



AH 263 桌面型仿真人头
产品规格书

AH 263 Desktop Head Simulator
Product Specifications

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AH 263是一款桌面型的仿真人头，能够准确再现成年人正中头部声音的传输和拾取特性，可满足各种仿真场景的声学测试需求：包括耳机声学测试，车载智能坐舱，智能家居，笔记本电脑，智能眼镜，双耳录音等等需要考虑人头架构仿真场景的声学测试应用。

通过参考 ITU-T P.58还原人体解剖结构，AH 263 还对耳道进行高仿真设计，非常适合对头戴式耳机、入耳式耳机、半入耳式耳机进行高精度的声学测量，助力于获得更精确的 ANC 传递函数。

产品参数

基本特点

整体参数	
仿真耳	
压力场麦克风频响	20Hz – 8KHz ± 0.5dB 8KHz – 16kHz ± 1dB
标准	ITU-T P.57, 2 型传感器 IEC 60318-1:2009
频率响应	符合IEC 60318-4:2010
底噪	<16dBA
灵敏度范围	50mV/Pa (-26.0dB±2dB) re 1V/Pa
动态范围	16dBA-135dBA
供电要求	IEPE 4mA
仿真嘴	
测试范围	100Hz – 10KHz
最大功率	10W
阻抗	4 ohm
频率响应（均衡后）	满足 ETSI TS 102 924
谐波失真	优于ITU-T P.58 标准
使用&放置环境	
使用温度范围	0°C – 50 °C, 32°F – 122°F
存储温度范围	-20°C – 70°C, -4°F – 158°F
湿度	20% – 80% 相对湿度
尺寸	
整体尺寸（长*宽*高）	328*218*325 mm
重量	3.3Kg

配置

- 符合 ITU-T P.58 的部分外形几何尺寸
- 满足耳机、智能眼镜、汽车智能座舱等多种场景的测试需求
- 耳机取放一致性高

仿真耳

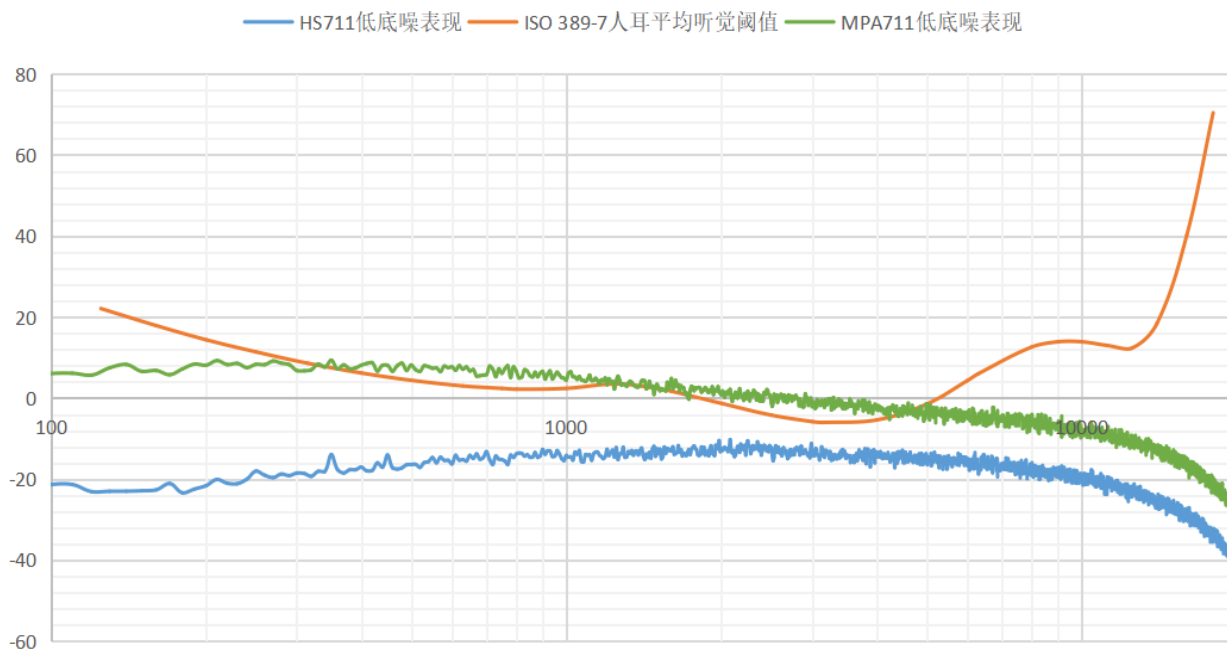
- 仿真耳廓参考 ITU-T P.57 的解剖学形状的耳廓 3.3 型
- 符合 IEC 60318-4:2010 Ed.1.0（原 IEC 60711）电声学-人耳及头部的模拟器，第 4 部分：测量插入式耳机用堵塞耳模拟器
- 符合 ITU-T 建议 P.57(08/96)P 系列：电话传输质量，测量目标的设备：仿真耳
- 符合 SJ/T 10659-1995 测量插入式耳机用堵塞耳模拟器

