



## HAUC, HATT, HATTxl and HAUCxl HEADPHONE AMPLIFIERS

The HAUC, HATT, HAUCxl and HATTxl are high quality, high output active headphone amplifiers that will drive any impedance headphones, including 8 Ohm in ear monitor devices. The HAUC (Headphone Amp Under Counter) and the HATT (Headphone Amp Table Top) are stereo units with unbalanced line level inputs via 1/4" or 3.5mm TRS jacks. The HAUCxl and HATTxl are mono headphone amplifiers using a mono balanced input via XLR connectors and sending the same signal to both the left and right earpieces. Bothe XL models also have an unbalanced 3.5mm TRS stereo input jack with the left and right summed to mono.

All four headphone amplifiers are powered by an included PS242.1 "wall wart" supply. Output power is 150mW into 8 Ohms and 300mW into 30 Ohms with low distortion and wide frequency response. Both 1/4" TRS and 3.5mm TRS headphone jacks are provided and the volume control adjusts the listening level. The HAUC and HAUCxl are packaged in a metal box with mounting flanges for attachment to the underside of tables and desktops. The HATT and HATTxl use an attractive, durable ABS box for placement anywhere a high quality headphone driver is required.

**whirlwind**

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## Front Panel

The single volume control adjusts the level delivered to both left and right earpieces. The power LED indicates operational status. Although ¼" TRS and 3.5mm TRS headphone jacks are included for convenience, only one jack should be used at a time.

## Rear Panel HAUC and HATT

Three paralleled looping jacks accept unbalanced stereo line level input signals. There are two ¼" TRS jacks and one 3.5mm TRS jack. This arrangement allows "daisy chaining" the signal to as many as 25 units with a single feed line. The left signal is on the tip and the right signal is on the ring. The sleeve is the common connection for both channels. The 2.1mm power input jack is for connection to the 24 Volt DC 200mA included power supply.

## Rear Panel HAUCxl and HATTxl

Female and Male XLR connectors are paralleled for looping the mono balanced line level input signal. As many as 25 units can be "daisy chained" together with a single feed line. Pin 2 is positive and pin three is negative. Pin one is shield. A separate 3.5mm stereo TRS jack is provided for injection of unbalanced stereo signals. The left and right are summed and delivered to the headphone outputs in mono. Both XLR and 3.5mm inputs can be used together if required. The 2.1mm power input jack is for connection to the 24 Volt DC 200mA included power supply.

## Specifications

Frequency Response	+/- .23 dBV 60 Hz to 20 kHz
THD+noise	< .04% 63 Hz to 20 kHz
Total Gain	23 dBV
Input Impedance	100 kOhms
Maximum Input level	>22 dBV
Maximum output level	2 dBV 8 Ohms; 9.5 dBV 30 Ohms
Headphone Impedance	8 to 600 Ohms
Noise at unity gain	-95 dBV 8 Ohms
Power consumption	180 mA DC full clean power 8 Ohms
Output drive power	1.1 VAC RMS into 8.25 Ohms = 151 mW 2.97 VAC RMS into 30 Ohms = 294 mW
Short circuit protection	Withstands shorted output at full level indefinitely

## Warranty

This product is guaranteed for 2 years from the date of purchase against manufacturing defects. For warranty service, return the unit, along with the original sales receipt, to: whirlwind, 99 Ling Road, Rochester, NY 14612, postage prepaid. We will repair or replace the unit at our option and pay the return postage.

# HAUC & HAUCXL Dimensions

