





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



			OCC HEALTH	
 IEC 60645-1 - Equipment for pure tone audiometry (type 4 audiometer) ANSI S3.6 - Specification for audiometers (type 4 		South Africa	SANS 10083 SANS 10154-1	
audiometer) • ISO 8253-1 - Pure tone air test methods		United States of America	29 CFR PART 1910.95	
• ISO 389 series - Reference of audiometric equipment		Australia and New Zealand	AS/NZS 1269.4	
REGISTRATIONS & CER	TIFICATIONS			
UNITED STATES (FDA COMPLIANT)	EUR (CE CER		AUSTRALIA (TGA CERTIFIED)	
Registration nr: 301433759	Registration nr: 3014337591 LRQ0000		TG identifier: 321961	
FEATURES & BENEFITS	;			
	%	Ø		
OCCUPATIONAL HEALTH REPORTING	PLH CALCULATION	STANDARD PROTOCOLS SPECIFIED PER TERRITORY	BASELINE AND STS REPORTING	
Advanced occupational health reports for medical and legal requirements. Saves time and paperwork.	Percentage of hearing loss (PLH) calculated in-app and in the cloud.	Best practice audiometry protocols, with flexible customisation.	Baseline audiogram with standard threshold shift (STS) reporting.	
•	0	VV	6	
AMBIENT NOISE ATTENUATION	RELIABILITY WARNINGS	ENVIRONMENTAL NOISE WARNING	SIGNATURE	
Insert earphones with ear defenders, offer superior noise attenuation equivalent to a single-wall sound booth.	False response count and response times referenced to normative data.	Real-time monitoring of noise to alert users of noise concerns.	Persons being tested can sign for consent on the screen using the digital interface.	
MOBILE SOLUTION	INTEGRATION OF VIDEO-OTOSCOPY	Available in English , 🕠 🦲		
Tablet-based solution offers robust portability. Advanced test results viewed in-app and in the cloud.	hearScope integrates seamlessly to include eardrum images on patient records.	Spanish & Fre	ench 🕂 🔽 🔰	
			Datasheet 1	

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



hearTest

OCC HEALTH

Frequency range	 Insert: 125 - 8,000 Hz Over ear: 125 - 16,000 Hz 			
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	On-screen patient signatureAdd otoscopy images to test			

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





TECHNICAL SPECIFICATIONS AND PERFORMANCE

Carry case dimensions Includes a handle Includes a shoulder strap 	 35 cm x 26 cm x 12 cm 13.77 inch x 10.23 inch x 4.72 inch 			
Net weight (contents: tablet, headphones, and charger)	< 1 kg			
Shipping weight (quantity=1)	2 kg			
Safety and design standards	 IEC 60645-1 IEC 60601-1-2 IEC 62304 			
Medical device class	Class IIa			
Degree of protection (electric shock)	Type B applied part			
Warm up time	None			
Protection against ingress (IP): • Tablet • Headphones	IP68Not specified			
Usage environment	Professional healthcare environment			
Operating temperature Humidity Ambient pressure	 15 to 35 °C 30 to 90 %RH Non-Condensing 98 to 104 kPa 			
Shipping and storage conditions Temperature Humidity Ambient pressure	 0 to 30 oC 30 to 60% Non-Condensing 70 to 106 kPa 			

TONE SPECIFICATIONS

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 90 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		





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FDA



HEADPHONE SPECIFICATIONS

		IP30 P5011 [dB] *Referenced to o dB HL testing from 500 Hz and up Insert Insert earphones covered by 3M circumaural ear 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
		Attenuation	similar to a		

single-wall sound booth