BinauralMic PRO 750

Features:

- MPA416 microphone with phase matching, TEDS is option
- Calibration method is same to measurement microphone, calibrator adapter is attached.
- Sealed monitoring level headphone (Germany Ultrasone 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

Application:

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

Introduction

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.

Specifications

Microphone

Microphone	MPA416 (Prepolarized, need ICCP power supply)
Microphone Diameter	1/4"
Optimized	Free field
Frequency Range (Hz)	20 ~ 20k
Open-Circuit Sensitivity (mV/Pa) (±2dB)	50
Output Impedance (Ω)	＜110
Dynamic Range (dBA)	29 ~ 127
Inherent Noise (dBA)	＜29
Operating Temperature (℃)	-10 ~ 50
Operating Humidity (%RH)	0 ~ 95
Temperature Coefficient (dB/℃)	15℃ ~ 35℃：＜±0.3 dB 0℃ ~ 40℃：＜±1.5dB

	-10℃ ~ 50℃：＜±3.0dB at 1kHz, reference temperature 23℃
Pressure Coefficient (250 Hz) (dB/kPa)	-0.06
Influence of Humidity	20% ~ 90%RH, ＜±0.8 dB with 1kHz, reference temperature 23℃, humidity 50%RH
Connector	LEMO - 3 Pin, Lemo-BNC cable attached
TEDS	Optional

Headphone

Headphone	Ultrasone PRO 750
Frequency Range (Hz)	8 ~ 35k
Impedance	40Ω
Sound Pressure Level	94 dB
Driver	40mm titanium-plated
Weight	364g

Recording and playback

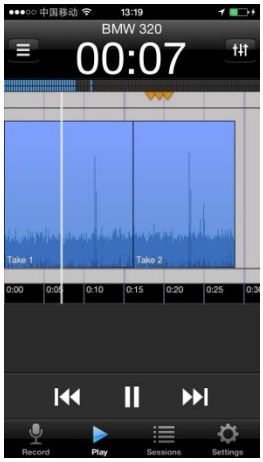
Binaural recording usually need a complex hardware and software. BSWA use the MC3322 for data acquisition hardware, it can connected to PC, iPhone, iPad, Galaxy S5 and other mobile device. The data can be directly records by mobile device or PC in wav format and the professional data acquisition hardware guarantee the quality of the recording. The real time monitoring also can be support when the recording is ongoing.

Data sharing

The test driver is usually not professional NVH Engineer, which need professional guidance and feedback when face the issue. The traditional method is taking back the recording data and analyzes it in laboratory. This method is obviously cannot meet the needs.

BinauralMic PRO 750 using iPhone recording app to share the data to weixin, Facebook, Twitter, Sound Cloud, FTP and email. NVH Engineer can heard the voice of a thousand miles away and analyzes it in the office.

Recording



Playback

Share

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