



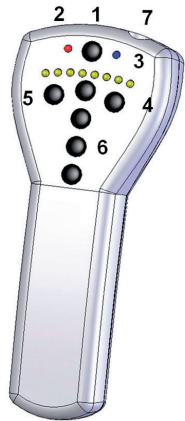
Hearing screener device

Features

- Four test frequencies : 500, 1000, 2000, 4000 Hz
- Intensity range: 15-50 dB in 5 dB steps
- Left/right switch
- Led indicators
- Headset
- Powered by two AA batteries
- Dimensions: LxWxH: 192x32x75 mm



Instructions for hearing screener device



Product description:

The <device> is a handheld hearing screener intended to indicate the hearing level of individuals.

Precautions:

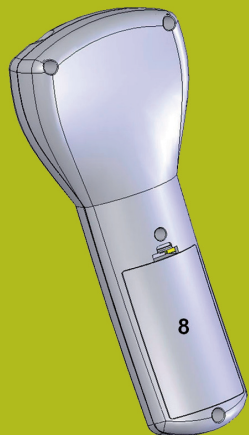
Notice – The test results provide a hearing indication only. No diagnose should be based on measurements with this device alone.

Notice - Do not site the <device> next to a radiator or any other heat source.

Notice - In operation the <device> should not be subject to temperatures below 15C°/59F or above 35C°/95F.

Notice - Precautions should be taken to avoid unnecessary exposure to electromagnetic fields, e.g. from mobile phones, pagers, etc. If the <device> is used adjacent to other equipment it must be observed that no mutual disturbance appears.

Illustration 1: The <device> front and back.



Position	Symbol	Function
1	Centre button	Power on. Selection of ear (Left/Right).
2	Red diode	Indication of signal being presented in the right ear.
3	Blue diode	Indication of signal being presented in the left ear.
4	Arrow up	Intensity rise in intervals of 5 dB.
5	Arrow down	Intensity fall in intervals of 5 dB.
6	Intensity scale	Four distinct buttons – 500 Hz, 1000 Hz, 2000 Hz and 4000 Hz – for presentation of signals.
7	n/a	Connector for stereo headset.
8	n/a	Battery compartment.



Notice - Within the European Union it is illegal to dispose electric and electronic waste as unsorted municipal waste. Electric and electronic waste may contain hazardous substances and therefore has to be collected separately. Such products will be marked with the crossed-out wheeled bin shown below. The cooperation of the user is important in order to ensure a high level of reuse and recycling of electric and electronic waste. Failing to recycle such waste products in an appropriate way may endanger the environment and consequently the health of human beings. Disposal of batteries must be made according to national regulations.

Getting started

Before using the <device>:

1. Open the battery compartment and insert two AA size batteries. Observe the orientation of the poles. Place the lid to close the compartment again.
2. Turn on the <device> by pressing the top centre button once to check power on.

Technical description:

The <device> is capable of delivering a sinusoidal signal to one ear at the time through a stereo headset. The stimulus range is 15 to 50 dB in steps of 5 dB. The accuracy is ± 4 dB and the distortion is less than 3%. The frequency range is 500 to 4000 Hz in four steps: 500 Hz, 1000 Hz, 2000 Hz and 4000 Hz.

Included parts:

<device>
WHP-50SD Headset
Cradle
2 AA size batteries
Operation manual

Batteries:

2 AA size. Automatic battery on/off switching.

Battery life:

Standby: ~ 6 months, main determined by battery self-discharge. Standby current $< 1 \mu A$

Tone presentations: 30.000 of 2 second duration and a 1:3 on/off ratio.

When using the <device> to test hearing level:

1. Turn on the <device> by pushing the top centre button once to check power on. Default start-up setting is either left or right ear – depending on last selection and an intensity of 50 dB.
2. Place the headset on the head of the patient. Observe the placement of left and right speaker to secure correct testing.
3. Select the appropriate intensity level by using the up/down arrow keys and subsequently push one of the four frequency buttons to present a signal. The signal is presented by pressing the according frequency button for 500Hz, 1000Hz, 2000Hz or 4000Hz. A signal is presented as long as the button is pushed down.
4. To change ear push the top centre button. Observe that the intensity level defaults to 50 dB.

Standards:

Safety Standard: EN 60601-1. EMC: EN 60601-1-2. This device is not classified according to and does not comply with the IEC60645-1 standard.

Stimulus type: Pure tone.

Outputs: Left and Right.

Frequencies and Intensities:

Freq. Hz.	AC, dB HL	Accuracy	Distortion
500	15-50	± 4 dB	$< 3 \%$
1000	15-50	± 4 dB	$< 3 \%$
2000	15-50	± 4 dB	$< 3 \%$
4000	15-50	± 4 dB	$< 3 \%$

