

DESCRIPTION  
REAL COMPETENCE

# SINE SLE 82

## 8 Channel Stereo Line Mixer



# SINE SLM 82

## 8 Channel Stereo Line Mixer



# SINE SLM 162

## 16 Channel Stereo Line Mixer



TERRATEC PRODUCER/SINE SLE 82, SLM 82, SLM 162  
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 SLE 82, SINE SLM 82 and SINE SLM 162,

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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## 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 mixer 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 SLE 82, SINE SLM 82 and SINE SLM 162 rack mixers. 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 mixer 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 SLE 82/SLM 82/SLM 162** rack mixer package should contain at least the following:

- SINE SLE 82 or SLM 82 or SLM 162 19" rack mixer
- 12V AC power adapter
- 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.

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# SINE SLE 82

## Connections and controls

### The front panel:



1. VOLUME: volume control for channel 1/2
2. BALANCE: panorama control
3. EFFECT: volume control for effects loop in channel
4. EFFECT: volume control for effects loop in master
5. VOLUME: volume control for master output and headphones
6. POWER LED: indicates operating status
7. PHONES: headphone socket, 1/4" stereo jack

The controls 1 - 3 and their functions are identical for the channels 1/2, 3/4, 5/6 and 7/8.

### The rear panel:



8. 12 V AC: 12V AC power adapter (alternating current)
9. OUTPUT LEFT (STEREO): left master output in mono mode or stereo output for stereo signal, 1/4" stereo jack
10. OUTPUT RIGHT (MONO): right master output, 1/4" mono jack
11. EFFECT RETURN LEFT (STEREO): left effect input in mono mode or stereo input for stereo signal, 1/4" stereo jack
12. EFFECT RETURN RIGHT (MONO) right effect input, 1/4" mono jack
13. EFFECT SEND MONO: output to effects device, 1/4" mono jack
14. CHANNEL 1/2 LEFT (STEREO): left input in mono mode or stereo input for stereo signal, 1/4" stereo jack
15. CHANNEL 1/2 RIGHT (MONO): right input

The function descriptions 14 and 15 apply to the channels 1/2, 3/4, 5/6 and 7/8.

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## Function

The SINE SLE 82 mixer has 4 stereo channels, i.e. 8 separate inputs. These inputs are intended for signals amplified to line levels such as keyboards, preamps, drum computers and the like. Please do not connect microphones or electric guitars directly to the mixer.

The sockets of the effects loop are located on the rear panel (one mono Effect Send and one mono Effect Return, as well as one stereo Effect Return socket).

Please use the included 12 V AC power adapter to connect the SINE SLE 82 Mixer to an AC power source. The LED on the front panel indicates that the device is operational (no on/off switch).

The INPUTS (rear panel) can be used as follows:

External source	SINE SLE 82
Stereo (2 mono outputs)	INPUT left and right
Stereo (1 stereo output)	INPUT left (stereo jack)
Mono (1 mono output)	INPUT right (mono jack)

When properly connected, the SINE SLE 82 mixer automatically recognizes the connection type. This also applies to the outputs.

The VOLUME controls regulate the total volume of each channel pair, while the BALANCE controls regulate the relative volumes of the left and right sides.

The MASTER VOLUME control regulates the overall volume of all connected audio sources and adjusts the SINE SLE 82 to suit a main mixer or recording interface, as well as controlling the headphone volume.

## Technical data

Input level	- 14 dB
Output impedance	600 ohm
Signal-to-noise ratio	>97 dB
Headphone	1.3 mW/600 ohm
Input impedance	22 kohm
Gain	- 00 to 28 dB
Frequency response	4 Hz – 20 kHz
Dimensions	482.6 x 87 x 44 mm (19", 1U)

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# SINE SLM 82

## Connections and controls

### The front panel:



1. VOLUME: volume control for channel 1/2
2. BALANCE: panorama control
3. VOLUME: volume control for master output and headphones
4. POWER LED: indicates operating status
5. PHONES: headphone socket, 1/4" stereo jack

The controls 1 – 2 and their functions are identical for the channels 1/2, 3/4, 5/6 and 7/8.

