C +50 °C

## OPERATING TEMPERATURE

- 5 °C +40 °C

## OPERATING RELATIVE HUMIDITY

- 10 - 90%

## MECHANICAL

Dimensions: cm 9,5 (w) x 15,7 (d) x 3 (h)  
Weight: 260 g

## STANDARDS

AUDIOMETRICS EQUIPEMENTS  
EN 60645-1 (1994) EN 60645-2 (1997)  
EN 60645-4 (1995) - ANSI S3.6 (1996)  
EN ISO 389 (1995) - ISO 389-2 (1994)  
ISO 389-3 (1994) - ISO 389-4 (1998)  
ISO 389-7 (1996)

## SECURITY

EN 60601-1 (1990) class II - type B  
EMC - EN 60601-1-2 (2001)