

BONE-CONDUCTION HEADPHONES

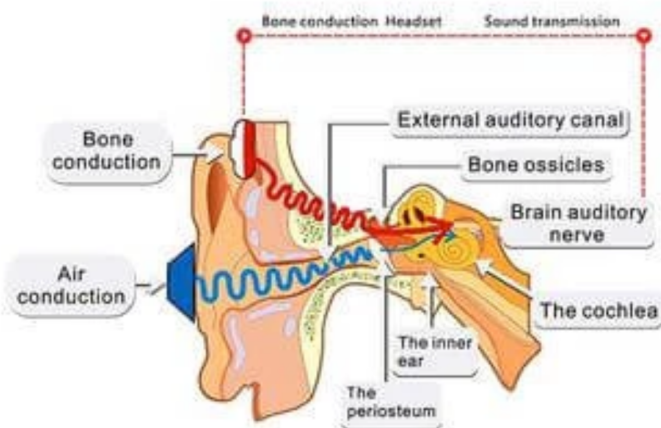


WHAT IS A BONE-CONDUCTION HEADPHONE?

It is a type of specialized wireless headphones that rest directly on the listeners' cheekbones. Unlike traditional headphones that seal around the whole ear canal, they are small in size and only rest on top of the cheekbones. Thus, they allow listeners to easily catch the surrounding sounds without being detracted by the music, reducing the chance of any potential hazards. Most of the designs are preferred by sports enthusiasts since they are lightweight and waterproof.

HOW DOES IT WORK?

Sounds are often conducted through the air. Traditionally, sound sources will travel from outer ear, down to the middle ear and to the eardrum that vibrates to be passed on to the cochlea where it will be processed and sent to our brain. However, in this bond-conduction system, sound doesn't depend on air but the bones. Sound wave is conducted on a much shorter path from the outer ear bones directly into the inner ear.



WHY IS IT IMPORTANT ?

This product has become increasingly popular in both music industry and hearing-aid industry. Those with hearing issues are also benefiting from this product since the sound transmission doesn't solely depend on the eardrum vibration. Furthermore, they claim equivalent sound quality while also allowing listeners to process ambient noises. Many outdoor sports enthusiasts claim this headphone to be very safe and efficient. It is also essential in underwater sports. It utilizes bone conduction coupled with ultrasound at a range of 32 kHz to enable wireless communication as long as you are within visual range.

