

## *Pediatric Audiometer PA5*

- Efficient Hearing Examinations



# Audiometry. *precision*

### Features

- Warble Tones
- Narrow Band Noise
- White Noise for Easy Detection
- Triangle Light Stimulation
- COR, APR and VRA
- One-Hand Operation
- Silent Presentation Buttons
- TDH39 Headphone (Optional)
- Robust, Lightweight
- Standard AA Batteries
- Automatic Battery Switch

The Pediatric Audiometer PA5 is a free field audiometer for testing children's hearing.

The PA5 is intended to be used in institutions and private homes by all groups of health care workers involved in hearing tests for small children.

### One Hand Operation

When the COR test is performed the operator uses two PA5s, one in each hand. Each unit can be controlled with one hand so the operator can change intensities, stimuli and frequencies while stimulating arbitrarily with tone and light.

### Automatic Battery Switch

The Pediatric Audiometer PA5 is powered by three standard AA batteries. Included is a power saving feature that will switch off the PA5 after a period of inactivity. The unit automatically turns on again once the stimulation switches are touched.

### Silent Presentation Switches

The two stimuli, light and sound, are elicited by means of two silent switches. The stimuli may be given simultaneously by letting one finger touch both switches. This gives full freedom operating COR, VRA and APR tests.

### White Noise Stimulus for Improved Sensitivity

Studies have shown that the White Noise function of the PA5 produces better responsiveness than simple stimuli, which is particularly observable in the first few months of life.

### Threshold Testing Using Audiometric Headphone

With a PA5 it is also possible to obtain traditional audiometric pure tone thresholds from patients old enough to cooperate in a normal audiometric test situation. For this application a single standard TDH39 audiometric headphone (optional) is connected to the PA5. The PA5 will automatically change to the calibration as required by the TDH39.

leading diagnostic solutions



# General Technical Specifications

## Standards:

Audiometer: EN 60645-1, Type 5.

Sound Pressure Level of the loudspeaker:  
ISO 389-7.

Sound Pressure Level of the headphone:  
ISO 389-1.

## Medical CE-Mark:

The CE-mark indicates that Interacoustics A/S meets the requirements of Annex II of the Medical Device Directive 93/42/EEC. Approval of the quality system is made by TÜV – identification no. 0123.

## Power:

Batteries: 3 x AA, LR6 or Mignon.  
Alkaline or rechargeable (NiMH or NiCa).

## Frequencies:

500, 1000, 2000, 3000, 4000 Hz.

## Stimuli:

Warble Tone, NB, and WN.

## Intensities:

Distance 50 cm:  
30 – 80 dB HL in 10 dB steps for Warble Tone and WN.  
20 – 70 dB for NB

Distance 16 cm:

Increases the indicated intensity by 10 dB.

## Warble Frequency:

5 Hz,  $\pm$  5%.

## Stimulation using TDH39:

Pure Tone: 500, 1000, 2000, 3000 and 4000 Hz.

Intensities of 30 – 80 dB (independent calibration applied when TDH39 is connected).

## Sound Source:

Built in loudspeaker or audiometric headphone TDH39 (independent calibration registers).

## Light Stimulation:

3 LED's arranged in a triangle, flash speed 5 Hz (5 pulses per sec).

## Tone and Light Presentation:

Silent presentation switch.

## Approximate Battery Lifetime

The battery lifetime using alkaline battery type:

With the instrument switched off: 12 months.  
With 80 dB tone switched on: 10 hours.  
With 80 dB tone and light switched on: 4 hours.

## Dimensions:

L x W x H: 9.8x2.7 x 2 inches.  
Weight: 0.8 lbs. incl. batteries.

## Air Freight Packing:

L x W x H: 14 x 10 x 5 inches.  
Gross Weight: 2.9 lbs.



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## Included Parts:

3 AA Batteries  
PA5 Handbag  
Operation Manual  
Multilingual Instruction for Use

## Optional Parts:

TDH39S Single Earphone with cord and cup

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