

DESCRIPTION
REAL COMPETENCE

SINE HP 48

Stereo Headphone Amplifier



TERRATEC PRODUCER/SINE HP 48

English Manual

Version 1.0, last revised: November 2003

CE Declaration

We:

TerraTec Electronic GmbH, Herrenpfad 38, D-41334 Nettetal, Germany

hereby declare that the product:

TerraTec Producer SINE HP 48,

to which this declaration refers is in compliance with the following standards or standardizing documents:

1. EN 55013

2. EN 55020

The following are the stipulated operating and environmental conditions for said compliance:

residential, business and commercial environments and small-company environments.

This declaration is based on:

Test report(s) of the EMC testing laboratory



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Important safety information

- Please read all instructions before using this device.
- Never use the device near water, i.e. next to a bathtub, sink, or drain, in a damp basement or near a swimming pool.
- Used in combination with an amplifier and headphones or speakers, this device can cause sound levels that may result in lasting hearing damage. Avoid long exposure to excessive or unpleasantly high volume levels. Consult an ear specialist immediately if you detect a loss of hearing or a ringing in your ears.
- Ensure adequate ventilation for the device when setting it up.
- Do not install it near sources of heat such as radiators, ovens or similar devices.
- Ensure that the device is connected only to a standard AC outlet.
- Position it in such a manner that no dust, liquids or foreign objects can enter the housing.
- Unplug the external power supply from the AC outlet if you do not intend to use the device for an extended period.
- The device must be serviced by trained personnel if:
 - the external power supply is damaged,
 - objects or liquids have entered the device,
 - the device was left in the rain,
 - the device was damaged by dropping,
 - the device is malfunctioning.
- Do not attempt to repair the device yourself. Please consult a trained technician.
- Please ensure that all analog devices are turned off before plugging them in. This will protect you from any possible—albeit weak—electrical shocks, as well as protecting your speakers and your hearing from sudden peaks. For digital devices, be sure to at least lower the volume on your playback equipment.

Welcome!

We are pleased that you have chosen a TerraTec Producer rack system and would like to congratulate you on your decision. You've purchased a sophisticated product representing the state of the art of studio technology, and we're convinced that our product will prove extremely useful to you in the coming years and provide you with a great deal of entertainment.

This manual describes the SINE HP 48 headphone amp. It contains everything you need to know about the correct use of the systems, as well as a number of practical tips that will get you started right away.

We hope you enjoy your headphone amp and would like to suggest that you browse this hopefully entertaining manual when you get the chance. In addition to the important information about its technology, we have outlined a number of typical applications as well as tips and tricks wherever appropriate. We're convinced that even experienced users will profit from this guide.

Thanks for your attention—and here's to your creativity.

Sincerely, Your TerraTec Producer Team

Scope of delivery

Start by making sure that the contents of the package are complete. The **SINE HP 48** package should contain at least the following:

- 1 19" SINE HP 48 rack module
- 1 12V AC power adapter (alternating current!)
- 1 customer service card
- 1 registration card with the serial number
- 1 BeSonic Premium Account registration card
- This manual

Please return the enclosed registration card to us at the earliest possible opportunity or register online at <http://www.terratec.com/register.htm>. This is important for support and hotline services.

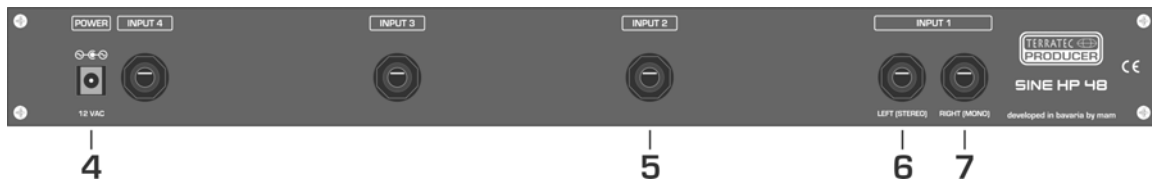
Connections and controls

The front panel:



1. VOLUME: controls the signal level per channel
2. OUT A/OUT B: headphone outputs, 1/4" stereo jack
3. POWER LED: indicates the operational status

The rear panel:



