

Head and Torso Simulator

Version: V20230311_EN



AHT 265



AH 265

AH 265 is a tabletop-level artificial head with ability to match torso, which can accurately reproduce the transmission and pick-up characteristics of the sound of the adult's central head, meeting the acoustic test requirements of various simulation scenarios, including earphone acoustic test, smart phone, smart seat in automobile, smart home, laptop, smart glasses, binaural recording and other acoustic test applications that need to consider the human head architecture simulation scenario.

By referring to ITU-T P.58 to restore the anatomy structure of the human body, AH 265 also carries out high simulation design for the ear canal, which is very suitable for high-precision acoustic measurement of headsets, in-ear earphones and semi-in-ear earphones, contributing to obtain more accurate ANC transfer functions.

the artificial head can be used alone with the standard base & the torso can be purchased as an option

Parameters

Overall Parameters	
Artificial Ear	
Pressure Field Microphone Frequency Response	20Hz - 10KHz \pm 0.5dB 10KHz - 16kHz \pm 1dB
Standard	ITU-T P.57, type 2 sensor
Frequency Response	Compliant with IEC 60318-4:2010
Noise Floor	<31dBA, conventional configuration
Sensitivity Range	-41.0~-36dB re 1V/Pa, -27.0~-23.1dB re 1V/Pa
Dynamic Range	33dBA-130dBA, 16dBA-120dBA
Power Supply	24V IEPE
Mouth Simulator	
Test Range	100Hz - 10KHz
Maximum Power	10W(sine)
Impedance	4 Ω
Frequency Response (After Equalization)	Compliant with ETSI TS 102 924
Harmonic Distortion	Better than ITU-T P.58 standard
Use & Placement Environment	
Operating Temperature Range	0°C - 50 °C, 32°F - 122°F
Storage Temperature Range	-20°C - 70°C, -4°F - 158°F
Humidity	20% - 80% relative humidity
Head and Torso Simulator	
Overall Size (length * width * height)	402*242*767 mm
Height	/

Overall Feature**Configuration**

- Acoustic characteristics refers to ITU-T P.58.
- High consistency of headphone picking and placing.
- Suitable to match various test scenarios such as headphones, smart glasses, and intelligent car cabin.

Artificial Ear

- Artificial ear profile with reference to the anatomical shape of ITU-T P.57 ear profile type 3.3.
- Compliant with IEC 60318-4:2010 Ed.1.0 (former IEC 60711) Electroacoustics - Simulators of the human ear and head, Part 4: Plugged ear simulator for measuring plug-in earphones.
- Compliant with ITU-T Recommendation P.57(08/96) P series: Telephone transmission quality, equipment for measuring targets: artificial ear.
- Compliant with SJ/T 10659-1995 plugged ear simulators for measuring plug-in earphones.

