

PURE TONE CLINICAL AUDIOMETER

hearTest is a world-first certified digital audiometry solution that uses a tablet linked to a cloud data management platform for comprehensive audiometry.





COMPLIES TO INTERNATIONAL STANDARDS

•	IEC 60645-1 -	Equipment for	r pure tone	audiometry	(type
	4 audiometer)				

- ANSI S3.6 Specification for audiometers (type 4 audiometer)
- ISO 8253-1 Pure tone air conduction audiometric test methods
- ISO 389 series Reference zero for the calibration of audiometric equipment

United States of America	29 CFR PART 1910.95	
Australia and New Zealand	AS/NZS 1269.4	
South Africa	SANS 10083 SANS 10154-1	

REGISTRATIONS AND CERTIFICATIONS



UNITED STATES (FDA REGISTERED)

Registration no: 3014337591



EUROPE (CE CERTIFIED)

Certification no: LRQ00001888/B



(TGA CERTIFIED)

ARTG identifier: 321961

BENEFITS & FEATURES



CLINICALLY VALID TESTS

Evidence-based, validated audiometer calibrated to ISO/ANSI/SANS standards.



AUDIOGRAM RESULT

Audiogram with pure tone average and degree of loss classification.



COST-EFFECTIVE

Accurate testing at a fraction of the cost.



ENVIRONMENTAL NOISE WARNING

Pre-test and real-time noise monitoring for environmental noise concerns.



TIME-EFFICIENT

Automated testing within minutes and pre-programmed test sequences for improved efficiency.



EASY-TO-USE, ADJUSTABLE PROTOCOLS

Best practice pure tone audiometry protocols for varied contexts.



EXTENDED HIGH FREQUENCY TESTING*

Determining threshold shift in the high frequency range.

'Available with RadioEar DD450 headphones and the addition of the DAC, at an additional cost.



CONDITIONING

Pre-test conditioning functionality to facilitate the testing process with talk-forward features.



NARROW BAND MASKING

Automatic masking feature across all frequencies.



QUALITY CONTROL

Smart features to ensure on-site quality control and test reliability.



DIGITAL DATA MANAGEMENT

Patient, test and facility data consolidated instantly on a secure online database.



INTEGRATION OF VIDEO-OTOSCOPY

hearScope integrates seamlessly to include eardrum images on patient test results.



PATIENT SIGNATURE

On-screen capture of patient signature which is included on hearing result report.



DOWNLOADABLE REPORTS

Hearing test results available for download from mHealth Studio Cloud.















HARDWARE





DIAGNOSTIC HARDWARE SET A

Test down to 10 dB HL

Samsung Tab A7, Sennheiser HD 280 Pro headphones & carry case

DIAGNOSTIC HARDWARE SET B

Test down to -10 dB HL

Samsung Tab A7, Sennheiser HD 280 Pro headphones, v3 DAC & carry case



DIAGNOSTIC HARDWARE SET C ----

Test down to -10 dB HL

Samsung Tab A7, RadioEar DD450 headphones, v3 DAC & carry case

PROTOCOLS

Frequency range	 Set A: 125 - 8,000 Hz Set B: 125 - 8,000 Hz Set C: 125 - 16,000 Hz 		
Testing protocol	 Custom protocol setup possible Default protocol (500, 1,000, 2,000, 4,000, 8,000 Hz) Daily check protocol (500, 1,000, 2,000, 4,000, 8,000 Hz) 		
Threshold seeking methods	 Shortened Ascending (ISO 8253-1:2010) Intelligent Optimisation (Fast) Intelligent Optimisation (Fastest) 		
Adjustable minimum testing intensity	 Set A: Minimum 20 dB HL Set B: Minimum - 20 dB HL Set C: Minimum - 20 dB HL 		
Adjustable response window after tone	1,500 ms - 4,000 ms		
Adjustable maximum pre-tone waiting period	1,500 ms - 4,000 ms		
Optional settings	 Test paradigm: self-test / test operator mode Narrow band automated masking enabled (with tones above 40 dB) 		





TECHNICAL SPECIFICATIONS AND PERFORMANCE

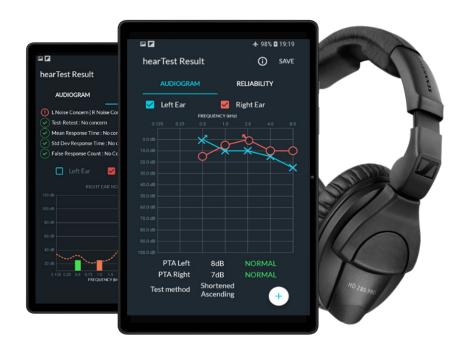
Carry case dimensions Includes a handleIncludes a shoulder strap	 35 cm x 26 cm x 12 cm 13.77 inch x 10.23 inch x 4.72 inch 	
Net weight (contents: tablet, headphones, and charger)	<1kg	
Shipping weight (quantity=1)	2 kg	
Safety and design standards	 IEC 60645-1 IEC 60601-1-2 IEC 62304 	
Medical device class	Class IIa Type B applied part None	
Degree of protection (electric shock)		
Warm up time		
Protection against ingress (IP):	IP 68 Not 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 	
Storage temperature	-20 to 50 °C	

TONE SPECIFICATIONS

Туре	Pure tone with optional masking		
Frequencies	, 3,000, 4,000, 6,000, 8,000 Hz		
Rise / fall time	versa)		
Intensity range	Set A: Sennheiser HD 280 Pro 125 Hz 65 dB HL 250 Hz 80 dB HL 500 to 3000 Hz 90 dB HL 4000 Hz 85 dB HL 6000 Hz 80 dB HL 8000 Hz 70 dB HL Note ranges paired Tab A Tisto/s) & Tab A7 Set C: RadioEar DD450 125 Hz: 75 dB HL 250, 6,000 and 8,000 Hz: 90 dB HL 10,000 Hz: 80 dB HL 12,500 Hz: 75 dB HL 16,000 Hz: 55 dB HL Note: ranges paired with USB DAC va	Set B: Sennheiser HD 280 Pro 125 Hz 75 dB HL 250 Hz 90 dB HL 500 Hz 95 dB HL 750 to 4000 Hz 100 dB HL 6000 Hz 95 dB HL 8000 Hz 90 dB HL	







HEADPHONE SPECIFICATIONS

		HD 280 Pro [dB] *Referenced to 0 dB HL testing from 500 Hz and up		DD450 [dB] "Referenced to 0 dB HL testing from 500 Hz and up	
	Frequency [Hz]	MPANL	RETSPL	MPANL	RETSPL
	125	41	37.2	64	30.5
	250	30	13.5	50	18
	500	27	6.8	38	11
	750	-	1.8	-	6
RETSPL:	1,000	31	2.4	38	5.5
(for IEC 60318-1 ear simulator)	1,500	-	3.7	-	5.5
ear sirrutator/	2,000	44	1.9	37	4.5
	3,000	-	-3.9	-	2.5
	4,000	43	2.2	51	9.5
	6,000	-	16	-	17
	8,000	32	29.4	56	17.5
	10,000	-	-	-	22
	12,500	-	-	-	27.5
	16,000	-	-	-	56

