

AH 265 仿真人头和躯干

产品规格书

AH 265 Head and Torso Simulator

Product Specification

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产品简介



头部配合标准底座可单独使用，躯干作为选配件购买

仿真人头和躯干

AH 265是一款可带躯干的桌面级仿真人头模型，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，智能手机，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 265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。

基本特点

配置

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

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

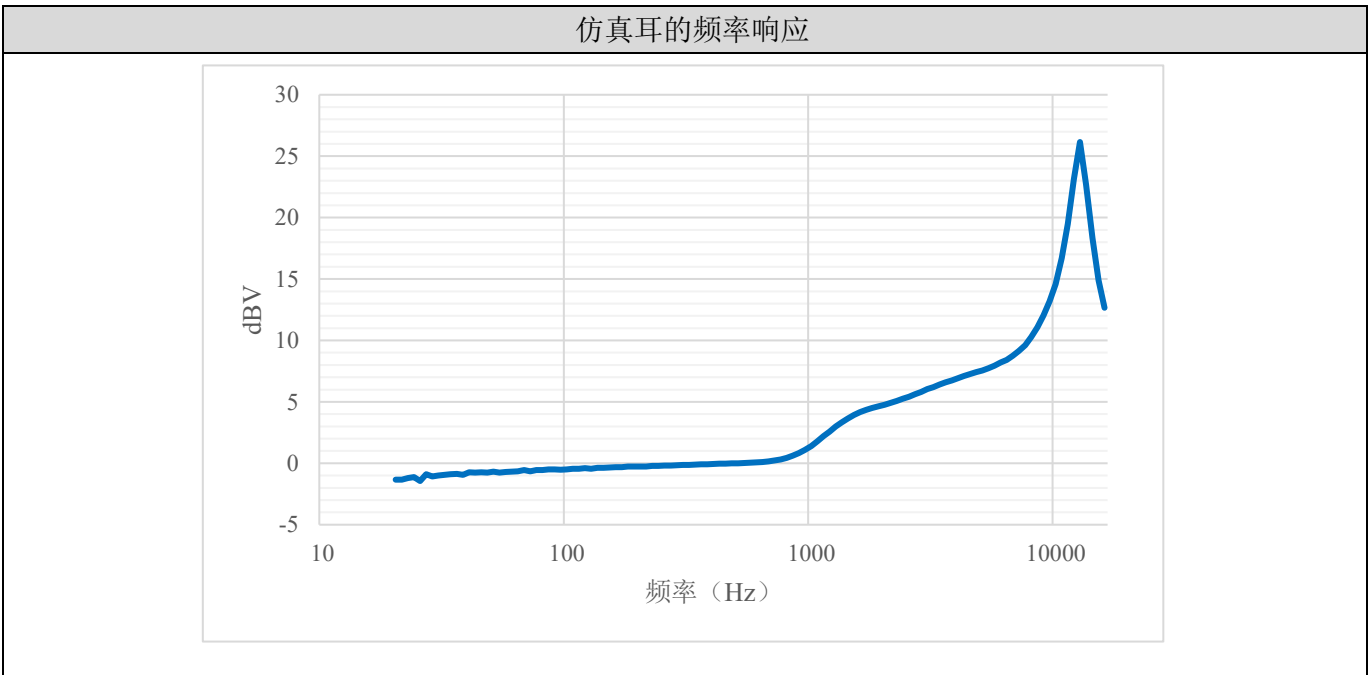
躯干

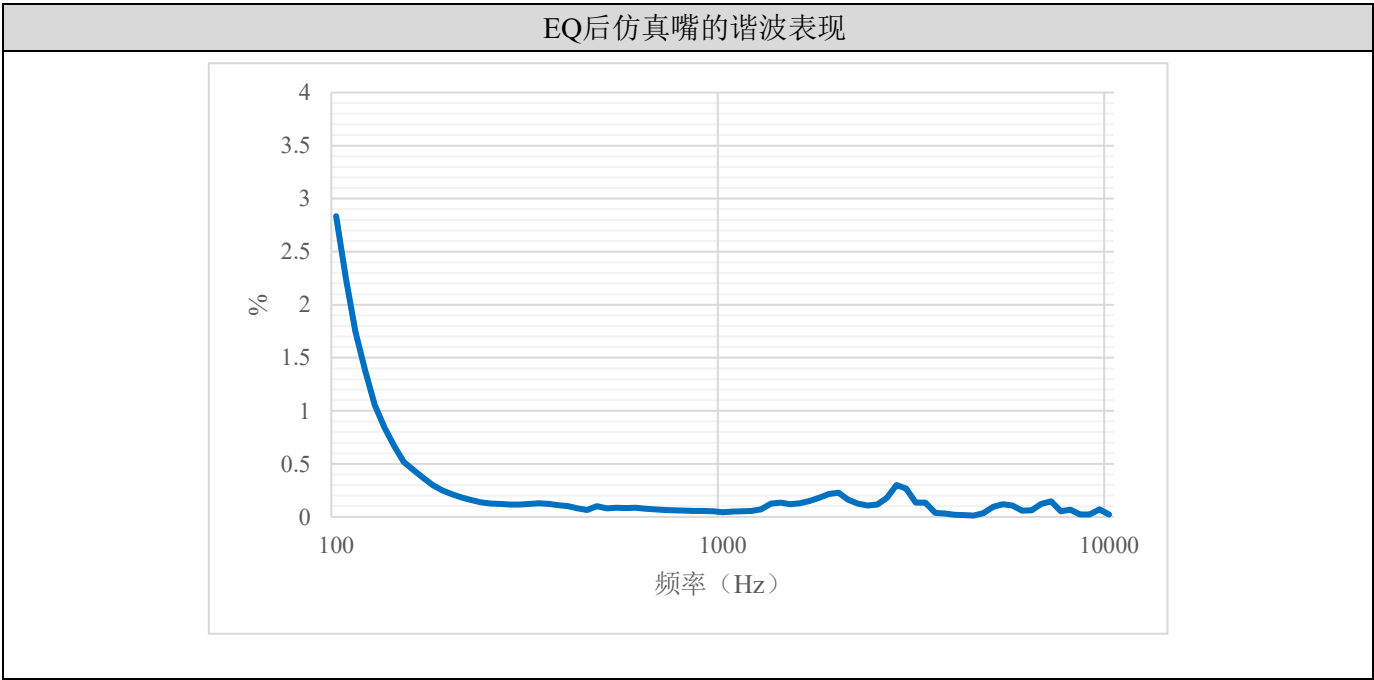
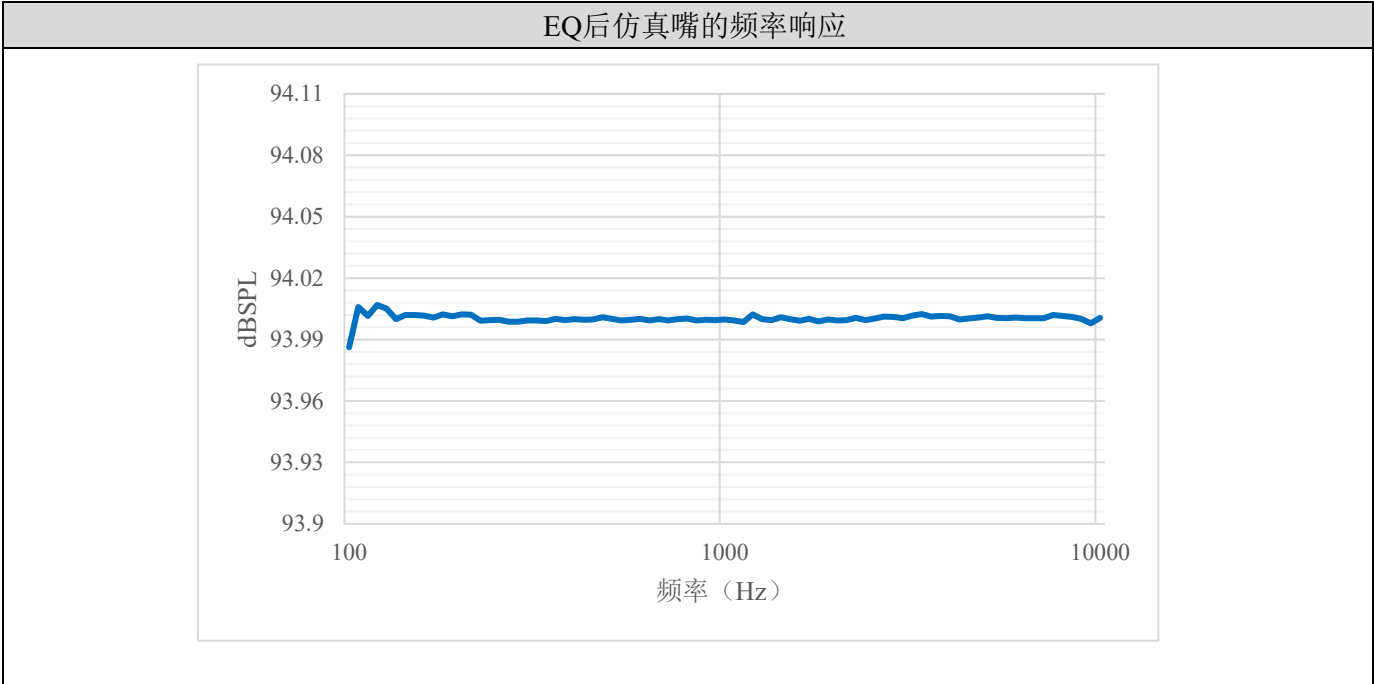
- 外观几何形状符合ITU-T Rec.p.58