仿真嘴

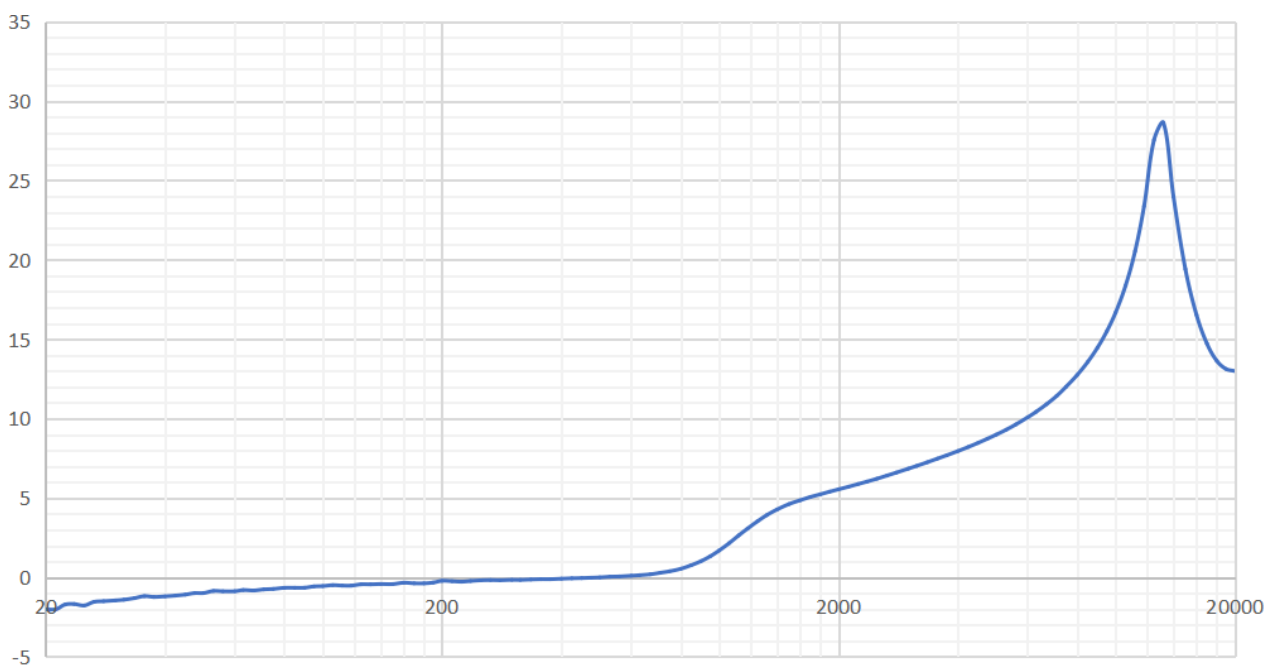
- 符合 IEEE269,661 国际标准和 ITU-T P.51 建议的“嘴基准点”发送声信号的要求
- 声学测量标准声源
- 低失真，高稳定性

