

AH 262 Desktop Type Simulated Head

Version:1.0_221026_EN



AH 262 is a desktop-type simulated human head that can accurately reproduce the sound transmission and pickup characteristics of an adult's median head, and can meet the acoustic testing needs of various simulation scenarios: including headphone acoustic testing, car smart sitting bin, smart home, laptop, smart glasses, binaural recording, and other acoustic testing applications that require consideration of human head architecture simulation scenarios.

By referring to ITU-T P.58 to restore the human anatomy, AH 262 also provides high simulation design of the ear canal, which is ideal for high precision acoustic measurement of headsets, in-ear earphones, and semi-in-ear earphones, helping to obtain more accurate ANC transfer function.

Forward-looking design:

1. In front of the tragus (about the temporomandibular joint), an optional vibration module can be used to to conduct simulation test for earphones with bone conduction noise reduction.
2. For the position of the bridge of the nose, the vibration module can be selected, and used to conduct simulation test for glasses with bone conduction noise reduction.

Product Parameters

Overall Parameters	
Artificial Ear	
Pressure Field Microphone Frequency Response	20Hz – 10KHz ± 0.5dB
	10KHz – 16kHz ± 1dB
Standard	ITU-T P.57, Type 2 sensor
Frequency Response	Complies with IEC 60318-4:2010
Noise Floor	<31dBA, Conventional configuration
	<16dBA, Low Noise floor configuration
Sensitivity Range	-41.0~-36dB re 1V/Pa
	-27.0~-23.1dB re 1V/Pa
Dynamic Range	33dBA-130dBA
	16dBA-120dBA
Power Requirements	24V IEPE
Mouth Simulator	
Test Range	100Hz – 10KHz
Maximum Power	10W (sine)
Impedance	4Ω
Frequency Response (After Equalization)	Meets 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
Size	
Overall Size (L*W*H)	328*218*325 mm
Weight	3.3Kg

Basic Features

Configuration

- Acoustic characteristics refers to ITU-T P.58.
- Optional vibration module in front of the tragus (about the temporomandibular joint).
- Optional vibration module for nasal bridge position.
- High consistency of headphone picking and placing.

Artificial Ear

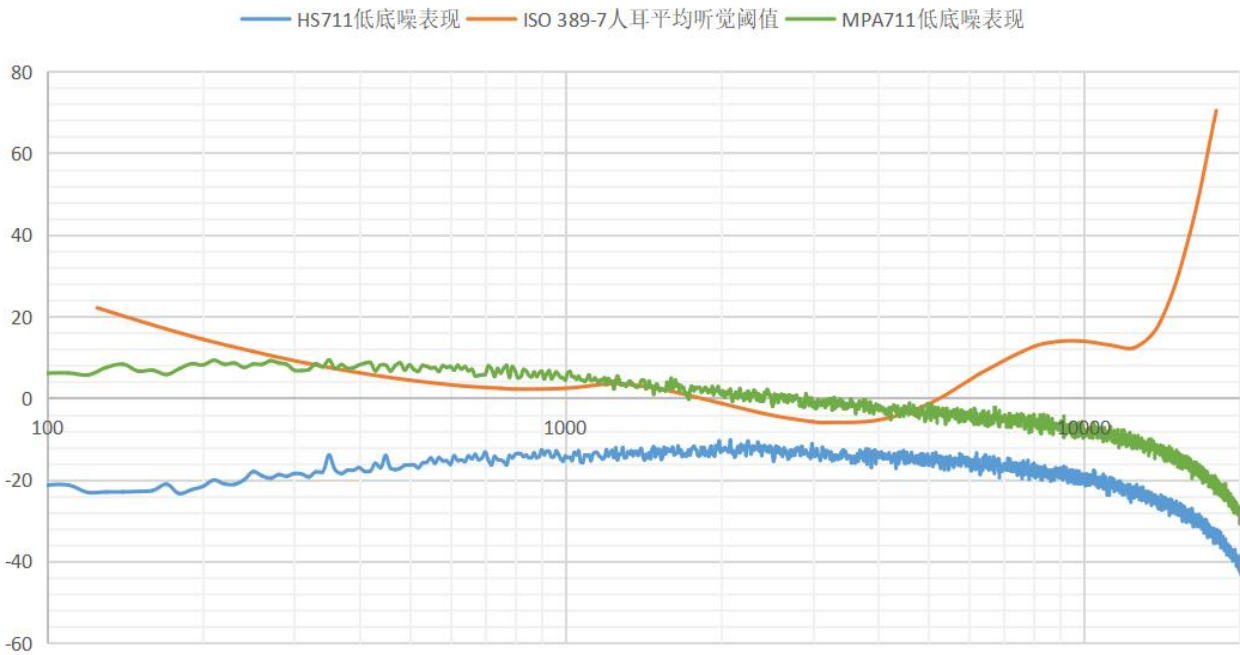
- Artificial ear profile with reference to the anatomical shape of ITU-T P.57 Ear Profile Type 3.3
- Complies with IEC 60318-4:2010 Ed.1.0 (formerly IEC 60711) Electroacoustics - Simulators of the human ear and head, Part 4: Plugged ear simulator for measuring plug-in earphones.
- Compliant with ITU-T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

