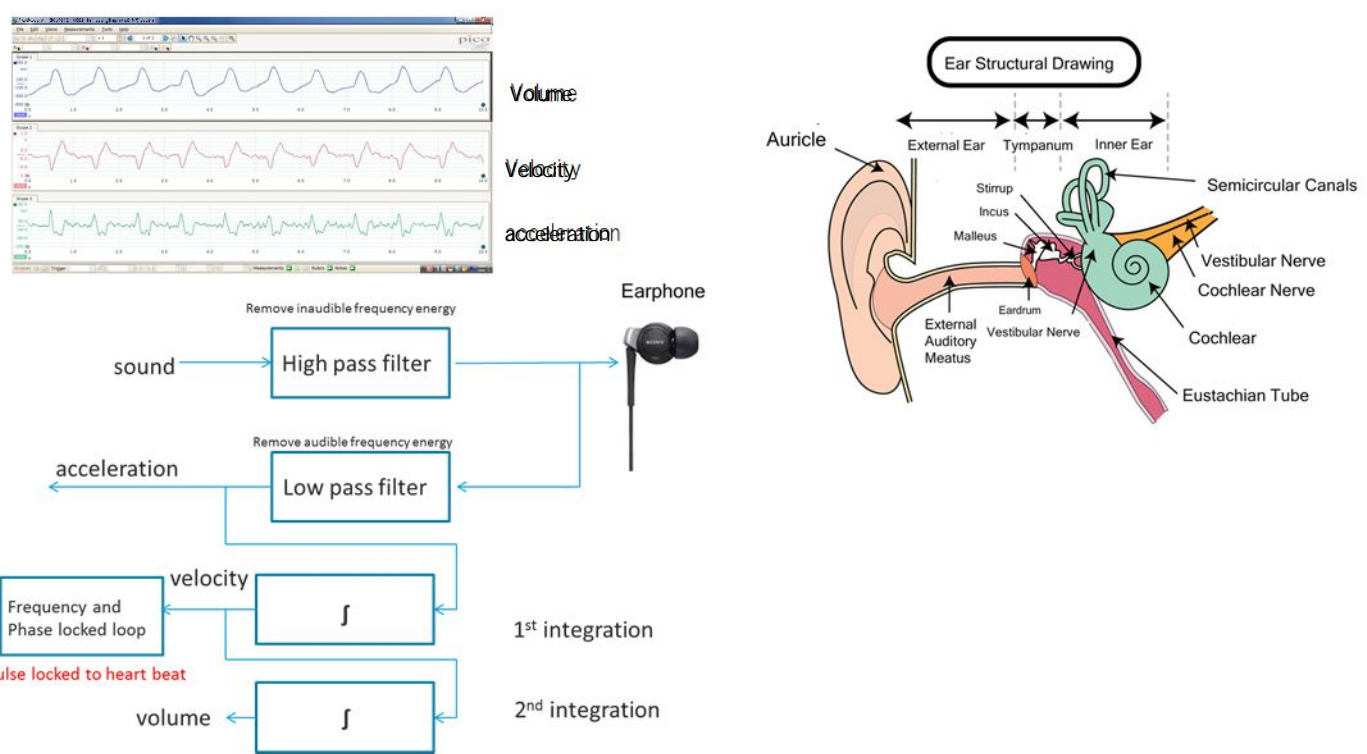


Vital signal Detection with conventional earphone(1)

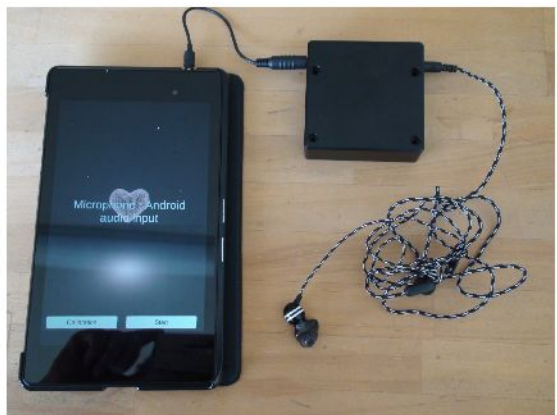
1. Possible to detect the heart beat etc , while you are listening to the music



The principle is the frequency division multiplex. With it, it becomes possible to use an earphone as speaker in audible frequency band and as a microphone in inaudible lower frequency band.



2. With adapter, it becomes possible to display the vital signal on your smartphone or PC.



Detected and processed vital signal from earphone is sent to smartphone or PC through mic terminal of earphone jack. It's possible to install all in PC or smartphone if we can rework inside . The adapter with display software written in Unity environment is able to apply to different types of OS on smartphone or PC . We are designing the LSI inside adapter to make it much smaller.

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