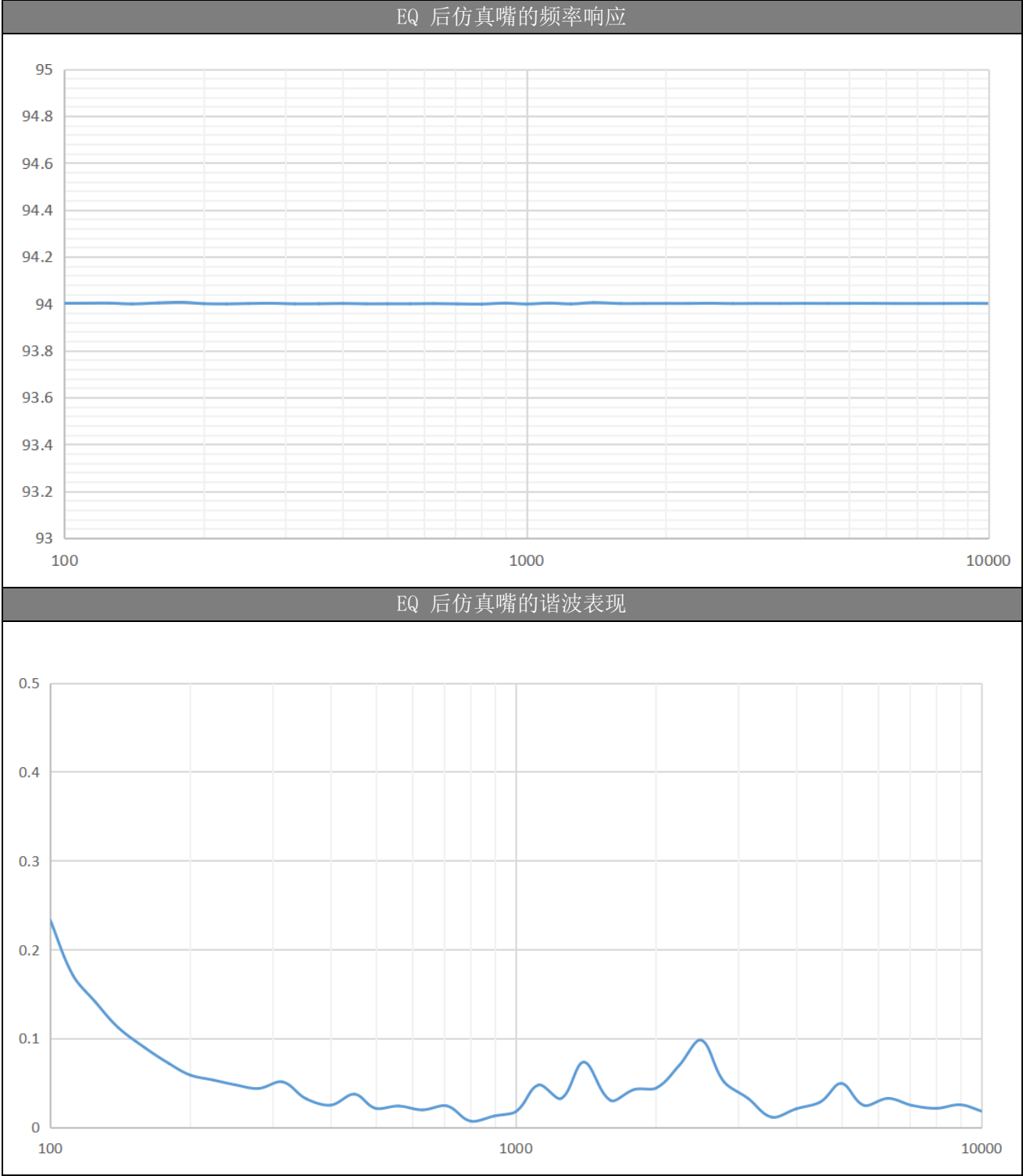
相关曲线指标

仿真耳的低底噪表现 & ISO 389-7 人耳听觉阈值



仿真耳的频率响应



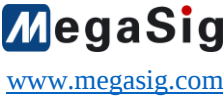


订购信息

主体	
990026-07	AH 262, 桌面型仿真声学人头模型, 包括头型腔, 2 个标配仿真耳 (ER 87L, ER 87R), 1 个内置仿真嘴, 校准支架 (不包含自由场麦克风)
选配	
910002-01	TT 626, 高精度程控转台