4. 12 V AC: 12V AC power adapter (alternating current)
5. INPUT 2: stereo input, 1/4" stereo jack
6. INPUT 1 LEFT (STEREO): left input in mono mode or stereo input for stereo signal, 1/4" stereo jack
7. INPUT 1 RIGHT (MONO): right input, 1/4" mono jack

Function

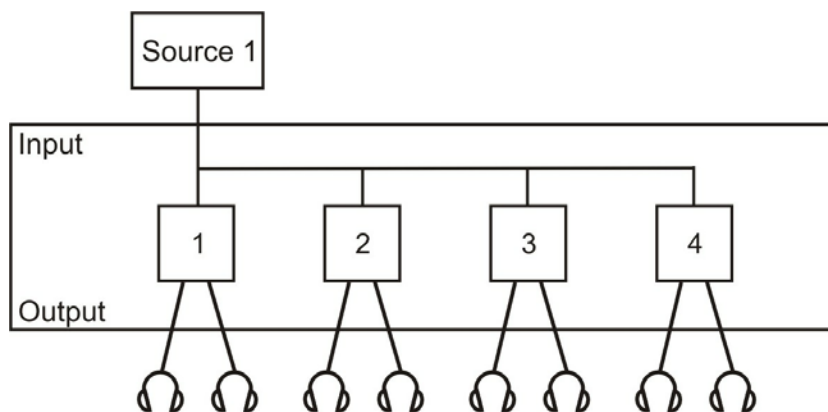
To use the SINE HP 48 headphone amp, connect it to an AC power supply. Use the included 12 V AC adapter for this purpose.

The LED on the front panel indicates that the device is operational (no on/off switch). Unplug the external power supply from the AC outlet if you do not intend to use the device for an extended period.

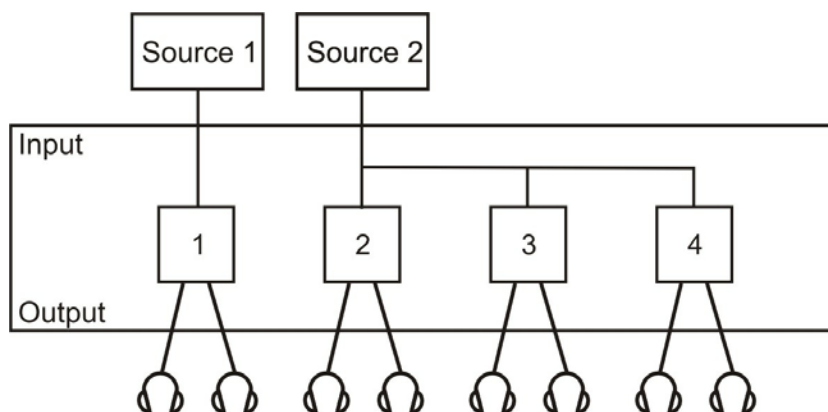
The SINE HP 48 features 4 independent stereo amplifiers. The input for Channel 1 on the rear panel has a mono and a stereo socket. You can therefore connect either 2 mono jack cables, one stereo jack cable or one mono jack cable (monophonic signal playback) to this input. When properly connected, the SINE HP 48 will automatically detect the connection type.

Channels 2, 3 and 4 each have stereo sockets as inputs (use stereo jack cables!).

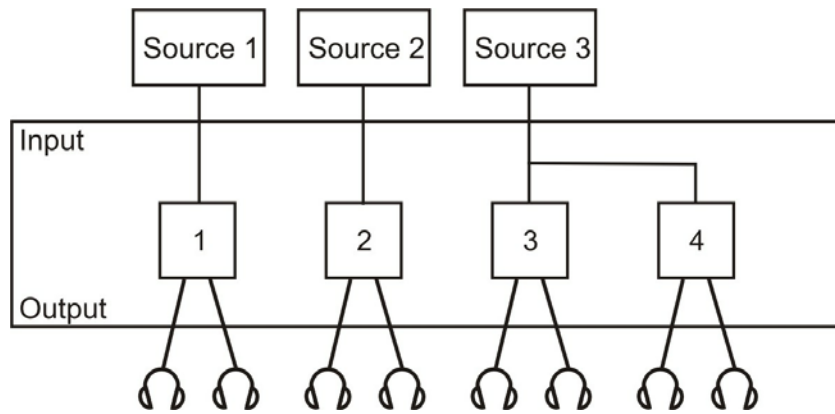
The SINE HP 48 supports cascading. Apply an audio signal to Channel 1 and it will be available on all 4 channels.



