



**Thank you for purchasing the Abyss Headphone System.** We know you will enjoy music conveyed through them for many years to come. For maximum enjoyment please read these basic usage suggestions.

### **Things to keep in mind...**

In order to reproduce music as a natural wave with minimal distortion the speaker diaphragm within these headphones is very light and thin. It is sensitive to very high ambient temperatures. Keep these headphones in temperatures comfortable to you. High temperatures such as hot Summer heat in direct sunlight may affect their operation.

These headphones contain a very powerful magnet that will attract metals. Keep them away from any tools or machinery, or drilling or sanding where metal particles may form. When not in use they should be stored indoors in a safe place either on their stand or in their leather bag.

The slots inside the ear pads where sound emanates from are open to the diaphragm inside and protected by a delicate screen. Do not poke or place anything in these slots as permanent damage may result.

There are no user serviceable parts inside of your headphones and really not much to see. It is **highly recommended** not to attempt to open them. They are factory assembled using precision torque screwdrivers and tuned for best sound quality.

### **Listening suggestions...**

Your headphones have a wide range of adjustability so understanding all of the possibilities will allow you to best set them to your personal liking.

The ear pads are magnetically held to the front slotted baffle. Note there are many holes on the back side of each ear pad's magnetic ring that align with and fit over the silver screw heads on the front baffle of the headphones, and allow you to rotate each curved pad to best fit the shape of your head.

Normally the best fit will be with the thick padded portion somewhere between 3 o'clock and 6 o'clock when looking at each ear pad face to face. Hold each pad with one hand on the outer edges, center the pad on the front slotted baffle while aligning the holes with the silver screws until the pad magnetically grabs on. Experiment with positioning by gently pulling the pad off the baffle plate, turning to the next set of holes and repeating above for best fit. Normally you will want to place both ear pads in the same position. Note the sewn leather line seen on the pads serves as a point of reference.

Your headphones come complete with a custom designed high performance cable set by JPS Labs tuned for Abyss. It is recommended to only use the cables supplied for proper tonal balance and clarity. To connect your cables, please note the 3 pin mini XLR jack on the bottom of each left and right side have a slot that the cable connector must align to in order to push in.

**Do not force** the connector into the plug. If it does not go in with minimal effort then the cable connector is not aligned properly with the pins of the jack. The push button on the mini XLR connectors will face out of each side of the headphones when properly aligned. The red ring connects to the right side of the headphone.

The structural aluminum headband has one large slotted screw on the top that is factory torqued and locked in place. This part is designed to be snug, yet allows adjustment in or out, or rotation to a limited angle.

To adjust the width to fit your head, hold the curved portions of the metal headband with two hands, one on each left and right sides, and gently pull out or push in until comfortable. During listening you may wish to readjust and experiment, keeping in mind that they do not need to be tight to your head for best sound. A tighter fit to the sides of your head will create a more focused soundstage, while loose will bring out more space and air to the music. Moving them front to back on your ears also tunes various instruments and recordings. The way you listen is a personal preference so do experiment with their position on your head and ears for maximum enjoyment.

The leather headband is designed to self adjust to support the weight of these headphones on the top of your head. It's tension is preset and will balance the headphone position on top of your head. Simply move the headphones up or down on your head for best comfort.

While some are perfectly content with their ears in the center of the ear pads, you may wish to experiment with the position of your ears inside the pads. Piano, horns, drums, and various other instruments present themselves from slightly different acoustic perspectives as your ears move inside the ear pads. Moving the headphones slightly forward or backwards, up or down, on your head will alter the focus of each instrument within the soundstage.

Your Abyss Headphones are designed for maximum subtle detail retrieval and smooth natural sound, similar in performance to a very high-end two channel audio system. In as such, the quality of the equipment, cabling, and source material will dramatically affect results. JPS Labs interconnect and AC cables are recommended for best results.

### **Music and Content...**

Abyss Headphones are designed for the highest resolution source material. Available detail and tonal balance are averaged over decades of listening experience. Contact your Abyss dealer for advice on fine-tuning your system for maximum enjoyment.

### **Specifications**

Frequency Response: 5 Hz to 28 KHz

Impedance: 46 ohms (non-reactive)

Sensitivity: 85 dB

Distortion: Less than 1%; Less than 0.2% through ears most sensitive range

Recommended power range: 1 to 4 watts @ ~46 ohms

Weight: 660 grams (1.5 lbs)