580026	派力肯防水箱，外尺寸 54.3*41.4*31.9cm
耳朵选件	
990026-11	ER 87L, II 代硅胶仿真耳，硬度Shore-00 35° ±6°，ITU-T P. 57 Type 3.3型耳道建议（主体配置默认自带）
990026-12	ER 87R, II 代硅胶仿真耳，硬度Shore-00 35° ±6°，ITU-T P. 57 Type 3.3型耳道建议（主体配置默认自带）
990026-13	ER 83L, II 代硅胶仿真耳，硬度Shore-00 35° ±6°，模拟小耳道使用场景
990026-14	ER 83R, II 代硅胶仿真耳，硬度Shore-00 35° ±6°，模拟小耳道使用场景
990026-15	ER 82L，II 代硅胶仿真耳，硬度Shore-00 35° ±6°，模拟小耳廓、耳道使用场景
990026-16	ER 82R，II 代硅胶仿真耳，硬度Shore-00 35° ±6°，模拟小耳廓、耳道使用场景
990026-17	ER 85L，II 代硅胶仿真耳，硬度Shore-00 35° ±6°，模拟小耳廓使用场景
990026-18	ER 85R，II 代硅胶仿真耳，硬度Shore-00 35° ±6°，模拟小耳廓使用场景

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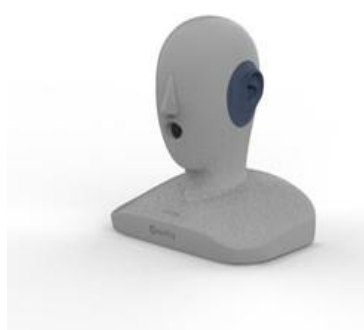
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AH 263 Desktop head simulator

Version number: V1.2_20250828_EN



AH 263 is a desktop simulated human head that can accurately reproduce the sound transmission and pickup characteristics of an adult's head in the median plane, meeting the acoustic testing requirements for various simulated scenarios. These include acoustic testing for headphones, in-vehicle smart cabins, smart homes, laptops, smart glasses, binaural recording, and other acoustic testing applications that necessitate the simulation of human head anatomy.

By referencing ITU-T P.58 to replicate human anatomical structures, AH 263 also incorporates a highly realistic design of the ear canal. It is exceptionally well-suited for high-precision acoustic measurements of over-ear, in-ear, and half-in-ear headphones, facilitating the acquisition of more accurate ANC transfer functions.

Product parameter

Basic feature

Parameters	
Ear simulator	
Pressure-field microphone frequency response	20Hz – 8KHz ± 0.5dB 8KHz – 16kHz ± 1dB
Standard	ITU-T P.57, type 2 sensor IEC 60318-1:2009
Frequency response	Complies with IEC 60318-4:2010
Typical noise level	<16dBA
Sensitivity	50mV/Pa (-26.0dB±2dB) re 1V/Pa
Dynamic range	16dBA-135dBA
Power supply requirement	IEPE 4mA
Mouth simulator	
Test range	100Hz – 10kHz
Maximum power	10W
Impedance	4 ohm
Frequency response (after equalization)	Satisfy ETSI TS 102 924
THD	Superior to ITU-T P.58 standard
Use & Place the environment	
Operating temperature	0°C – 50 °C, 32°F – 122°F
Storage temperature	-20°C – 70°C, -4°F – 158°F
Humidity	20% – 80% RH
Dimensions	
Overall dimensions (length * width * height)	328*218*325 mm
Weight	3.3Kg

Configuration

- Partial external geometric dimensions conforming to ITU-T P.58
- Meet testing requirements for multiple scenarios including headphones, smart glasses, and automotive smart cockpits
- High consistency in headphone placement and removal

