

Head and Torso Simulator HATS100/101



The Head and torso simulator (HATS100) is used to measure and improve the performance and accuracy of telecommunications and intelligent devices, meeting high requirements and standards for speech recognition. The simulator accurately matches the characteristics of the human ear sound field and provides repeatable measurement results to ensure product performance and customer satisfaction. HATS101 is a simplified version of HATS100, which eliminates the mouth simulator and meets the testing needs of some headphone customers.

Features:

The Head and Torso Simulator (HATS100) is designed to measure and enhance the performance and accuracy of telecommunications and smart devices, meeting high speech recognition requirements and standards. The simulator precisely matches the acoustic characteristics of the human ear, delivering repeatable measurement results to ensure product performance and customer satisfaction.

HATS101 is a simplified version of HATS100, which removes the mouth simulator to meet the testing needs of some headphone customers.

Key Features:

- Equipped with a head and a partial torso, used to simulate the acoustic transmission and reflection characteristics of real humans
- Both left and right artificial ears and outer ears are made of soft materials to simulate real human ears
- Calibration is simple and convenient, simply remove the outer ear to calibrate the artificial ear
- Artificial mouth is used to simulate real human mouth pronunciation, with a frequency

of up to 20kHz

- There is a standard microphone fixture on the neck for fixing the standard microphone

Specification:

Artificial Ear	
Frequency Response	20Hz-20kHz
Sensitivity	25mv/Pa
Dynamic Range	153dB (at 250Hz,distort<3%)
External Interface	HATS100/101: Lemo or BNC HATS200/201: BNC
Standards	IEC60711 (IEC 60318-4) 、ITU-T P.57proposal、 ANSI S3.5、SJ/Z9150-1987
Artificial Mouth	
Sound Pressure Curve	100Hz-20kHz
Maximum Output Sound Pressure Level	110dB(at 25mmMRP)
Distortion	at 94dB SPL/25mm: <2%,200Hz-300Hz at 94dB SPL/25mm: <1%,above 300Hz
Frequency Response	100Hz-10kHz after compensation:94dB±1dB
Impedance	40hm

Maximum Average Power	10W
External Interface	HATS100/101: BNC/banana plug*2 HATS200/201: BNC
Standards	ITU-T Rec. P.58、IEC 60318-7 and ANSI S3.36-1985

Model	HATS100/101	HATS200/201
Size (W*D*H)	396mm*205mm*693mm	396mm*205mm*360mm
Weight	15kg	5.8kg

Model Configuration:

Model	HATS100/200	HATS101/201
Ear Simulator	Contain	Contain
Mouth simulator	Contain	Does Not Contain