

# APHEX<sup>®</sup>

## HEADPOD 4

HIGH PERFORMANCE  
HEADPHONE AMPLIFIER





## OWNER'S MANUAL



a DWV ENTERTAINMENT company

## SAFETY DECLARATIONS

	<b>WARNING</b> SHOCK HAZARD DO NOT OPEN AVIS: RISQUE DE CHOC ELECTRIQUE NE PAS OUVIR		TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE. DO NOT REMOVE THE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL ONLY. ATTENTION, AFIN DE VITER DES CHOCES ELECTRIQUES. N'ENLEVEZ PAS LE COUVERCLE. IL N'Y A AUCUNE PIECES D'ENTRETIEN A L'INTERIEUR. REFEZEZ LES REPARATIONS A UNE PERSONNE QUALIFEE.
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**WARNING:** Do not place objects containing liquid on this unit as it is not designed to protect against spillage. Do not expose this unit to dripping or splashing of liquids as the unit is not designed to protect against these occurrences.

**WARNING:** The HeadPod 4 has been tested and meets the FCC, CE and European Union rules, regulations, and guidelines for use. Do not attempt to modify or change the HeadPod 4, as this could void the regulatory compliance, which would place you at risk of losing your authority to operate the HeadPod 4.

**WARNING:** Do not place objects on top of this unit.



## SAFETY DECLARATIONS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.



## INTRODUCTION

Providing musicians with proper headphone mixes at proper levels is the first step in obtaining a quality performance. If the musician cannot hear properly, it is likely that their timing and pitch will be off. Vocalists often sing too loud simply because they cannot hear themselves properly. This means the singer's voice will suffer and they will not be able to sing for long periods. When a musician can hear themselves properly along with the other tracks they become confident and relaxed which leads to a great performance. That's how important a good headphone amplifier is.

The HeadPod 4 contains four individual stereo power amps. This means that plugging in multiple headphones with different impedance values will not change the quality or volume of the sound. Each output is completely independent.

The headroom of the HeadPod 4 makes high volume levels with low distortion possible. Ear protection is your personal responsibility at all times. Always start with a low volume and adjust it for comfort. Please be sure to turn down the Volume before plugging in your headphones or playing any audio source.

The HeadPod 4 provides analog and digital inputs allowing it to be used with analog mixers, digital mixers and DAWs. All inputs can remain connected with a top panel rotary switch selecting the active one.



## INPUT SELECTION

The HeadPod 4 Input Selection knob on the top of the unit allows you to select one of the three input sources.

**Analog 1:** Balanced left and right inputs. These use 1/4" TRS connectors. Connect the balanced main outputs of your mixer or audio interface to these inputs on the HeadPod 4.

**Analog 2:** Unbalanced stereo input. This uses one 1/4", TRS connector. Connect one 1/4" TRS cable from the headphone output of your audio interface or mixer to this input on the HeadPod 4. Even though the signal is still going through your original headphone amp, there will be no load placed on it by the HeadPod 4. The headphone load will be placed on the HeadPod 4.

**Digital:** S/PDIF coaxial digital input. The HeadPod 4 features a much higher quality digital to analog converter than those found in audio interfaces and digital mixers. By assigning the headphone mix to the S/PDIF digital output of your device and plugging in to the S/PDIF input of the HeadPod 4, you will experience the extremely high quality conversion and headphone amplification. The LED illuminates when a valid S/PDIF signal is present.



If you experience level differences between the three sources, the output levels of the sources will need to be adjusted.

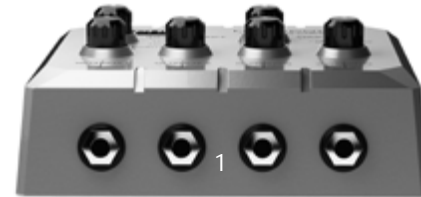
## TOP PANEL

1. Input select knob: Selects the input to be used for monitoring.
2. Master Volume Knob: This is the input level control. Start with this knob at the middle setting of 12 O'clock. If you turn this knob up too high, you may hear distortion.
3. Headphone Volume Knobs: These knobs control the level of the individual headphone outputs. Turn these knobs all the way down before you plug headphones in.