规格参数

整体参数	
仿真耳	
压力场麦克风频响	20Hz - 8KHz ± 0.5dB 8KHz - 16kHz ± 1dB
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
人头和躯干	
整体尺寸（长*宽*高）	402 × 242 × 767 mm
重量	约13.4Kg

相关曲线指标





订购信息

主体	
990027-07	AH 265, III代桌面级仿真人头模型, 包括头型腔, 2个标配仿真耳 (ER 87i L, ER 87i R), 1个内置仿真嘴, 校准支架 (不包含自由场麦克风)
990027-06	AHT 265, III代桌面级仿真人头模型+躯干模型, 包括头型腔, 2个标配仿真耳 (ER 87i L, ER 87i R), 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
580035	派力肯防水箱, 针对人头+躯干而设计的防水箱
990027-10	躯干 AT 235, 符合ITU-T Rec.p.58
耳朵选件	
990026-34	ER 87i L, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, ITU-T P.57 Type 3.3型耳道建议 (主体配置默认自带)
990026-35	ER 87i R, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, ITU-T P.57 Type 3.3型耳道建议 (主体配置默认自带)
990027-13	ER 83i L, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, 模拟小耳道使用场景
990027-14	ER 83i R, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, 模拟小耳道使用场景
990027-15	ER 82i L, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, 模拟小耳廓、耳道使用场景
990027-16	ER 82i R, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, 模拟小耳廓、耳道使用场景
990027-17	ER 85i L, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, 模拟小耳廓使用场景
990027-18	ER 85i R, III代硅胶仿真耳, 硬度Shore-OO 35°±6°, 模拟小耳廓使用场景

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Product introduction



Head can be used separately with a standard base, torso can be purchased as an optional accessory

Head and Torso Simulator

AH 265 is a desktop artificial head model that can be equipped with a torso. It accurately reproduces the sound transmission and pickup characteristics of an adult's central head, and is capable of meeting the acoustic testing requirements of various simulation scenarios. These include acoustic testing applications where head structure simulation is required, such as headphone acoustic testing, as well as testing for smartphones, in-vehicle smart cockpits, smart homes, laptops, smart glasses, and binaural recording.

By referencing ITU-T P.58 to replicate human anatomical structures, the AH 265 also features a highly simulated ear canal design. It is particularly suitable for high-precision acoustic measurement of over-ear headphones, in-ear headphones, and semi-in-ear headphones, helping to obtain more accurate ANC transfer functions.

