

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.

hearTest



COMPLIES TO INTERNATIONAL STANDARDS

(R)



HARDWARE





--- DIAGNOSTIC HARDWARE SET A Test down to 10 dB HL

> Samsung Tab A, Sennheiser HD 280 Pro headphones & carry case

-- DIAGNOSTIC HARDWARE SET B Test down to -10 dB HL



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

DIAGNOSTIC HARDWARE SET C Test down to -10 dB HL

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Samsung Tab A, 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 10 dB HL Set B: Minimum - 10 dB HL Set C: Minimum - 10 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 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	IP 68Not 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 with optional masking				
Frequencies	125, 250, 500, 750, 1,000, 1,500, 2,000, 3,000, 4,000, 6,000, 8,000 Hz 10,000, 12,500, 16,000 Hz				
Rise / fall time	35 ms (-20 dBFS to -1 dBFS and vice 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 Nete ranges poired Tab Ar (T510/5/ & Tab Ar Set C: RadioEar DD450 125 Hz: 75 dB HL 250, 6,000 and 8,000 Hz: 90 dB HL 500 to 4,000 Hz: 95 dB HL 10,000 Hz: 80 dB HL 12,500 Hz: 75 dB HL 16,000 Hz: 55 dB HL Note ranges poired with USE DAC vg	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 Wate ranges paired with USB DAC vg			





HEADPHONE SPECIFICATIONS

		HD 280 Pro [dB] 'Referenced to 0 dB HL testing from 500 H2 and up		DD450 [dB] "Referenced to o dB HL testing from 500 Hz and up	
	Frequency [Hz]	MPANL	RETSPL	MPANL	RETSPL
RETSPL: (for IEC 60318-1 ear simulator)	125	41	37.2	64	30.5
	250	30	13.5	51	18
	500	27	6.8	38	11
	750	-	1.8	-	6
	1,000	31	1.4	38	5.5
	1,500	-	3.7	-	5.5
	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