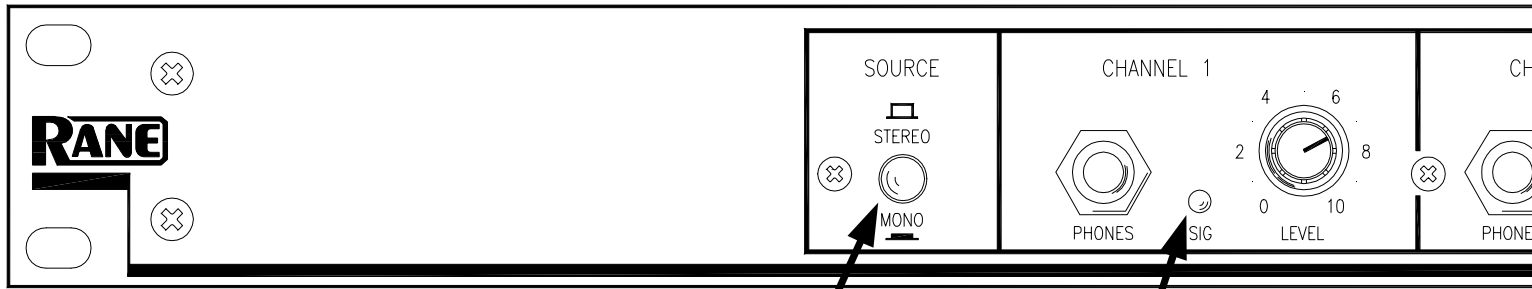


QUICK START

Connect the output from any stereo source such as a mixer or tape deck, and plug the left and right inputs into the respective **INPUT** jacks. The Inputs accept balanced or unbalanced sources. Just plug them in. This source is now routed to each of the four Outputs.

For a single mono source feeding all headphones, connect it to either one of the **INPUT** jacks and engage the **STEREO/MONO** switch. Set the **CHANNEL LEVEL** controls for individual headphone levels.

Never connect anything except a Rane power supply to the thing that looks like a telephone jack on the rear of the unit. This is an AC input and requires special attention if you do not have a power supply *exactly* like the one originally packed with your unit. See the full explanation of the power supply requirements elsewhere in this manual.



STEREO/MONO switch

Converts the INPUTS from stereo to mono so that a single input cable drives both sides of the headphones. In some instances a STEREO program may be confusing for live monitoring purposes, and switching to MONO improves intelligibility by summing the Left and Right signals.

OVERLOAD indicators

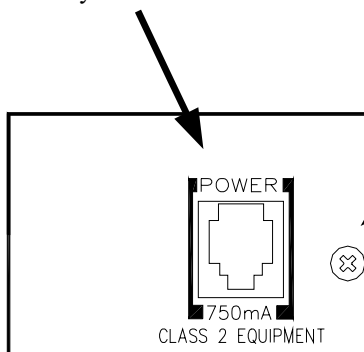
The red LEDs light when the input signal exceeds the HC 4's output capability (3 dB below maximum). Occasional flickering is acceptable. The overload point automatically varies with the headphones used.

Remote POWER supply input

The unit is supplied from the factory with a Model RS 1 remote power supply suitable for connection to this input jack. The power requirements of the unit call for an 18 volt AC center-tapped transformer only. **This is not a telephone jack. Never use a power supply with your unit other than the one supplied or a replacement approved by Rane Corporation.** Using any other type of supply may damage the unit and void the warranty.

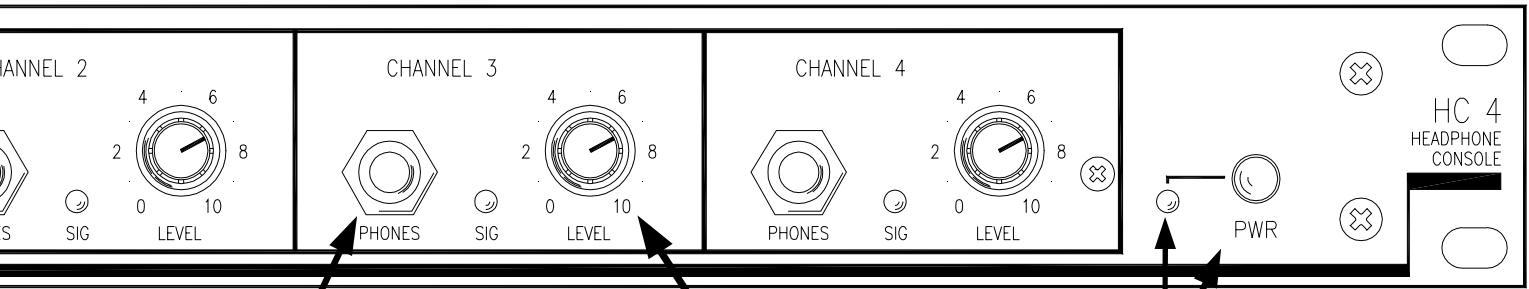
Chassis ground point

A screw is supplied for chassis grounding purposes. This unit comes with an outboard power supply which does not ground the chassis through the line cord. The HC 4 can be grounded either to another chassis which is earth grounded, or directly to the grounding screw on an AC outlet cover by means of a wire connected to this chassis grounding screw.



CONNECTION INFORMATION

INPUT - 1/4 INCH PHONE JACKS, BALANCED
 SLEEVE = SHIELD, TIP = POSITIVE (+),
 1/4 INCH PHONE JACKS, UNBALANCED:
 TIP = HOT (SIGNAL), RING = GROUND,
 OUTPUT - 1/4 INCH HEADPHONE JACKS (FRONT F)
 TIP = LEFT, RING = RIGHT, SLEEVE =



PHONE Output jacks

These stereo 1/4" TRS jacks accept standard 1/4" TRS stereo headphone plugs.