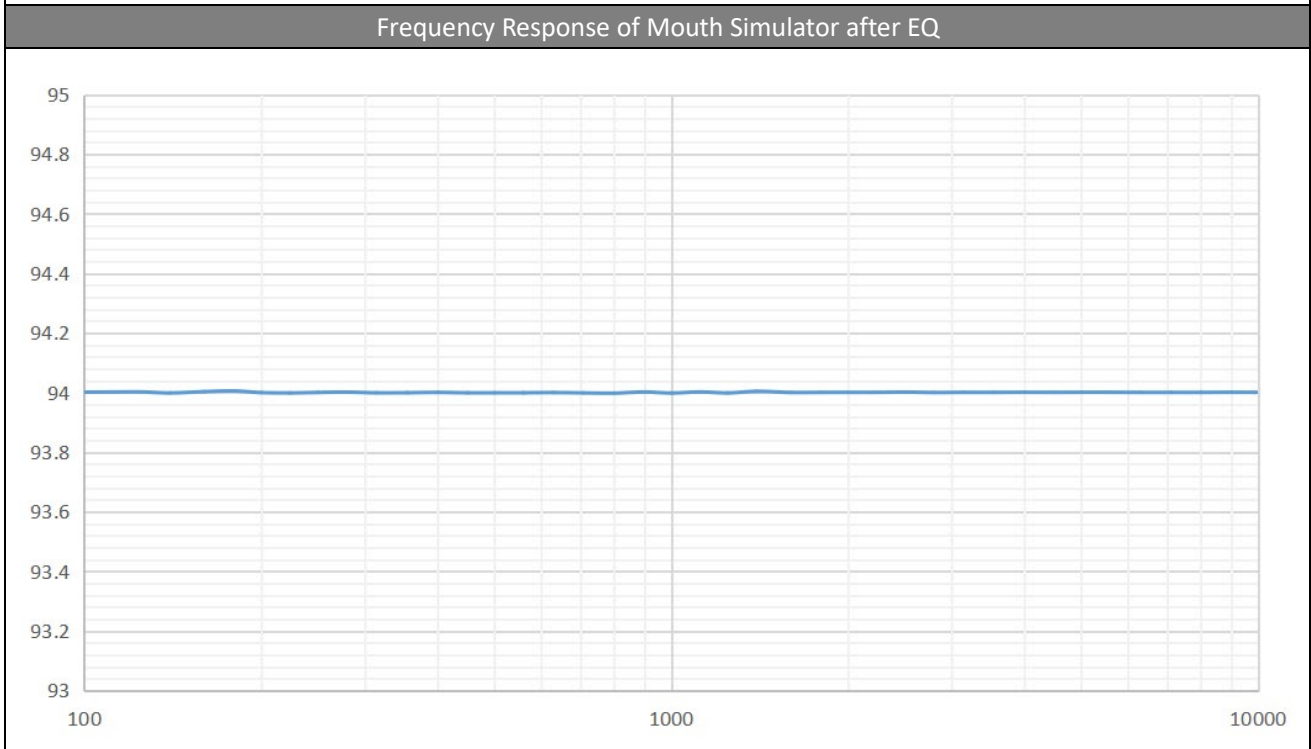
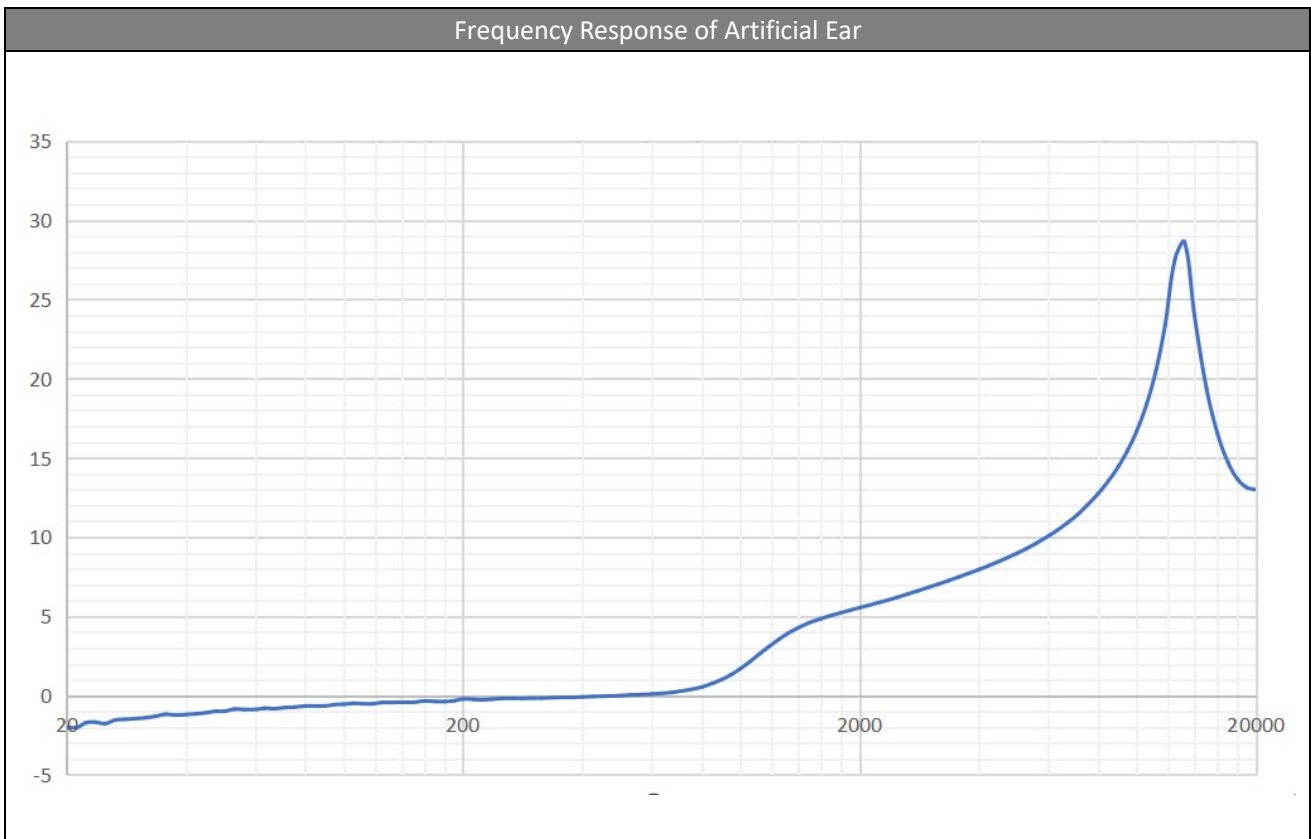
Mouth Simulator

