



hearScreen® is an award-winning hearing screening solution on a smartphone. The user-friendly design, automated test protocols and quality control features allow minimally trained persons to conduct quick and accurate hearing screening.

hearScreen® offers a cost effective solution to hearing screening and is clinically-validated to be used on both adult and child populations.

hearScreen®

HEARSCREEN FEATURES



CLINICALLY VALID SCREENINGS

Evidence-based with calibrated headphones.



PASS / REFER RESULT

Default and customisable settings based on screening frequency and intensity.



TIME-EFFICIENT

Hearing screening in 1 to 2 minutes.



COST-EFFECTIVE

Cut screening costs by >50% and do accurate screening at a fraction of traditional audiometry costs.



ENVIRONMENTAL NOISE WARNING

Pre-test and real-time monitoring of noise to alert the user of environmental noise concerns.



COMPLETE SOLUTION

Comprehensive solution for detection, referral and reporting.



LINKAGE TO CARE

Text message feature*, downloadable reports as well as geo-location information added to test results.*

*Available at an additional cost.



EASY-TO-USE, ADJUSTABLE PROTOCOLS

Best practice audiometry protocols with flexible customisation.



SEVERITY PROTOCOL

Quick threshold tracking test for severity classification.



AUTOMATED TESTING

Test sequences are pre-programmed and automatically presented to improve accuracy and efficiency.



DIGITAL DATA MANAGEMENT

Patient, test and facility data consolidated instantly on a secure online database and viewed on mHealth Studio Cloud.



QUALITY CONTROL INDEX

Smart features that allow off-site quality control and reliability tracking.



SIMPLE, USER-FRIENDLY SCREENING

Designed and developed to be operated by minimal trained people.*

*A 3-day training course might apply within certain territories to allow an individual to conduct hearing screening within a school environment. Consult your local regulatory body for any applicable restrictions.



Frequency Range	500 - 8000 Hz
Testing Intensity	20 - 40dB (Adjustable per age group adult/child)
Testing Protocol	<p>Default or custom protocol setup.</p> <p>Default:</p> <ul style="list-style-type: none"> • Default protocol (1000, 2000, 4000 Hz) • Default protocol with severity option (1000, 2000, 4000 Hz) <p>Custom:</p> <ul style="list-style-type: none"> • Select up to 5 frequencies as part of a screening protocol. • Various protocols can be setup and saved.
Test administration	<ul style="list-style-type: none"> • Test operator mode
Additional settings	<ul style="list-style-type: none"> • Optional severity classification via the Severity Protocol feature • Onscreen test information and progress visibility • Severity classification up to 70 dB HL

TECHNICAL SPECIFICATIONS AND PERFORMANCE

Dimensions	26cm x 18cm x 9.5cm
Net Weight (Contents: Smart-phone, headphones, and charger)	< 1 kg
Shipping weight (Quantity=1)	2 kg
Power Source	Internally Powered
Usage Environment:	<ul style="list-style-type: none"> • Hearing screening in schools, research and project environments. • Hearing screening service in clinical practice
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
Storage temperature	-20 to 50 °C

TONE

Type	Pure Tone
Frequencies	500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz
Rise / Fall time	35 ms (-20 dBFS to -1 dBFS and vice versa)
Intensity Range	20 - 70 dB HL (Including severity screening)
Accuracy	>99%
SPL Accuracy	Within 3 dB across all frequencies

		HD 280 Pro		HDA 300	
		Circumaural		Circumaural	
RETSPL: (determined using an IEC 60318-1 ear simulator)	Frequency [Hz]	MPANL	RETSPL	MPANL	RETSPL
	125	41	37.2	48	26.2
	250	30	13.5	37	20.1
	500	27	6.8	22	8.6
	750	-	1.8	-	5.1
	1000	31	1.4	23	2.7
	1500	-	3.7	-	3.2
	2000	44	1.9	42	0.5
	3000	-	-3.9	-	-1.6
	4000	43	2.2	46	0.1
	6000	-	16	-	20.9
	8000	32	29.4	32	23.1



SENNHEISER HDA 300



SENNHEISER HD 280 PRO

1 Sennheiser (2013). HDA 300 - Reference of measurements. https://en-ie.sennheiser.com/global-downloads/file/4745/HDA300_References.pdf