Features

Configuration

- Conforms to the geometric dimension requirements of ITU-T P.58
- High consistency in headphone placement and removal
- Suitable for testing needs across multiple scenarios, such as headphones, smart glasses, and automotive smart cockpits

Ear simulator

- Artificial Pinna designed with reference to the anatomical shape of Type 3.3 as specified 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 - ear simulator
- 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

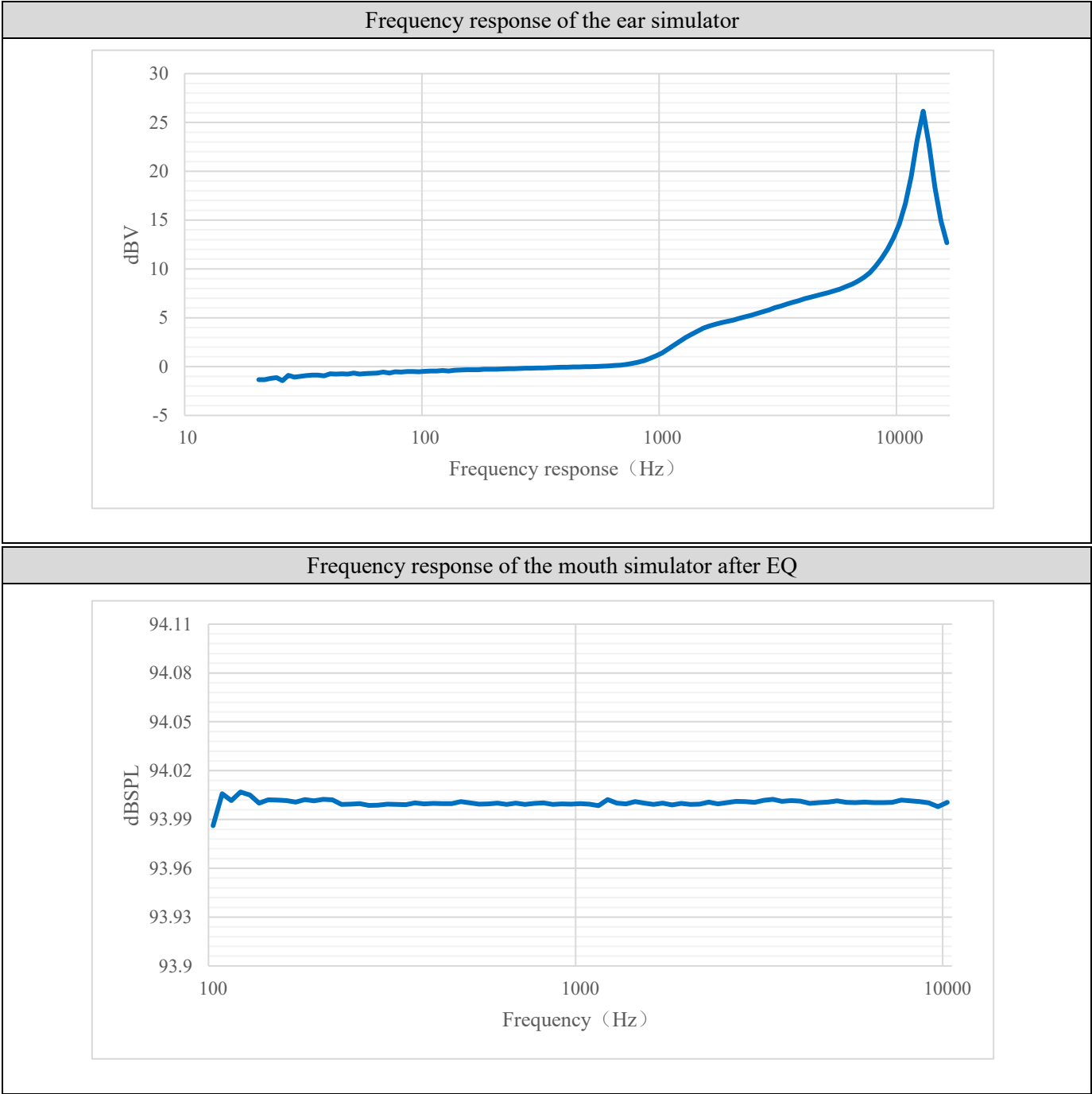
Torso

- Appearance geometry conforms to ITU-T Rec.p.58

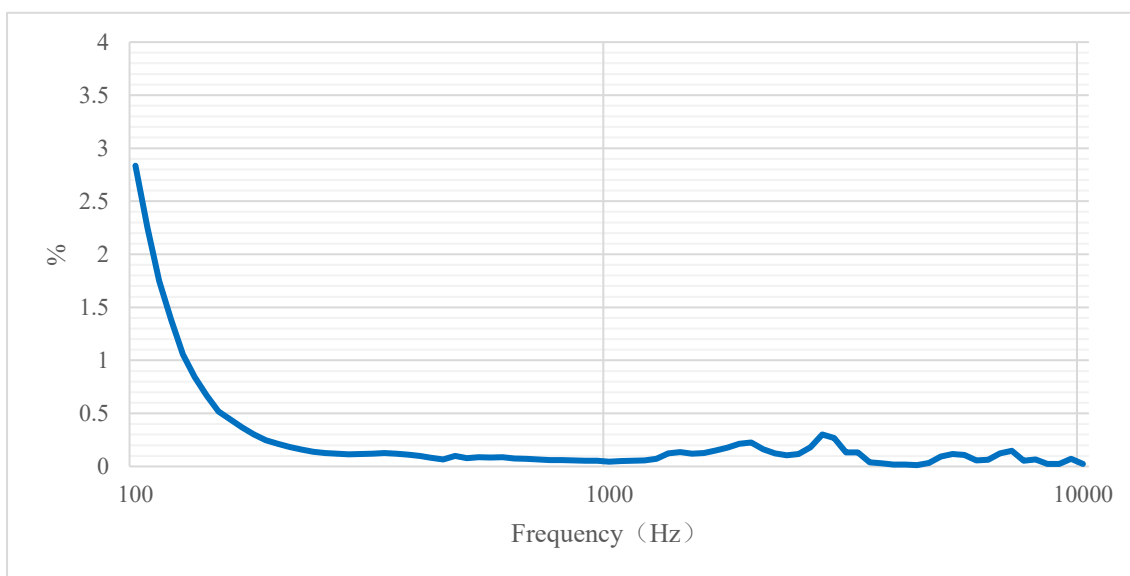
Specification parameters

Parameters	
Ear simulator	
Pressure-field microphone frequency response	20Hz - 8KHz $\pm$ 0.5dB 8KHz - 16kHz $\pm$ 1dB
Typical noise level	<16dBA
Sensitivity	50mV/Pa (-26.0dB $\pm$ 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
Head and torso	
Overall dimensions (length * width * height)	402 × 242 × 767 mm
Weight	About 13.4Kg

Relevant curve indicators



Harmonic performance of the mouth simulator after EQ



Ordering Information

Main Units	
990027-07	AH 265, Gen III Desktop head simulator model, includes head cavity, 2 standard ear simulator (ER 87i L, ER 87i R), 1 built-in mouth simulator, calibration fixture (free-field microphone not included)
990027-06	AHT 265, Gen III Desktop Artificial Head + Torso, includes head cavity, 2 standard artificial ears (ER 87i L, ER 87i R), 1 built-in artificial mouth, calibration fixture (free-field microphone not included)
Optional	
910002-01	TT 626, High-precision programmable turntable
580035	Pelican waterproof box, a waterproof box designed for human head and torso
990027-10	Torso AT 235, compliant with ITU-T Rec. P.58
Ear Options	
990026-34	ER 87i L, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, ITU-T P.57 Type 3.3 ear canal recommended (included by default in main unit)
990026-35	ER 87i R, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, ITU-T P.57 Type 3.3 ear canal recommended (included by default in main unit)
990027-13	ER 83i L, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, simulates small ear canal scenarios
990027-14	ER 83i R, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, simulates small ear canal scenarios
990027-15	ER 82i L, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, simulates small pinna and ear canal scenarios
990027-16	ER 82i R, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, simulates small pinna and ear canal scenarios
990027-17	ER 85i L, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, simulates small pinna scenarios
990027-18	ER 85i R, Gen III Silicone ear simulator, Hardness Shore-OO 35°±6°, simulates small pinna scenarios

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