Individual LEVEL controls

These control the volume for each set of headphones as they are driven from the INPUTS. It's always a good idea to keep this control turned down before plugging in a pair of phones, then turn it up slowly.

POWER switch and LED

Your basic, straightforward power switch. When the yellow LED is lit, the HC 4 is ready to go.

INPUT jacks

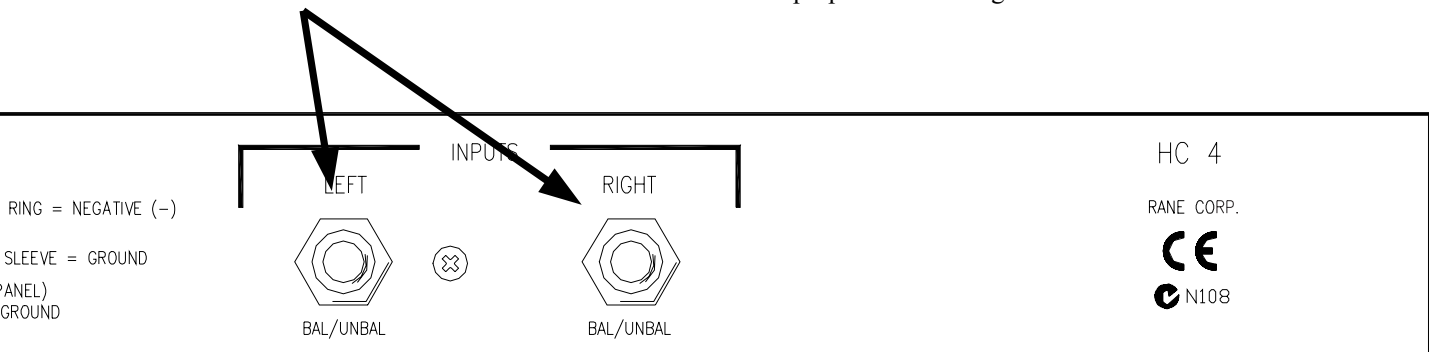
These are automatic balanced/unbalanced Inputs, which accept either a 1/4" TRS (Tip-Ring-Sleeve) plug for balanced operation, or a 1/4" TS (Tip-Sleeve) plug for unbalanced operation. A balanced line is best when connecting a cable over 10 feet in length. You do nothing different when hooking up balanced or unbalanced lines. The HC 4 is one smart animal.

HC 4 CONNECTION

With the power switch in the *off* (out) position, plug the power cord into the appropriate AC power source indicated on the rear panel. Locate the power supply case away from the HC 4 and other hum sensitive equipment.

Begin with all LEVEL controls counterclockwise at "0". Plug the outputs from a mono or stereo source into the INPUTS.

See the *Sound System Interconnection* RaneNote later in this manual for more information on proper cable wiring between devices.



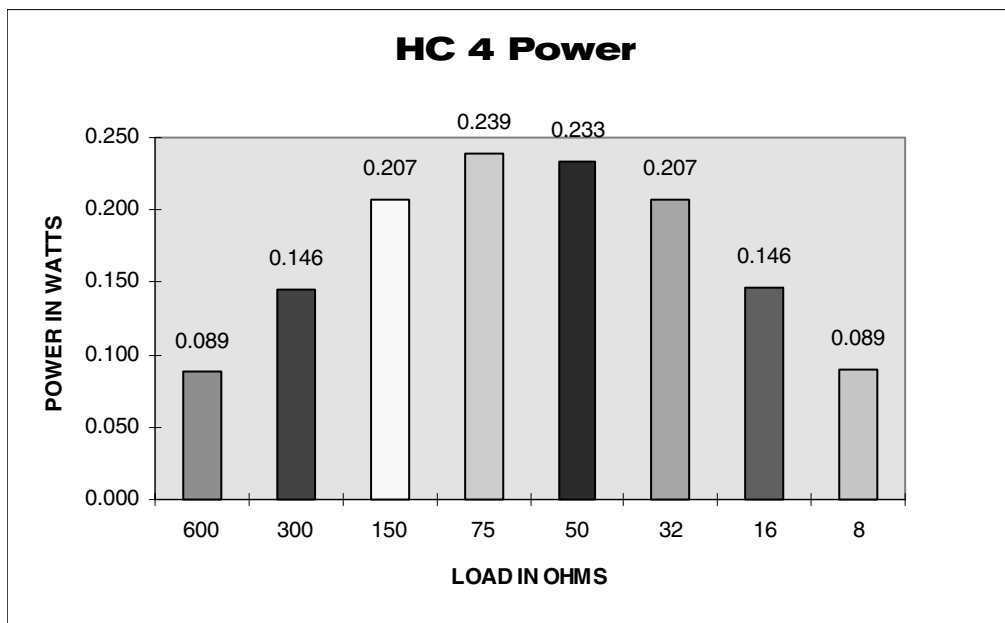
UNDERSTANDING HEADPHONE POWER REQUIREMENTS

HEADPHONE SENSITIVITY

As you can see from the chart below, headphones near 75 ohms impedance produce the highest power levels from the HC 4. However, headphone sensitivities vary widely, and are not merely a function of power. *Note: headphones with an impedance of less than 32 ohms are not recommended for use with the HC 4.*

THE LIST

As an aid in finding out how much power is available from the HC 4 Headphone Console we have compiled a listing of popular headphones. See RaneNote 100, “*Understanding Headphone Power Requirements*,” elsewhere in this booklet, or downloadable from Rane’s website.



HC 4 power with all Channels driven simultaneously or with any combination