Mouth Simulator

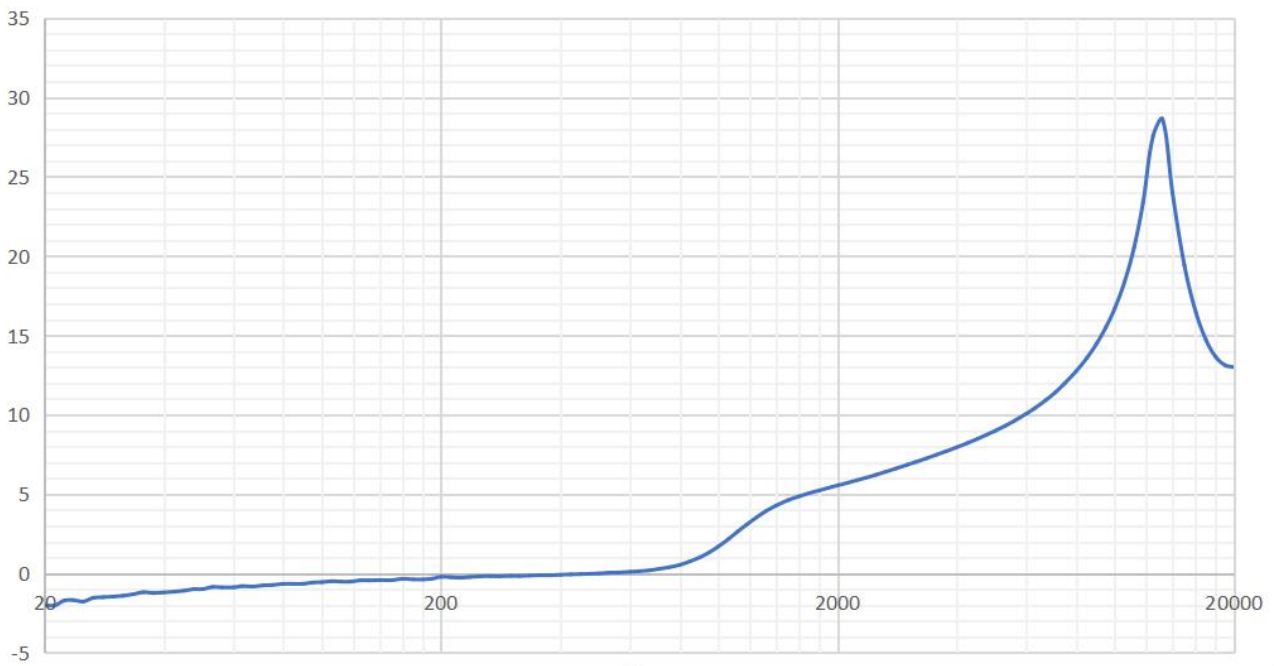
- Complies with IEEE269,661 international standard and ITU-T P.51 recommended "mouth reference point" for sending acoustic signals.
- The Standard sound source for acoustic measurements.
- Low distortion, high stability.

