



hearTest

CE-certified digital audiometer

Conduct reliable, integrated hearing tests from anywhere, any time.



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

We comply with international standards and regulations

IEC 60645-1

SANS 10154-1

ISO 8253-1

ISO 389 series

ANSI S3.6

Registrations & certifications

United States
FDA registered

Europe
CE-marked

Australia and New Zealand
ARTG and MedSafe listed

South Africa
SAHPRA registered

What sets hearTest apart from competitor solutions?



Clinically valid tests

Evidence-based solution, validated in peer-reviewed journals and calibrated to ISO/SANS standards.



Test reliability metrics

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



Environmental noise warning

Real-time monitoring of noise to alert the user of environmental noise concerns.



Efficiency

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



Extended High Frequency (EHF) testing

For early monitoring of changes in hearing ability.



Easy-to-use, adjustable protocols

Adjustable protocols and hardware options cater to diverse use cases.



Conditioning functionality

Automated testing executed within minutes, complemented by pre-programmed test sequences, enhances efficiency significantly.



Real-time, integrated data management

Patient, test and facility data are instantly consolidated on mHealth Studio Cloud, our secure online database. Effortlessly export data whenever necessary.

And even more...

- Audiogram and degree of loss classification
- Data and PDF reports are easy to download and export
- Patient signature for consent (optional)
- Narrow band masking

Hardware sets you can choose from



Diagnostic hardware Set A

Samsung Tab A
Sennheiser HD 280 Pro headphones
Hardcover carry case with foam inserts



Diagnostic hardware Set B

Samsung Tab A
Sennheiser HD 280 Pro headphones
v3 DAC
Hardcover carry case with foam inserts



Diagnostic hardware Set C

Samsung Tab A
RadioEar DD450 headphones
v3 DAC
Hardcover carry case with foam inserts

Technical specifications

Protocols

Frequency range	<ul style="list-style-type: none"> Set A: 125 - 8,000 Hz Set B: 125 - 8,000 Hz Set C: 125 - 16,000 Hz
Testing protocol	<ul style="list-style-type: none"> Custom protocol setup possible Default protocol (500, 1,000, 2,000, 4,000, 8,000 Hz) Daily biologic calibration protocol (500, 1,000, 2,000, 4,000, 8,000 Hz)
Threshold seeking methods	<ul style="list-style-type: none"> Shortened Ascending (ISO 8253-1:2010) Intelligent Optimization (Fast) Intelligent Optimization (Fastest)
Adjustable minimum testing intensity	<ul style="list-style-type: none"> Set A: Minimum 10 dB HL Set B: Minimum - 10 dB HL Set C: Minimum - 10 dB HL
Adjustable response window after tone	<ul style="list-style-type: none"> 1,500 ms - 4,000 ms
Adjustable maximum pre-tone waiting period	<ul style="list-style-type: none"> 1,500 ms - 4,000 ms
Optional settings	<ul style="list-style-type: none"> Test paradigm: self-test / test operator mode Narrow band automated masking enabled (with tones above 40 dB)

Technical specifications and performance

Carry case dimensions <ul style="list-style-type: none"> Includes a handle Includes a shoulder strap 	<ul style="list-style-type: none"> 35 cm x 27 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)	1 kg
Safety and design standards	<ul style="list-style-type: none"> IEC 60645-1 IEC 60601-1-2 IEC 62304
Degree of protection (electric shock)	Type B applied part
Warm up time	None
Protection against ingress (IP) <ul style="list-style-type: none"> Tablet Headphones 	<ul style="list-style-type: none"> IP 68 Not specified
Usage environment	Professional healthcare environment
<ul style="list-style-type: none"> Operating temperature Humidity Ambient pressure 	<ul style="list-style-type: none"> 15 to 35 °C 30 to 90 % RH Non-condensing 98 to 104 kPa
Shipping and storage conditions <ul style="list-style-type: none"> Temperature Humidity 	<ul style="list-style-type: none"> 0 to 30 °C 30 to 60 % RH Non-Condensing 70 to 106 kPa

Tone specifications

Type	Pure tone	
Frequencies *Headphone dependant	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 4,000 Hz 85 dB HL 6,000 Hz 80 dB HL 8,000 Hz 70 dB HL <small>*Note: ranges paired Tab A (T510/5) & Tab A7</small>	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 6,000 Hz 95 dB HL 8,000 Hz 90 dB HL <small>Note: ranges paired with USB DAC v3</small>
	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 <small>*Note: ranges paired with USB DAC v3</small>	

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

RETSPL (for IEC 60318-1 ear simulator)	Frequency [Hz]	MPANL	RETSPL	MPANL	RETSPL
	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



See hearTest in action

Contact our team to book a free demo, and join our mission as we continue to break barriers in clinical research and hearing testing.

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