



## PURE TONE SCREENING AUDIOMETER

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

## BENEFITS & FEATURES

hearScreen



### 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-screening 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 screening 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

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



### DIGITAL DATA MANAGEMENT

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



### QUALITY CONTROL INDEX

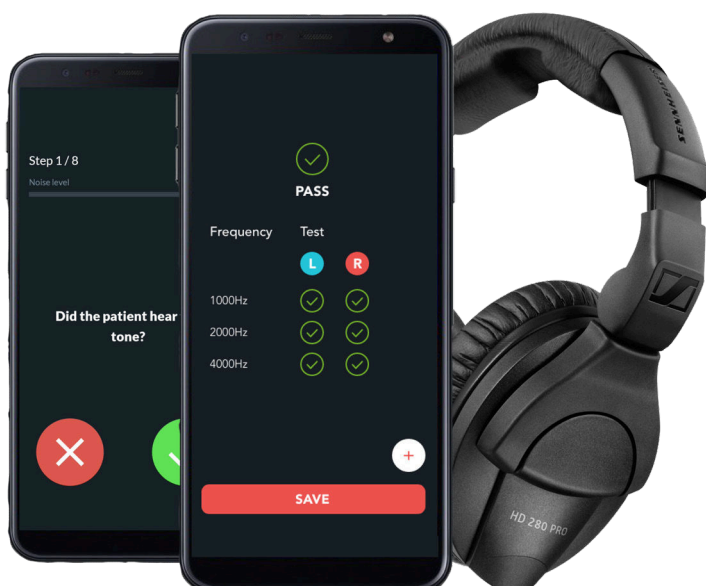
Smart features that allow off-site quality control and reliability tracking.



### SIMPLE, USER-FRIENDLY SCREENING

Designed and developed to be operated by minimally 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.



Available in **English, Spanish & French\***

\*hearScreen® can be provided in these languages on request.





**SCREENING SET**

Samsung Galaxy J4 Core,  
Sennheiser HD 280 Pro  
headphones & carry case

**PROTOCOLS**

Frequency range	500 - 8,000 Hz
Testing intensity	20 - 40 dB (Adjustable per age group adult/child)
Testing protocol	<p>Default or custom protocol setup</p> <p>Default:</p> <ul style="list-style-type: none"> <li>• Default protocol (1,000, 2,000, 4,000 Hz)</li> <li>• Default protocol with severity option (1,000, 2,000, 4,000 Hz)</li> </ul> <p>Custom:</p> <ul style="list-style-type: none"> <li>• Select up to 5 frequencies as part of a screening protocol</li> <li>• Various protocols can be set up and saved</li> </ul>
Additional settings	<ul style="list-style-type: none"> <li>• Optional severity classification via the severity protocol feature</li> <li>• On-screen test information and progress visibility</li> <li>• Severity classification up to 70 dB HL</li> </ul>

**TECHNICAL SPECIFICATIONS AND PERFORMANCE**

Carry case dimensions <ul style="list-style-type: none"> <li>• Includes a handle</li> <li>• Includes a shoulder strap</li> </ul>	<ul style="list-style-type: none"> <li>• 35 cm x 26 cm x 12 cm</li> <li>• 13.77 inch x 10.23 inch x 4.72 inch</li> </ul>
Net weight (contents: smart-phone, headphones, and charger)	< 1 kg
Shipping weight (quantity=1)	2 kg
Usage environment	<ul style="list-style-type: none"> <li>• Hearing screening in schools, research and project environments</li> <li>• Hearing screening service in clinical practice</li> </ul>
Operating temperature Humidity Ambient pressure	<ul style="list-style-type: none"> <li>• 15 to 35 °C</li> <li>• 30 to 90 %RH Non-Condensing</li> <li>• 98 to 104 kPa</li> </ul>
Storage temperature	-20 to 50 °C

## TONE SPECIFICATIONS

Type	Pure tone
Frequencies	500, 750, 1,000, 1,500, 2,000, 3,000, 4,000, 6,000, 8,000 Hz
Rise / fall time	35 ms (-20 dBFS to -1 dBFS and vice versa)
Intensity range	20 - 40 dB HL (Including severity screening)

## HEADPHONE SPECIFICATIONS

RETSPL: (determined using an IEC 60318-1 ear simulator)	HD 280 Pro [dB] <small>*Referenced to 0 dB HL testing from 500 Hz and up</small>		
	Frequency [Hz]	MPANL	RETSPL
	125	41	37.2
	250	30	13.5
	500	27	6.8
	750	-	1.8
	1,000	31	1.4
	1,500	-	3.7
	2,000	44	1.9
	3,000	-	-3.9
	4,000	43	2.2
	6,000	-	16
	8,000	32	29.4