

HA-6AB

Headphone/Monitor Amplifier

FURMAN
SOUND, INC.



FEATURES

- Powers headphones AND speakers
- Toroidal transformer for studio-quiet operation and low magnetic leakage
- 20 watts per channel, stereo
- 6 headphone outs, each with volume control
- Switches for two sets of speakers
- Automatically switches to mono mode when right channel is not used
- Overload and signal-present LED's for each channel
- Ground lift, on-off switches; power-on indicator
- Provision for remotely located volume controls

Furman's six-station-dual-stereo headphone amplifier and 20 watt power amplifier delivers superb sound quality with virtually unlimited flexibility.

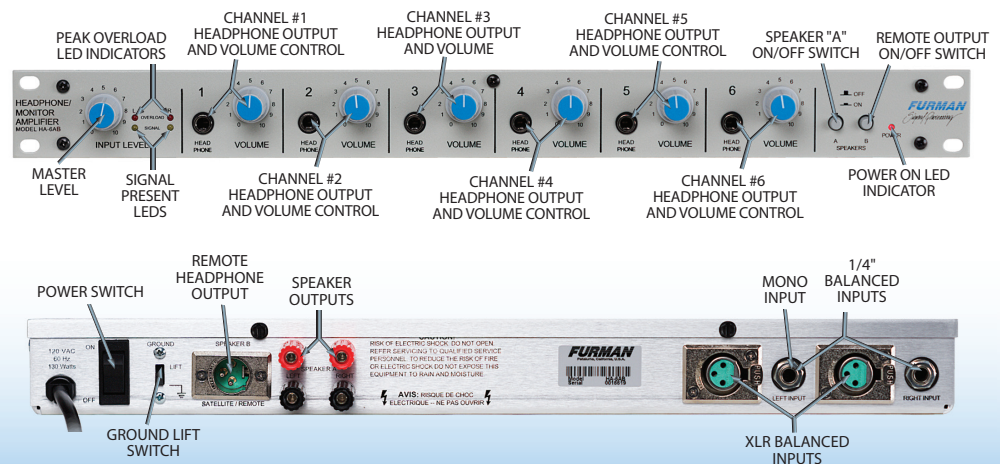
From major recording and post-production houses, schools, libraries, home studios, even the United Nations, professionals depend on the versatility and reliability of Furman's HA-6AB and associated headphone distribution products.

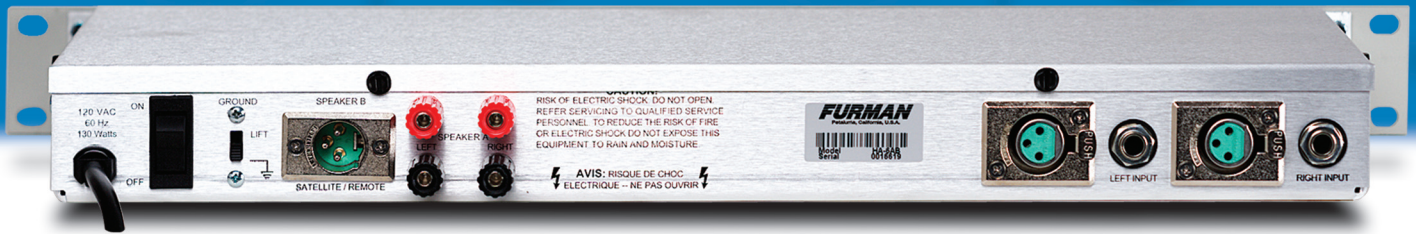
Whether controlling two sets of passive loudspeakers and up to six headphones from a single location or distributing them to areas hundreds of feet away (with Furman's HR-2 remote headphone stations), the options for supplying multiple headphones and loudspeakers are limitless.

DESCRIPTION

The HA-6AB Headphone/Monitor Amplifier is a unique combination of a headphone amp and a conventional power amp. This combination of functions can save the expense of an extra power amp in many recording studios.

The HA-6AB is basically an economical 20 watt per channel stereo amplifier. Unlike a conventional power amp, however, it has six headphone outputs (stereo phone jacks) on the front panel, each with an associated volume control. When used for overdubbing, rehearsal, or in libraries and educational centers, this provides more than adequate volume for all headphones, allowing up to six people to set their own volume level. In the studio, when overdubbing is complete and the musicians remove their headphones, the HA-6AB can power





the recorded playback through either (or both) of two sets of passive studio monitor speakers, selected by pressing front panel pushbuttons. Without the HA-6AB, a separate amp would be needed for the studio speakers.

The HA-6AB also features a convenient input level control on the left side of the front panel. A pair of yellow LED's—one for each channel—light up whenever signal is present (threshold -28 dBu). Another pair of red LED's show an overload condition in either channel.

The Furman HA-6AB's 20 watts-per-channel make it ideal as a low distortion headphone driver for the most critical listening situations. While most headphone amps provide half a watt or less per headphone channel, the HA-6AB's higher power can drive headphones of any impedance to their full rated listening level, and do so with minimal noise and distortion. Its power capacity is also just right for small near field monitor speakers used in most recording studios as a comparison with the main control room monitors—it can power them without overpowering them. On the studio floor, a set of small monitor speakers driven by the HA-6AB can make a session progress more efficiently by giving the musicians a chance to hear a playback without needing to disconnect themselves from their equipment and

walk into the control room.

The HA-6AB utilizes an efficient toroidal power transformer for low noise operation and low magnetic leakage, as required in a studio environment. It is fully protected against thermal overload, and it can withstand a short circuit on any or all outputs for an indefinite time without damage.

THREE YEAR LIMITED WARRANTY

The Furman HA-6AB and HR-2 are protected by a limited three-year warranty covering defects in materials and workmanship.

ACCESSORY

Model HR-2 Headphone Remote Station:

A compact, unobtrusive box that clamps to a mike stand or belt, providing two headphone jacks, each with its own volume control. Any number of HR-2 stations may be connected to a HA-6AB using standard microphone cables. Comes with snap-on, snap-off mike stand clamp.



HR-2 Headphone Remote

HA-6AB SPECIFICATIONS

OUTPUTS:

Power: 20 watts per channel, stereo, into either 4 ohms or 8 ohms, 20 Hz to 20 KHz.

Connectors: Speakers A: 5-way binding posts (accommodates dual banana plugs, spade lugs, bare wires, etc.)
Speakers B: Satellite

Remote: Male XLR.

INPUTS:

Input Impedance: 20K ohms.

Sensitivity: -4 dBV (635 mv) required for full output.

Connectors: HA-6AB, both stereo phone (balanced) and XLR (balanced).

GENERAL:

Distortion: .01 % THD at full rated power at 1 KHz; .05% THD 20Hz to 20 KHz.

Signal to Noise: Greater than 99 dB below full rated output.

Frequency Response: +0, -1 dB from 20 Hz to 20 KHz, 1 watt output.

Dynamic Headroom: 2 dB, stereo, measured with 10 ms toneburst at 1 KHz, 1 % duty cycle.

Power Requirement: HA-6AB: 120 VAC, 60 Hz, 70 watts
HA-6ABE: 230 VAC, 50/60 Hz, 70 watts

MECHANICAL:

Dimensions: 1.75" H x 19" W x 7.25" D. Wt: 7.5 lbs (3.4 kg)