

# Klipsch® HERITAGE *Headphones*

## HEADPHONE AMPLIFIER

### VINTAGE NOSTALGIA

Encased in formed aluminum with genuine walnut veneer, the Heritage Headphone Amplifier exudes quality before ever being plugged in. All switches, knobs, and controls are weighted and anodized aluminum for great feel and tactile response. All analog switches operate through relays for the cleanest signal while maintaining vintage feel.

### AUDIOPHILE DIGITAL TO ANALOG CONVERTER

Driven at the core by a high-resolution ES90128K2M ESS Sabre32 Reference digital-to-analog (DAC) converter capable of 192kHz/24-bit sample rates, the Heritage Headphone Amplifier is the ideal 2-channel audiophile-grade DAC. Featuring ESS 32-bit HyperStream® DAC architecture and Time Domain Jitter Eliminator, the amplifier delivers a clear sound and minimal distortion. Built for the most discerning ears, the Heritage Headphone Amplifier doubles as an ideal processor of any digital source, whether the output is a pair of headphones or RCA line-out.

### ASYNCHRONOUS USB INTERFACE

The Heritage Headphone Amplifier uses the XMOS USB audio receiver platform, widely regarded as one of the best solutions for transferring audio from USB sources. This allows the amplifier to lock the audio stream to its internal clock, keeping the audio stream as clean as possible. ASIO support is included for audio software that supports it. iOS (with Lightning™ to USB Camera Adapter, sold separately) and Android (5.0 Lollipop and newer) devices can also connect directly to the USB interface for lossless playback of content, bypassing your device's digital-to-analog converter.

### DUAL AMPLIFIERS FOR BALANCED OUTPUT

Complete with dual Class-AB TI TPA6120A2 amplifiers, the signal path minimizes crosstalk while increasing total system output. Built to have the best signal to noise ratio possible, the chosen amplifiers had to be as quiet as the reference DAC. Plug in any headphone with an XLR-4 balanced cable (not included) and you have a true audiophile solution. Flip the gain switch to "Hi-Z" for a +10 dB boost in output to drive even the most demanding headphones.

### VERSATILE INPUTS AND OUTPUTS

The Heritage Headphone Amplifier is intended to work as a digital analog processor for USB audio, optical, and coaxial inputs. Beyond its primary use as a balanced headphone amplifier, it also works as a DAC for powered speakers, making it the ideal desktop companion. Toggle the output switch to "Line" and the amplifier will mute the headphone output and enable the line-out on the back of the amplifier. Flip the switch on the back of the unit from "Fixed" to "Variable" and you now have gain control through the volume knob on the front.

### LOW DISTORTION

The Heritage Headphone Amplifier is designed to maintain the lowest distortion in its class. To realize the full performance of the Sabre DAC, the signal path uses relays and analog gain control. We coupled those elements with a highly customized circuit board layout and reference components. This amplifier will enhance the quality of any headphone or audio system plugged into it.

### SAMPLE RATE NOTIFICATION

To ensure that all the settings on your input source are correct, the Heritage Headphone Amplifier displays the sample rate being processed of digital sources. The front-panel LEDs will illuminate in white for PCM sources and blue for DSD files.

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### SPECIFICATIONS

AMPLIFIER TYPE	Dual Class-AB (TI TPA6120A2)	
DIGITAL ANALOG CONVERTER	ESS Sabre32 ES9018K2M	
USB	XMOS Asynchronous Audio Interface	
AMPLIFIER POWER	<b>Balanced XLR-4</b> 525mW into 16Ω 1440mW into 32Ω 1050mW into 150Ω 540mW into 300Ω 270mW into 600Ω	<b>Unbalanced 1/4"</b> 810mW into 16Ω 940mW into 32Ω 270mW into 150Ω 135mW into 300Ω 68mW into 600Ω
FREQUENCY RESPONSE	<b>Balanced XLR-4</b> 20 Hz - 40 kHz, +0 / -0.1 dB 9 Hz - 90 kHz, +0 / -3.0 dB	<b>Unbalanced 1/4"</b> 20 Hz - 40 kHz, +0 / -0.1 dB 9 Hz - 90 kHz, +0 / -3.0 dB
SIGNAL TO NOISE RATIO	<b>Balanced XLR-4</b> 118 dB A-Weighted	<b>Unbalanced 1/4"</b> 118 dB A-Weighted
THD+N	<b>Balanced XLR-4</b> < 0.009%, 20 Hz - 20 kHz	<b>Unbalanced 1/4"</b> < 0.009%, 20 Hz - 20 kHz
CROSSTALK	<b>Balanced XLR-4</b> < -75 dB, 20 Hz - 20 kHz	<b>Unbalanced 1/4"</b> < -60 dB, 20 Hz - 20 kHz
GAIN	Lo-Z 0 dB, Hi-Z 10 dB	
SAMPLE RATE SUPPORT	16 - 24 Bit   44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz	
DSD SUPPORT	2.8M, 5.6M, 11.2M	
INPUTS	<ul style="list-style-type: none"> <li>• USB Audio (Type B Connection)</li> <li>• Optical (TOSLINK)</li> <li>• Coaxial</li> <li>• RCA Analog Audio</li> </ul>	
OUTPUTS	<ul style="list-style-type: none"> <li>• Balanced XLR-4</li> <li>• Unbalanced 1/4"</li> <li>• RCA Analog Audio (Fixed/Variable)</li> </ul>	
PRODUCT DIMENSIONS	2.28" (58mm) H x 7.87" (200mm) W x 5.7" (145mm) D	
BOX DIMENSIONS	4.52" (115mm) H x 11.73 (298mm) W x 6.45" (164mm) D	
ENCLOSURE MATERIAL	Top and Bottom: MDF with Walnut Veneer Case: Anodized Aluminum Extrusion	
VOLTAGE	100-240 VAC, 50/60 Hz	
PRODUCT WEIGHT	1.7 lbs (.77 kg)	
BOXED WEIGHT	2.75 lbs (1.25 kg)	
INCLUDED ACCESSORIES	<ul style="list-style-type: none"> <li>• 2.0m USB Type-B Cable</li> <li>• Universal Power Supply</li> <li>• US, EU, UK, and AU Plugs</li> </ul>	
BUILT FROM	2017	

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