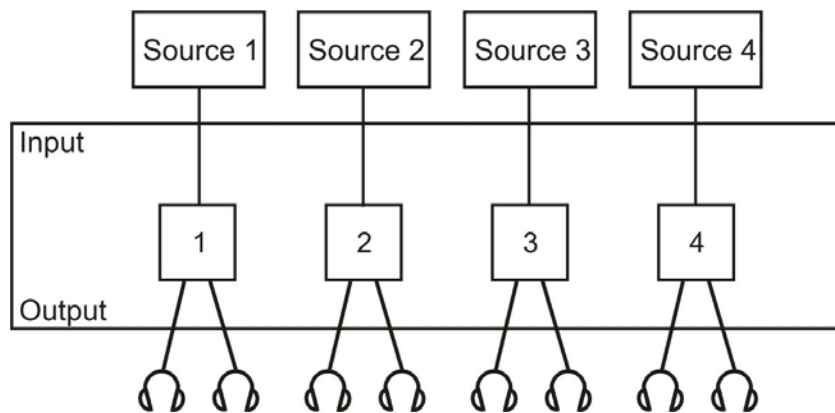
If you now apply an additional audio signal to Channel 2, that signal will also be available on Channels 3 and 4, whereas the first audio signal will still be available on Channel 1.



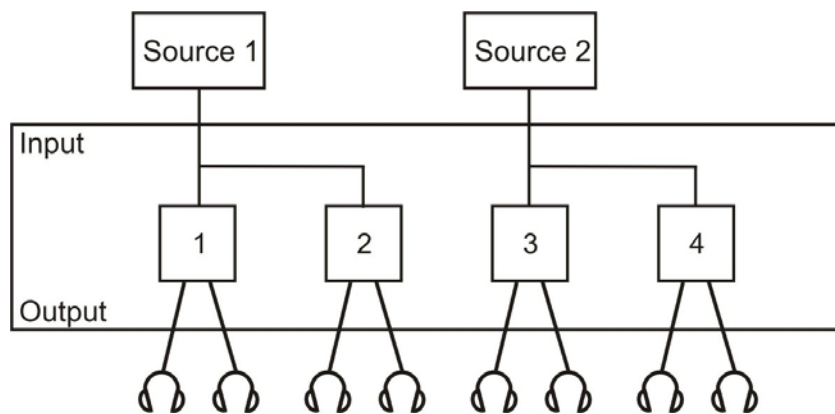
If you now apply a third audio signal to Channel 3, it will also be available on Channel 4.



If all four inputs are in use, all channels will be used independently.



The input signals can also be split.



For best results, use 600 ohm headphones. Using headphones with a lower impedance (e.g. 40 ohms) may result in distortion at high volumes.

Technical data

Inputs:	unbalanced
Frequency response:	20 Hz – 20 kHz
Input impedance:	10 kohm
Max. output power:	0.2 W ea. at 600 ohms
Outputs:	unbalanced
Frequency response:	20 Hz – 20 kHz
External power supply:	12 V AC, >500 mA
Dimensions:	482.6 x 87 x 44 mm (19", 1U)

Service at TerraTec Producer

Sometimes, no matter how good the weather is, things do not always work as they should. Problems can arise in the best studio systems. If this happens to you, the TerraTec Producer team is happy to offer its service and support.

Internet, Hotline

If you have a tough problem—where you cannot solve the problem yourself, the support in this manual doesn't resolve the problem, and your dealer can't fix it either—please contact us directly.

If possible, try our Internet support system first: under <http://www.terratec.com/> you will always find current answers to frequently asked questions (FAQ).

If these options do not provide the necessary help, please contact our phone hotline. You can also reach us online.

To do so, visit us at <http://supporten.terratec.net/>.

In either case, please have the following information handy:

- your registration number
- this documentation.

In addition, it would be helpful to our technicians if you are at your device during the phone call to directly carry out tips and tricks. Please do not forget to write down the name of the respective support technician if you contact our Support Team. You will need this name if a defect is present and your device needs to be mailed to us.