Related Curve Metrics

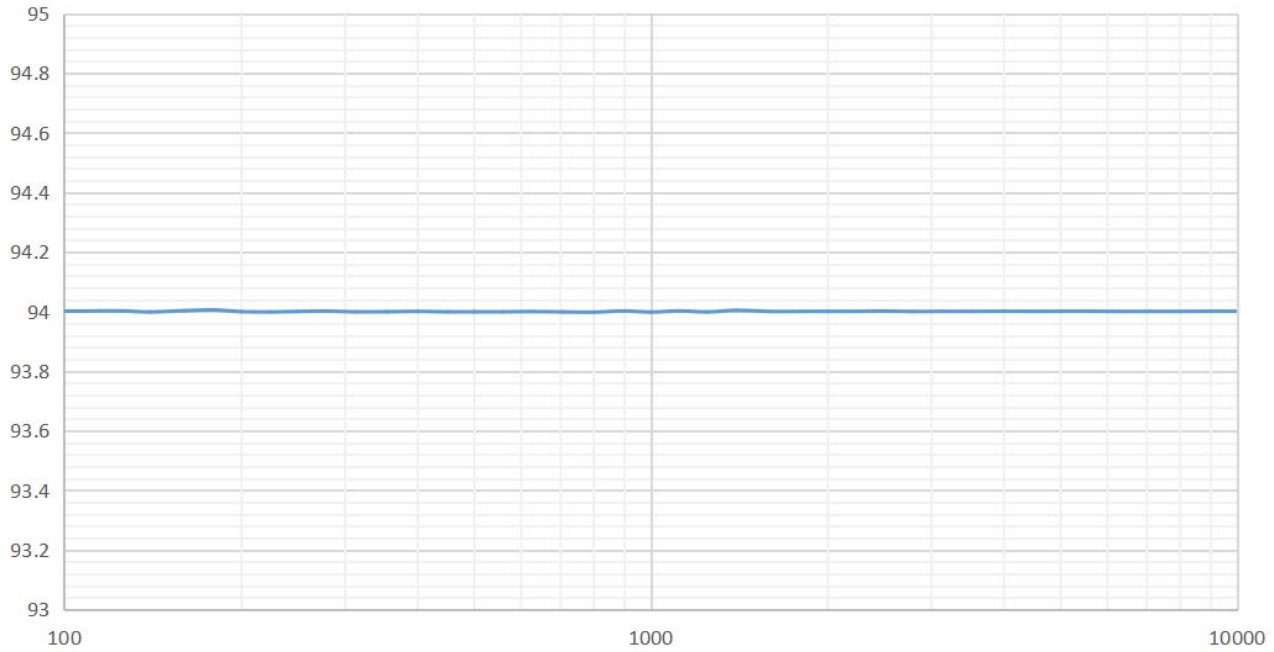
Low noise floor performance of artificial ear & ISO 389-7 human hearing threshold



