



Binaural recording which can restore the real noise in the car is the most commonly used tool for NVH Engineer. It is a powerful tool for research and improvement of sound quality. Binaural recordings usually require expensive artificial head, and it's not easy to use. The biggest problem is the test cannot carry out on the driver's seat that most of engineer and tester focus on. BinauralMic is popular in recent years recording equipment. The cost is very low compare to the artificial head and easy to use.



FEATURES

- MPA416 microphone with phase matching, TEDS is optional
- Calibration method is same to measurement microphone, calibrator adapter is attached.
- Sealed monitoring level headphone (Germany Ultrason top professional monitoring headphone), can effectively isolate the ambient noise
- ICCP powered microphone with BNC connector, connect to standard data acquisition equipment
- headphone and microphone cable are independent, easy to change
- Suitable for indoor and outdoor noise measurement

APPLICATIONS

- Record sound for NVH, Analysis of noise
- Two channel recording and playback
- Cabin noise measurements
- Simulation of vehicles on the road

SPECIFICATIONS

BinauralMic PRO750	
Microphone	
Microphone	MPA416 (Prepolarized, need ICCP power supply)
Microphone Diameter	1/4"
Optimized	Free field
Frequency Range (Hz)	20 ~ 20 k
Open-Circuit Sensitivity (mV/Pa) (±2dB)	50
Output Impedance (Ω)	<110
Dynamic Range (dBA)	29 ~ 127
Inherent Noise (dBA)	<29
Operating Temperature (°C)	-10 ~ 50
Operating Humidity (%RH)	0 ~ 95
Temperature Coefficient (dB/°C)	15°C ~ 35°C: <±0.3 dB 0°C ~ 40°C: <±1.5dB -10°C ~ 50°C: <±3.0dB at 1kHz, reference temperature 23°C
Humidity Influence	20% ~ 90%RH, <±0.8 dB at 1kHz, reference temperature 23°C, humidity 50%RH
Pressure Coefficient (250 Hz) (dB/kPa)	-0.06
Connector	LEMO - 3 Pin, Lemo-BNC cable attached
TEDS	Optional
Headphone	
Headphone	Ultrason PRO 750
Frequency Range (Hz)	8 ~ 35 k
Impedance (Ω)	40
Sound Pressure Level (dB)	94
Driver	40mm titanium-plated
Weight (g)	364



VSS210 is a mid-frequency volume source. It is ideal acoustical source for reciprocity measurements and TPA analysis. VSS210 uses a power speaker driver to deliver up to 125 dB over the frequency range from 200 to 10,000 Hz. Two phase matched MPA416 microphones is installed at 2 cm apart in the outlet. The microphones provide the sound pressure and phase information for calculating the volume velocity radiated from the outlet.

VSS058 is a low-frequency volume source for analyzing the P/F, P/Q, and TPA. It can also be used for such accurate acoustics electrostatic testing as sound absorption, transmission loss, and SAE.



SPECIFICATIONS

Mid-Frequency Volume Source VSS210 and Low-Frequency Volume Source VSS058		
Standards	NONE	NONE
Nominal Impedance (Ω)	8	8
Power Handling	100 W continuous	200 W continuous
Frequency Range (Hz)	200 ~ 10 k	50 ~ 800
Sound Power Level	120 dB Pink Noise	98dB, 1m from the export
Connector	Audio Connector	SPEAKON Audio Connector
Loudspeaker Unit (W)	Compassion Diver 100	12PR300
Size (mm)	D30 x L300	W380 x H480 x D340
Weight (kg)	5	15.8
Carrying Case Dimensions (mm)	W420 x H420 x D320	W600 x H650 x D450