

# US Audio

## whirlwind

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### **P-12 STEREO POWER AMPLIFIER AND HEADPHONE DRIVER OWNERS MANUAL**

Congratulations on the purchase of the US Audio P-12 power amplifier. The P-12 is a stereo 12 Watt amplifier capable of producing moderate listening levels through speakers and headphones.

#### **Front Panel**

1. **Channel and 2 volume controls**  
These knobs vary the amplifier output level.
2. **Channel and 2 Clip LEDs**  
These LEDs will light when the P-12 amplifier output is approximately 3dB below clipping. (You will hear audible distortion if the amplifier is run at clipping.)
3. **Headphone Phones/Speaker switch**  
When this switch is in the speaker position (out) the speaker out terminals on the back panel are active while the headphone jack on the front panel and the XLR headphone jack on the back panel are off. When this switch is in the headphone position (in), the headphone jack on the front panel and the XLR connector on the back panel are active and the speaker terminals are off.
4. **Phones jack**  
This is a quarter inch tip ring sleeve headphone jack. The unit will operate properly with 8 Ohm to 600 Ohm headphone impedances.

#### **Rear Panel**

1. **CH1 and CH2 Input Jacks**  
These jacks are quarter inch, unbalanced, audio inputs.
2. **Headphone Out XLR**  
This headphone output XLR connector is active when the Headphone/Speaker switch is in the headphone position. When used with the US Audio Headphone Satellite boxes and standard microphone cables, the P-12 can drive multiple sets of headphones, with individual volume controls.
3. **CH1 and CH2 Speaker Outputs**  
These speaker terminals are active when the Headphone switch on the front panel is in the speaker position. The P-12 will drive impedances of 4 Ohms or greater.

## SPECIFICATIONS

Frequency response	20Hz to 30kHz + or - 3dBm
Output power (both channels driven)	11Watts RMS into 8 Ohms 14Watts RMS into 4 Ohms
Signal to noise ratio	Greater than 90dBm
Input impedance maximum	20kOhms unbalanced
Input level output protection	+16dBm.
Minimum output impedance	Thermal and short circuit protected 4 Ohms
THD	.2 % at 6W
Rise time	3uSec
Equivalent input noise	-78dBm
Maximum output level	+18dBm

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