Ear simulator

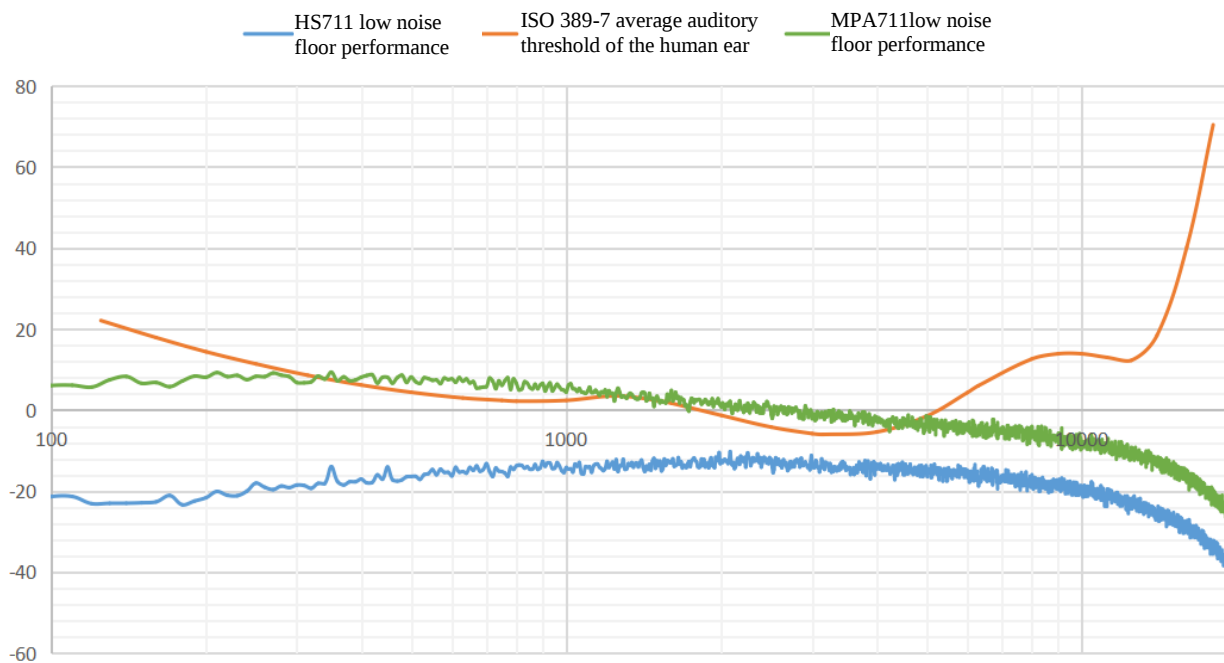
- Simulated auricle refers to the anatomical shape of the auricle 3.3 type in ITU-T P.57
- Compliant with IEC 60318-4:2010 Ed.1.0 (formerly IEC 60711) - electroacoustics - simulators of human head and ear - Part 4: occluded-ear simulator for the measurement of earphones coupled to the ear by insert earphones.
- Compliant with ITU-T recommendation P.57 (08/96) - P-series: telephone transmission quality, and equipment for objective measurements - Simulator Ear.
- Compliant with SJ/T 10659-1995: occluded ear simulator for measuring insert earphones