### The rear panel:



6. 12 V AC: 12V AC power adapter (alternating current)
7. OUTPUT LEFT (STEREO): left master output in mono mode or stereo output for stereo signal, 1/4" stereo jack
8. OUTPUT RIGHT (MONO): right master output, 1/4" mono jack
9. CHANNEL 1/2 LEFT (STEREO): left input in mono mode or stereo input for stereo signal, 1/4" stereo jack
10. CHANNEL 1/2 RIGHT (MONO): right input

The function descriptions 9 and 10 apply to the channels 1/2, 3/4, 5/6 and 7/8.



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## Function

The SINE SLM 82 has 4 stereo channels, i.e. 8 separate inputs. These inputs are intended for signals amplified to line levels such as keyboards, preamps, drum computers and the like. Please do not connect microphones or electric guitars directly to the mixer.

Please use the included 12 V DC power adapter to connect the SINE SLM 82 Mixer to an AC power source. The LED on the front panel indicates that the device is operational (no on/off switch).

The INPUTS (rear panel) can be used as follows:

External source	SINE SLM 82
Stereo (2 mono outputs)	INPUT left and right
Stereo (1 stereo output)	INPUT left (stereo jack)
Mono (1 mono output)	INPUT right (mono jack)

When properly connected, the SINE SLM 82 mixer automatically recognizes the connection type. This also applies to the outputs.

The VOLUME controls regulate the total volume of each channel, while the BALANCE controls regulate the relative volumes of the left and right sides.

The MASTER VOLUME control regulates the overall volume of all connected audio sources and adjusts the SINE SLM 82 to suit a main mixer or recording interface, as well as controlling the headphone volume.

## Technical data

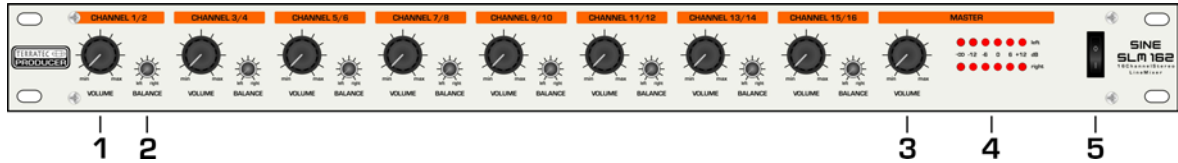
Input level	- 14 dB
Output impedance	600 ohm
Signal-to-noise ratio	>97 dB
Headphone	1.3 mW/600 ohm
Input impedance	22 kohm
Gain	- 00 to 28 dB
Frequency response	4 Hz – 20 kHz
Dimensions	482.6 x 87 x 44 mm (19", 1U)

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# SINE SLM 162

## Connections and controls

### The front panel:



1. VOLUME: volume control for channel 1/2
2. BALANCE: balance control for channel 1/2
3. VOLUME: volume control for master output
4. Level display
5. POWER: Power switch

The controls 1 – 2 and their functions are identical for the channels 1/2 – 15/16.

### The rear panel:



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

The function descriptions 9 and 10 apply to the channels 1/2 – 15/16

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## Function

The SINE SLM 162 has 8 stereo channels, i.e. 16 separate inputs. These inputs are intended for signals amplified to line levels such as keyboards, preamps, drum computers and the like. Please do not connect microphones or electric guitars directly to the mixer.

Please use the included 12 V AC power adapter to connect the SINE SLM 162 Mixer to an AC power source. After turning the mixer on with the POWER switch, the first LEDs of the LED chains indicate that the device is operational.

The INPUTS (rear panel) can be used as follows:

External source	SINE SLM 162
Stereo (2 mono outputs)	INPUT left and right
Stereo (1 stereo output)	INPUT left (stereo jack)
Mono (1 mono output)	INPUT right (mono jack)

When properly connected, the SINE SLM 162 mixer will automatically detect the connection type.

The VOLUME controls regulate the volume of the incoming signal; the BALANCE control regulates the relative volumes of the left and right stereo channels.

The MASTER VOLUME control regulates the overall volume of all connected audio sources and adjusts the SINE SLM 162 to suit a main mixer, power amplifier or recording interface.

The level displays indicate an overload of one or both channels when the LED chains are completely lit. When set up optimally, the last two LEDs (+12 dB) should not light up. Also ensure that the volume of the individual channels is always higher than that of the master control.

## Technical data

Input level	-14 dB
Output impedance	600 ohm
Signal-to-noise ratio	>97 dB
Input impedance	10 kohm
Gain	-00 to 28 dB
Frequency response	4 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.