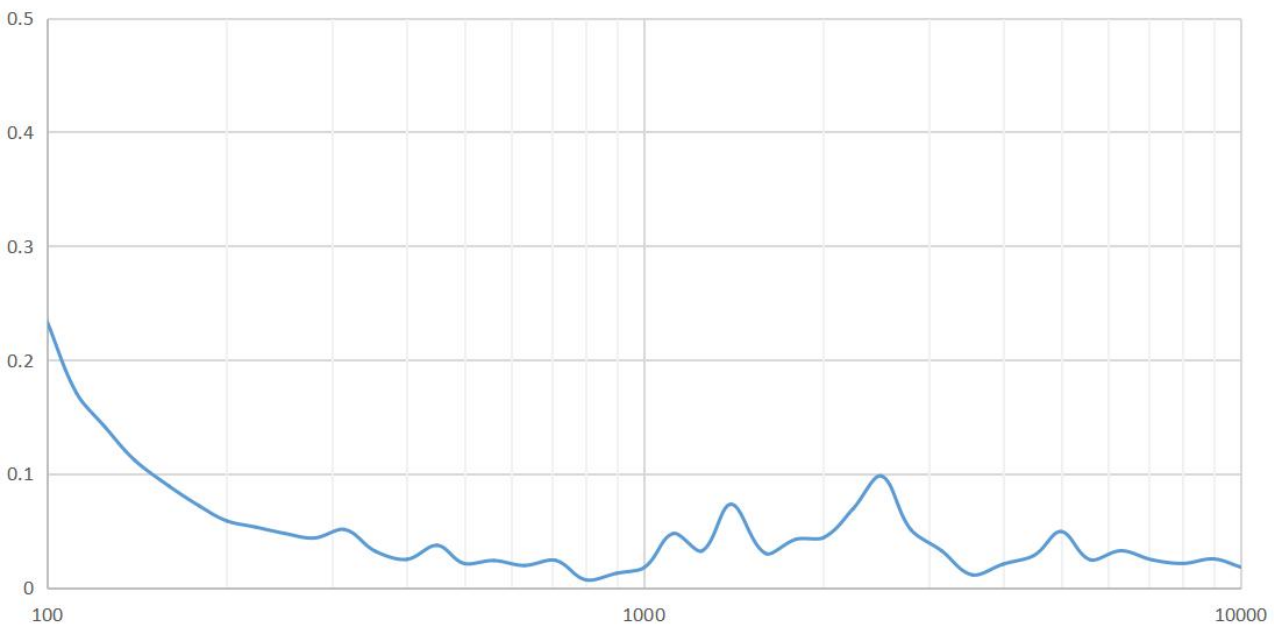
Frequency Response of Artificial Ear



Frequency Response of Artificial Mouth after EQ



Harmonic Performance of Artificial Mouth after EQ



Ordering Information

Main Body

990026-07 AH 262, desktop acoustic head model, including head cavity, 2 standard artificial ears (ER 86L – MH0, ER 86R – MH0), 1 built-in mouth simulator, calibration bracket (free field microphone not included)

Optional	
990026-08	Upgrade to HS 711, human head model conventional artificial ear upgrade low noise artificial ear, need to buy 2 to upgrade
990026-09	BE 001, Nose Bridge Vibration module
990026-10	BE 002, Vibration module in front of tragus (about temporomandibular joint), need to buy 2 pieces
910002-01	TT 626, high-precision programmable turntable
580026	Paragon waterproof case, outer dimensions 54.3*41.4*31.9 cm

Artificial Ear Pinna Options	
990026-11	ER 86L - MH0, II generation silicone simulation ear, left ear, M medium, H0 hardness (the main body configuration default comes with)
990026-12	ER 86R - MH0, II generation silicone artificial ear, right ear, M medium, H0 hardness (main configuration comes with it by default)
990026-13	ER 86L - MH5, II generation silicone artificial ear 2nd generation, left ear, M medium, H5 hardness
990026-14	ER 86R - MH5, II generation silicone artificial ear 2nd generation, right ear, M medium, H5 hardness
990026-15	ER 86L - MH10, II generation silicone artificial ear 2nd generation, left ear, M medium, H10 hardness
990026-16	ER 86R - MH10, II generation silicone artificial ear generation II, right ear, M medium, H10 hardness
990026-17	ER 86L - SH0, II generation silicone artificial ear, left ear, small size, H0 hardness
990026-18	ER 86R - SH0, II generation silicone artificial ear, right ear, small size, H0 hardness
990026-19	ER 86L - SH5, II generation silicone artificial ear, left ear, small size, H5 hardness
990026-20	ER 86R - SH5, II generation silicone artificial ear, right ear, small size, H5 hardness
990026-21	ER 86L - SH10, II generation silicone artificial ear, left ear, small size, H10 hardness
990026-22	ER 86R - SH10, II generation silicone artificial ear, right ear, small size, H10 hardness

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



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