

ABSTRACT

Disclosed is an open headphone, comprising a front cover, a loudspeaker unit and a rear housing. A front headphone chamber is formed between the front cover and the loudspeaker unit. A rear headphone chamber is formed between the loudspeaker unit and the rear housing. The front cover is provided with several sound output holes. The loudspeaker unit has a middle loudspeaker hole which is through in a front-rear direction. The rear housing is also provided with a sound guide tube. The rear end of the sound guide tube is in communication with the external space of the headphone. The front end of the sound guide tube is inserted in the middle loudspeaker hole and at a distance from a vibrating diaphragm, and the distance is larger than a maximum vibration displacement of the vibrating diaphragm. The open headphone of the present disclosure has high-quality bass performance, and other advantages, such as that the sound field is open and natural, that the user is not easy to become fatigue after long-term use, and that it will not cause damage to people's hearing. By inserting the front end of the sound guide tube in the middle loudspeaker hole, which is able to reduce the volume of the rear headphone chamber, so as to make the whole headphone small and easy to carry.

Fig. 2