CLAIMS

1. An audio device comprising:

a storage module configured to store a control function, the control function being associated with a head-related structure of a user,

wherein the storage module is further configured to store a plurality of programming instructions and user settings from a database, the database comprises a plurality of virtualized ear pinnae configurations;

a processor for receiving audio signals being descriptive of audio sounds and spatial positions corresponding with the audio sounds; and

a transducer for transducing control signals into the audio sounds for delivery to the user when the audio device is in use thereby;

wherein the processor is further configured to execute the plurality of programming instructions to cause communication of signals between the audio device, a computing system and a computing cloud, both of which the audio device may be coupled to, during the running of various functions as programmed in the programming instructions.

2. The audio device of claim 1, wherein the audio device further comprises an audio input interface to input the user settings.

3. The audio device of claim 1, wherein the storage module is a built-in flash memory or a removable memory disk.

4. The audio device of claim 1, wherein the audio device is a HRTF-based headset device.

5. The audio device of claim 1, wherein audio output transmitted by the transducer of the audio device comprises audio output based on the user settings of the device.

6. The device of claim 1, wherein the processor processes a source material of the audio output transmitted by the transducer, based on the user settings of the audio device.

7. The audio device of claim 4~~1~~, wherein the user settings further comprise at least one of:

a connection of a HRTF-based headset device's jack plug to a computing system's jack socket;

a wireless coupling of the HRTF-based headset device with the computing system; detection of sound input through a transducer of the HRTF-based device;

volume adjustment via volume controls coupled to the HRTF-based headset device;

sound channel adjustment and selection via sound channel adjustment/selection controls coupled to the HRTF-based headset device;

volume adjustment of each sound channel via sound channel volume controls attached to the HRTF-based headset device;

selection of at least one of the plurality of virtualized ear pinnae configurations stored in the database for calibration of the HRTF-based headset device; and

inputing of user settings through an interface for calibration of the HRTF-based headset device.

8. The audio device of claim 1, wherein user settings are calibrated in relation at least one of a shape, size and pinnae of each of the user's ears.

9. The audio device of claim 7, wherein the plurality of virtualized ear pinnae configurations are indicative of at least a majority of the human population.

10. The audio device of claim 7, further comprising the HRTF-based headset device being coupled to the database of virtualized ear pinnae configurations stored on the storage module of the HRTF-based headset device, or to a computing system's storage module storing a database of virtualized ear pinnae configurations or a computing cloud storing a database of virtualized ear pinnae configurations.