Mouth simulator

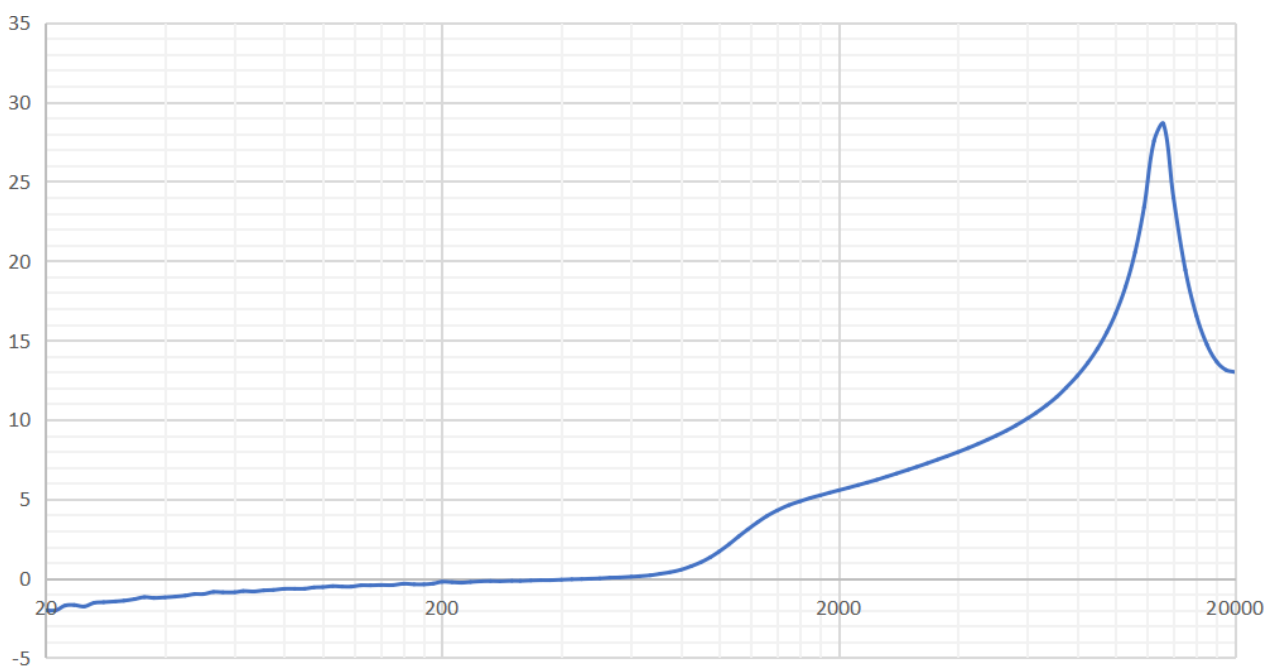
- Compliant with the requirements of IEEE 269, 661 international standards and ITU-T P.51 recommendation for sending acoustic signals from the "mouth reference point"
- Acoustic measurement standard sound source
- Low distortion, high stability