## FRONT PANEL

1. Headphone output jacks: Four 1/4" TRS headphone jacks are provided. One for each headphone output.



## REAR PANEL

1. Analog Input: Balanced 1/4" TRS analog left and right inputs. Use the left input for a mono, balanced source.
2. Analog Input: Unbalanced, stereo, analog 1/4" TRS input. Connect the headphone output of your source here.
3. Digital Input: Coaxial, S/PDIF digital input. This input will accept sample rates, 44.1kHz, 48kHz, 88.2kHz and 96kHz, +/- 3%. It will accept 16 and 24 bit resolution.
4. DC Power Supply Input: Only use the included power supply with the HeadPod 4. 12V DC, 1000mA, positive tip. The HeadPod 4 is not compatible with a HeadPod 454 power supply.
5. Power On/Off switch.



## LIMITED WARRANTY

### PERIOD

One year from date of original purchase.

### SCOPE

All defects in materials and workmanship.

### THE FOLLOWING ARE NOT PROTECTED

Voltage conversions, units on which the serial number has been defaced, modified or removed. Damage or deterioration resulting from: Installation and/or removal of the unit; Accident, misuse, neglect, unauthorized product modification; Failure to follow instructions in the Owner's Manual, User Guide or other official Apex documentation; Repair or attempted repair by anyone not authorized by Apex; Shipping damage - claims must be presented to the shipper.

### WHO IS PROTECTED

This warranty will be enforceable by the original purchaser and by any subsequent owner during the warranty period, so long as a copy of the original Bill of Sale is submitted whenever warranty service is required.

### WHAT APHEX WILL PAY FOR

All labor and material expenses for covered items. Apex will pay all return shipping charges if the repairs are covered by the warranty.

### LIMITATION OF WARRANTY

No warranty is made, either expressed or implied, as to the merchantability and fitness for any particular purpose. Any and all warranties are limited to the duration of the warrant stated above.

### EXCLUSION OF CERTAIN DAMAGES

Apex liability for any defective unit is limited to the repair or replacement of said unit, out our option, and shall not include damages of any kind, whether incidental, consequential, or otherwise. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific rights which vary from state to state.

## SPECIFICATIONS

HeadPod 4	
Input Z	Bal: 20K $\Omega$ ; Unbal: 10K $\Omega$
Output Z	10 $\Omega$
Maximum Input Level	Bal & Unbal: +24dBu
Frequency Response	10Hz - 120kHz +/- 1dB
SNR (Typical)	100dB
Crosstalk, dB:	-80 @ 1KHz, -70 @ 10KHz
Maximum Gain	35dB
THD+N, 1KHz	<.001%, 100mW into 25 $\Omega$
SMPTE IMD	<.001%, 100mW into 25 $\Omega$
Weight	16oz. (0.45kg)
Dimensions	5.5W x 1.9H x 4.5D in. 13.8W x 4.8H x 11.4D cm.
External Power	12 VDC, 1000mA 5.5mm x 2.1mm Power Jack Positive Tip

Apex reserves the right to continually improve our products.  
All specifications are subject to change without notice.

## SERVICE INFORMATION

If it becomes necessary to return this unit for repair, you must first contact Apex Systems, Ltd. for a Return Authorization (RMA number), which will need to be included with your shipment for proper identification. If available, repack this unit in its original carton and packing material. Otherwise, pack the equipment in a strong carton containing at least 2 inches of padding on all sides. Be sure the unit cannot shift around inside the carton. Include a letter explaining the symptoms and/or defect(s). Be sure to reference the RMA number in your letter and mark the RMA number on the outside of the carton. If you believe the problem should be covered under the terms of the warranty, you must also include proof of purchase. Insure your shipment and send it to:

### APHEX

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