Use of Headphone Remote Stations

Furman HR-2 Headphone Remote Stations (sometimes called satellites) are intended for use with the Furman HA-6A Headphone/Monitor Amplifier to increase the number of headphone stations beyond the six provided, and/or to locate them more conveniently. With the use of a simple adaptor, HR-2’s may also be used with any stereo power amplifier of 50 watts per channel or less to convert them to use as headphone distribution amplifiers. (The Furman SP-20A Half Rack Power Amplifier has the required adaptor built in.) Each HR-2 box can accommodate two sets of headphones, each with its own volume control.

Recording and Rehearsal

In the recording studio, headphones are most often used in the overdubbing process, where new musical tracks are recorded in synchronization with previously recorded tracks. The musicians doing the overdub hear the already recorded tracks in their headphones, and play along with them. In this way, it is possible to build up a complete recording of many tracks, adding one or more new tracks with each overdub.

Because of the presence of open microphones, headphones are much preferred to speakers for cueing overdubs. Even if headphones are used, it is important that they clamp tightly to the musicians’ heads so that a minimal amount of sound leaks out.

The cue mix heard in the headphones is a combination of the previously recorded tracks along with the new sounds being added. It is generally derived from a “Cue” or “Headphone” mixing buss on the recording console, which is then routed to the Left and Right Inputs on the HA-6A’s rear panel. If this mix is mono, connect it to the Left Input. The HA-6A will then automatically be in mono mode, so that the mix can be heard with both ears (or both speakers, if used).

In many situations, it may be sufficient to plug all headphones directly into the HA-6A. However, in a larger studio, or when each musician must have easy access to his or her headphone volume control, it is more practical to use several HR-2 Remote Stations at strategic locations around the room. In this case, the HA-6A (or the stereo power amplifier substituting for it) would most likely be installed in the control room.

The HR-2 Remote Stations connect in “daisy chain” fashion to the SPEAKER B-SATELLITE/REMOTE output on the rear panel of the HA-6A. This output is a male 3-pin XLR connector, so that ordinary microphone cables can be used. The HA-6A connects to the first HR-2 box; another mic cable connects the first HR-2 to the second HR-2; a third mic cable connects the second HR-2 to the third HR-2; and so on. If low impedance headphones are used, up to twelve HR-2’s may be chained together. If medium or high impedance headphones are used, 20 or more Remote Stations may be chained.

The HR-2 Remote Stations are compact boxes which easily attach with a thumbscrew to any microphone stand. Each HR-2 has two stereo volume controls and two headphone jacks, to accommodate two listeners. There are also two XLR connectors, one male and one female, for use in daisy-chaining units together. If desired, the clip on an HR-2 box may be hung on a belt if no microphone stand is convenient. Or, the clip itself may be popped off the box for tabletop use.

Using HR-2’s with Standard Power Amplifiers

If a power amplifier other than the 20 watt/channel Furman HA-6A or SP-20A is used to drive a chain of HR-2 Remote Stations, it is recommended that the amp have no more than 50 watts/channel maximum output to preclude the possibility of damage to the HR-2’s. Also, an adaptor to connect the left and right outputs to a single male XLR connector will have to be made. This should be wired as follows: Pin 3—left output, high; Pin 2—right output, high; and Pin 1—low, common to both channels.

Three Year Limited Warranty

Furman Sound, Inc., having its principal place of business at 1997 South McDowell Blvd., Petaluma, CA 94954 (“Manufacturer”) warrants its HR-2 (the “Product”) as follows:

Manufacturer warrants to the original Purchaser of the Product that the Product sold hereunder will be free from defects in material and workmanship for a period of three years from the date of purchase. The Purchaser of the product is allowed fifteen days from the date of purchase to complete warranty registration by mail or on-line at the Furman website. If the Product does not conform to this Limited Warranty during the warranty period (as herein above specified), Purchaser shall notify Manufacturer in writing of the claimed defects. If the defects are of such type and nature as to be covered by this warranty, Manufacturer shall authorize Purchaser to return the Product to the Furman factory or to an authorized Furman repair location. Warranty claims should be accompanied by a copy of the original purchase invoice showing the purchase date; this is not necessary if the Warranty Registration was completed either via the mailed in warranty card or on-line website registration. Shipping charges to the Furman factory or to an authorized repair location must be prepaid by the Purchaser of the product. Manufacturer shall, at its own expense, furnish a replacement Product or, at Manufacturer’s option, repair the defective Product. Return shipping charges back to Purchaser will be paid by Manufacturer.

NOTE: All equipment being returned for repair must have a Return Authorization (R/A) Number. To get an R/A Number, please call the Furman Service Department: (707) 763-1010, ext. 40. Please write your R/A Number prominently on the front of the package.

Furman Sound, Inc.
1997 South McDowell Blvd.
Petaluma, California 94954-6919 USA
Phone: 707-763-1010 • Fax: 707-763-1310
www.furmansound.com • E-mail: info@furmansound.com

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