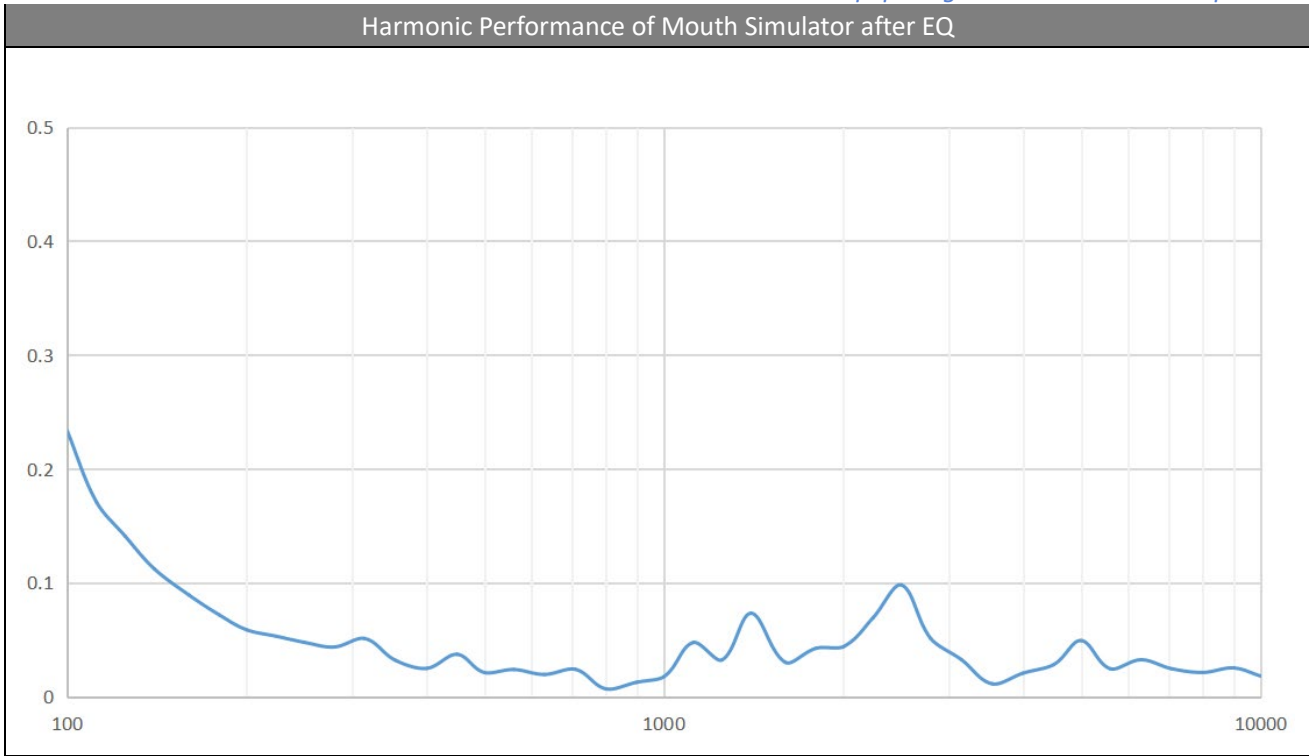
- Compliant with IEC 60318-4:2010 Ed.1.0 (former IEC 60711) international standard and, mouth reference point which is recommended in ITU-T P.51 for sending acoustic signals.
- The standard sound source for acoustic measurements.
- Low distortion, high stability.

Artificial Torso

- Geometry conforms to ITU-T Rec.p.58

Related Typical Curve





Order Information

Main Part	
990027-07	AH 265, Generation III tabletop artificial head, including artificial head cavity, 2 standard artificial ears (ER 86i L - H00, ER 86i R - H00), 1 built-in mouth simulator, calibration bracket (excluding free-field microphone)
990027-06	AHT 265, Generation III tabletop level artificial head+torso model, including artificial head cavity, 2 standard artificial ears (ER 86i L - H00, ER 86i R - H00), 1 built-in mouth simulator, calibration bracket (excluding free-field microphone)
Optional	
990027-08	Upgrade to HS 711, The conventional artificial ear in the artificial head needs to be upgraded to the low-noise artificial ear, and 2 artificial ears need to be upgraded.
910002-01	TT 626, High-precision program-controlled turntable
580035	Pelican waterproof tank, designed for artificial head + torso
990027-10	Artificial Torso AT 235, in accordance with ITU-T Rec.p.58

Version: V 2022.10.9-01

MegaSig reserves the right to change specifications and accessories without notice.



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Equips engineers to create better products

MegaSig Measurement & Control Technology Co., Ltd

Tel: +86.0755-8950.8393

Fax: +86.0755-8950.8392

Sale mail: sale@megasig.com

Support mail: support@megasig.com

Address: Room 1002, Unit 2, Building 1, Hongxing Chuangzhi Plaza,
Guangming District, Shenzhen, China