

### PURE TONE AUDIOMETER FOR OCCUPATIONAL HEALTH

hearTest Occ Health is a certified tablet-based audiometry solution with cloud data management for seamless occupational hearing care.

This portable and robust solution provides the same attenuation as a single-wall sound booth.



# **COMPLIES TO INTERNATIONAL STANDARDS**





## HARDWARE



### --- INSERT HARDWARE

Samsung Tab A, IP30 insert earphones, ear defenders, 500 disposable foam tips in various sizes, v3 DAC & carry case

#### OVER EAR HARDWARE - - -

Samsung Tab A, RadioEar DD450 headphones, v3 DAC & carry case



Frequency range	<ul> <li>Insert: 125 - 8,000 Hz</li> <li>Over ear: 125 - 16,000 Hz</li> </ul>			
Testing protocol	Shortened Threshold Ascending method			
Pre-tone waiting period	Randomised between 1,500 - 4,000 ms			
Person response window after tone	Adjustable between 1,500 - 4,000 ms			
Optionals	Self-test / test operator mode			
Additional features	<ul><li>On-screen patient signature</li><li>Add otoscopy images to test</li></ul>			

### OCCUPATIONAL HEALTH PROTOCOLS PRE-PROGRAMMED AND AVAILABLE FOR SELECTION

- OSHA Baseline and annual audiometric testing
- NAL 80 Baseline, periodic and exit audiometry protocols
- SANS 10083 Occupational health baseline, monitoring and exit protocol



# PROTOCOLS



## **TECHNICAL SPECIFICATIONS AND PERFORMANCE**

Carry case dimensions <ul> <li>Includes a handle</li> <li>Includes a shoulder strap</li> </ul>	<ul> <li>35 cm x 26 cm x 12 cm</li> <li>13.77 inch x 10.23 inch x 4.72 inch</li> </ul>			
Net weight (contents: tablet, headphones, and charger)	< 1 kg			
Shipping weight (quantity=1)	2 kg			
Safety and design standards	<ul> <li>IEC 60645-1</li> <li>IEC 60601-1-2</li> <li>IEC 62304</li> </ul>			
Medical device class	Class IIa			
Degree of protection (electric shock)	Type B applied part			
Warm up time	None			
Protection against ingress (IP): • Tablet • Headphones	<ul><li>IP68</li><li>Not specified</li></ul>			
Usage environment	Professional healthcare environment			
Operating temperature Humidity Ambient pressure	<ul> <li>15 to 35 °C</li> <li>30 to 90 %RH Non-Condensing</li> <li>98 to 104 kPa</li> </ul>			
Shipping and storage conditions Temperature Humidity Ambient pressure	<ul> <li>0 to 30 °C</li> <li>30 to 60% Non-Condensing</li> <li>70 to 106 kPa</li> </ul>			

# **TONE SPECIFICATIONS**

**CE R** 

Туре	Pure tone			
Frequencies "Headphone dependant	125, 250, 500, 750, 1000, 1,500, 2,000, 3,000, 4,000, 6,000, 8,000, 10,000, 12,500, 16,000			
Rise / fall time	35 ms			
Total harmonic distortion	<2%			
Intensity range 'With DAC: From -10 dB HL	Insert: 125 Hz: -10 to 80 dB HL 250 Hz: -10 to 90 dB HL 500 to 4,000 Hz: -10 to 100 dB HL 6,000 and 8.000 Hz: -10 to 80 dB HL Over ear: 125 Hz: -10 to 75 dB HL 250 Hz: -10 to 75 dB HL 750 to 4,000 Hz: -10 to 95 dB HL 6,000 and 8,000 Hz: -10 to 90 dB HL 10,000 Hz: -10 to 75 dB HL 12,500 Hz: -10 to 75 dB HL 16,000 Hz: -10 to 55 dB HL			







## **HEADPHONE SPECIFICATIONS**

		IP30 P5011 [dB] *Referenced to 0 dB HL testing from 500 Hz and up Insert Insert ar defenders		DD450 [dB] *Referenced to 0 dB HL testing from 500 Hz and up Over ear	
	Frequency [Hz]	MPANL	RETSPL	MPANL	RETSPL
RETSPL:	125	83	28	64	30.5
(determined using	250	70	17.5	50	18
an IEC 60318-1 ear simulator)	500	57	9.5	38	11
	750		6		6
	1,000	50	5.5	38	5.5
	1,500		9.5		5.5
	2,000	44	11.5	37	4.5
	3,000		13		2.5
	4,000	55	15	51	9.5
	6,000		16		17
	8,000	56	15.5	56	17.5
	10,000				22
	12,500				27.5
	16,000				56
			similar to a		

single-wall sound booth