

DESCRIPTION  
REAL COMPETENCE

# SINE DI 4

## 4 Channel Direct Inj. Box



# SINE DI 8

## 8 Channel Direct Inj. Box



TERRATEC PRODUCER/SINE DI 4 / SINE DI 8

English Manual

Version 1.0, last revised: November 2003

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CE Declaration

We:

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

hereby declare that the products:

TerraTec Producer SINE DI 4 and SINE DI 8,

to which this declaration refers are 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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**Contents**

**Important safety information** ..... 4

**Welcome!** ..... 5

**Scope of delivery** ..... 5

**SINE DI 4** ..... 6

    Connections and controls ..... 6

        The front panel: ..... 6

        The rear panel: ..... 6

    Function ..... 7

    Technical data ..... 7

**SINE DI 8** ..... 8

    Connections and controls ..... 8

        The front panel: ..... 8

        The rear panel: ..... 8

    Function ..... 9

    Technical data ..... 9

**Service at TerraTec Producer** ..... 10

    Internet, Hotline ..... 10

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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.

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## 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 DI 4/DI 8 DI boxes. 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 DI box 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 DI 4/DI 8 Rack DI System package should contain at least the following:

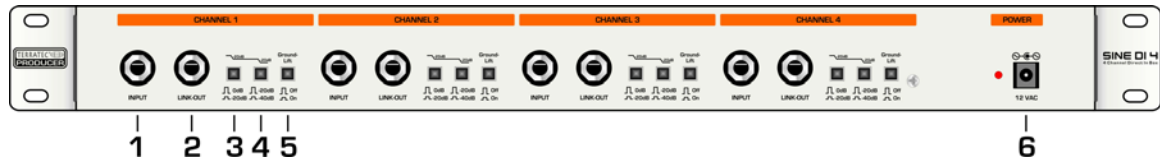
- SINE DI 4 **or** DI 8 19" rack module
- 12V AC power supply **only** DI 4
- Customer service card
- Registration card with the serial number
- BeSonic Premium Account registration card
- This manual

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.

# SINE DI 4

## Connections and controls

The front panel:



1. INPUT: Input socket (1/4" mono jack)
2. LINK-OUT: Output for direct signal feed-through
3. -20 dB attenuation
4. -40 dB attenuation (only in conjunction with -20 dB attenuation)
5. GROUND-LIFT: Ground isolation of the signal
6. 12 V AC: AC power

The rear panel:



7. POWER: Power switch
8. 12 V AC: AC power
9. OUTPUT: Balanced output, XLR
10. INPUT: Input socket (1/4" mono jack)

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## Function

The SINE DI 4 rack system is an active direct injection box that converts unbalanced line signals to balanced signals. Apply an unbalanced line signal to the input on the front or rear panel to get a balanced signal at the XLR output. The signal is also fed through unchanged to the Link-Out socket.

You can also attenuate the signal by  $-20$  dB or  $-40$  dB.

And if you're being annoyed by hum pickup, use the ground lift switch to fully isolate the input and output signals from one another.

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***Note: do not connect two sources (front and back) to the same input channel. This may damage the device.***

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## Technical data

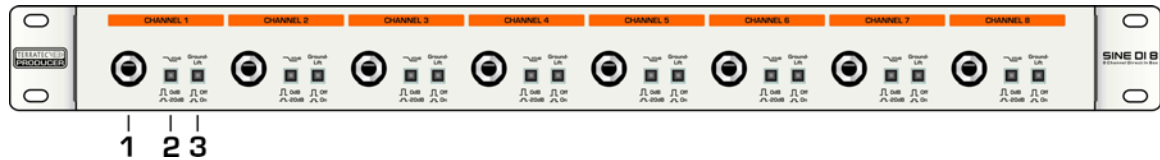
Audio inputs:	4 x 1/4" unbalanced jacks, front panel 4 x 1/4" unbalanced jacks, rear panel (parallel to front panel)
Input impedance:	470 ohm
Audio outputs:	4 x XLR, balanced, rear panel 4 x Link-Out, unbalanced, front panel
Output impedance:	1 kohm
Frequency response:	25 Hz – 20 kHz
AC power:	12V AC, 700 mA
Dimensions:	482.6 x 87 x 44 mm (19", 1U)

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# SINE DI 8

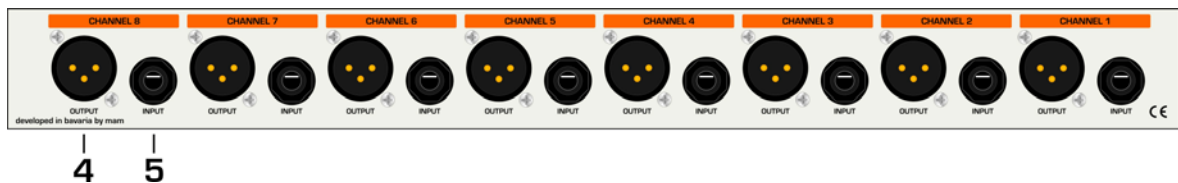
## Connections and controls

The front panel:



1. INPUT: Input socket (1/4" mono jack)
2. -20 dB attenuation
3. GROUND-LIFT: Ground isolation of the signal

The rear panel:



4. OUTPUT: Balanced output, XLR
5. INPUT: Input socket (1/4" mono jack)



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## Function

The SINE DI 8 rack system is a passive direct injection box which does not require a dedicated power supply. The primary application of the SINE DI 8 is the isolation of input and output signals (synthesizers, mixers, etc.). This is partly realized by interrupting the ground connection of the signal that frequently causes hum pickup. For example, to isolate the connection between a synthesizer and mixer, connect the synthesizer to one of the 8 inputs of the DI 8. Next, connect the associated output of the DI 8 to the mixer input. You can also attenuate the signal by -20 dB.

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**Note: do not connect two sources (front and back) to the same input channel. This may damage the device.**

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## Technical data

Audio inputs:	8 x 1/4" unbalanced jacks, front panel 8 x 1/4" unbalanced jacks, rear panel (parallel to front panel)
Input impedance:	1 kohm
Audio outputs:	8 x XLR, balanced
Output impedance:	1 kohm
Frequency response:	25 Hz – 20 kHz
Dimensions:	482.6 x 87 x 44 mm (19", 1U)

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## 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.