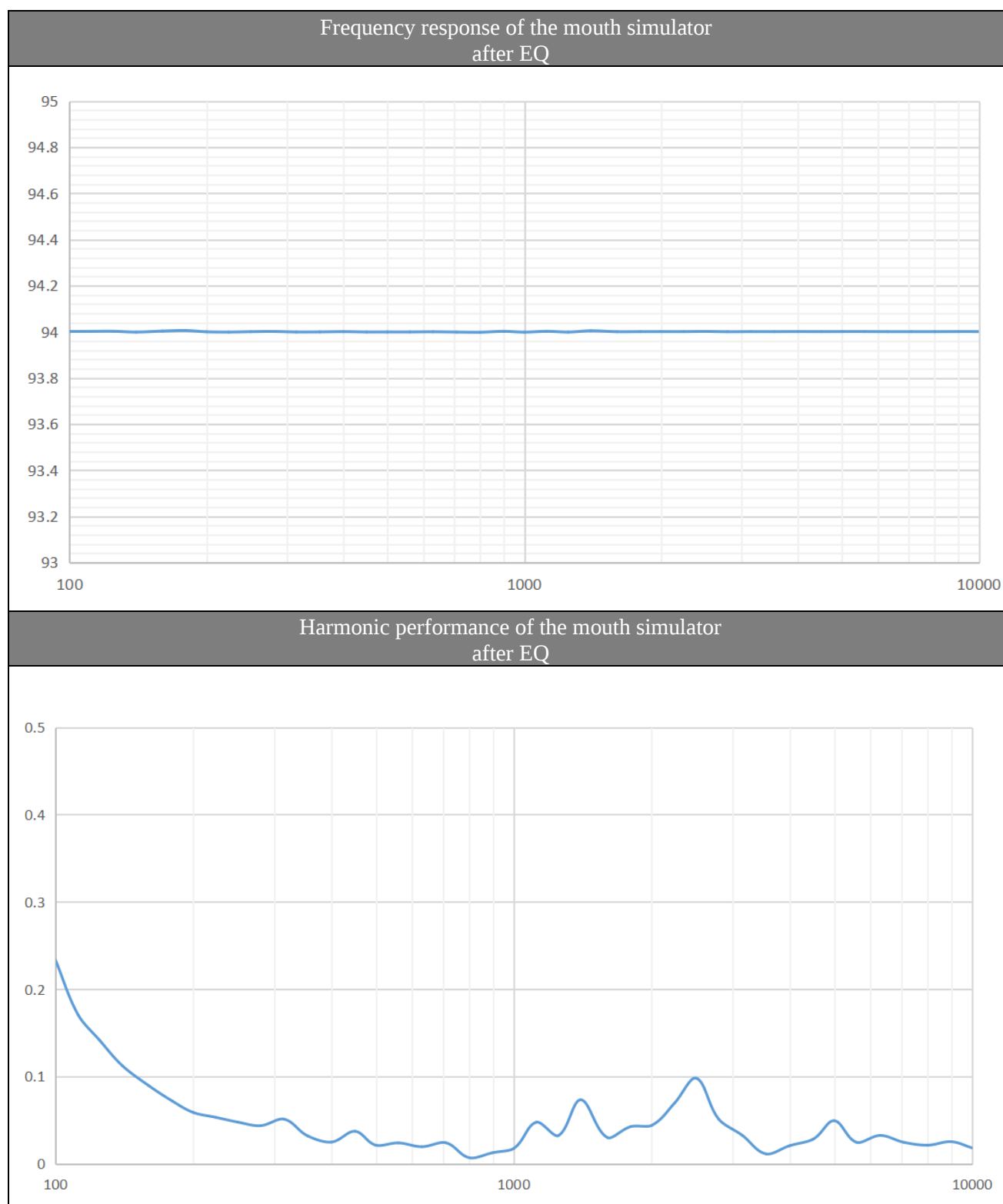
Relevant curve indicators

Low background noise performance of the ear simulator & ISO 389-7 human ear auditory threshold



Frequency response of the ear simulator





Ordering information

Subject

990026-07 AH 262: desktop simulator acoustic head model, including head cavity, 2 standard-equipped ear simulator (ER 87L, ER 87R), 1 built-in mouth simulator, and calibration bracket (free-field microphone not included)

Optional

910002-01	<i>TT 626, high-precision program-controlled turntable</i>
580026	<i>Pelican waterproof box, external dimension 54.3*41.4*31.9cm</i>
Ear option	
990026-11	<i>ER 87L, II generation silicone ear simulator, hardness:Shore-00 35° ±6° , ITU-T P.57 Type 3.3 ear canal recommendation (default included in the main configuration)</i>
990026-12	<i>ER 87R, II generation silicone ear simulator, hardness:Shore-00 35° ±6° , ITU-T P.57 Type 3.3 ear canal recommendation (default included in the main configuration)</i>
990026-13	<i>ER 83L, II generation silicone ear simulator, hardness:Shore-00 35° ±6° , simulate the usage scenarios of the small ear canal</i>
990026-14	<i>ER 83R, II generation silicone ear simulator, hardness:Shore-00 35° ±6° , simulate the usage scenarios of the small ear canal</i>
990026-15	<i>ER 82L , II generation silicone ear simulator, hardness:Shore-00 35° ±6° , simulate the usage scenarios of small auricles and ear canals</i>
990026-16	<i>ER 82R, II generation silicone ear simulator, hardness:Shore-00 35° ±6° , simulate the usage scenarios of small auricles and ear canals</i>
990026-17	<i>ER 85L, II generation silicone ear simulator, hardness:Shore-00 35° ±6° , simulate the usage scenarios of small auricles</i>
990026-18	<i>ER 85R, II generation silicone ear simulator, hardness:Shore-00 35° ±6° , simulate the usage scenarios of small auricles</i>

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