



TEGELR

Tube Summing Mixer

User Manual

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Safety first

Safety Instructions

Read carefully before using the device.

1. Only use the device in permitted and functional outlets.
 2. Protect the device and the power plug against humidity, dripping or splash water to avoid the risk of electric shock. For example, do not place any liquids in containers or similar close to the device.
 3. Never place the device in extremely warm or cold environments and absolutely never in direct sunlight. This could create a fire risk.
The recommended operational temperature is between 15°C and 35°C. Condensation may occur if the device is brought from a cold to a warm environment. In this case, the device should be switched off for several hours.
 4. Never place the device in an extremely humid or dusty environment. This can create a fire risk or risk of electric shock.
 5. Do not cover the ventilation slots.
 6. Please remove the power cord to completely disconnect the device from the power supply. To avoid damaging the cord, pull the plug and not the cord; this could otherwise create a fire risk or risk of electric shock.
 7. Use only the supplied power cord or an identical to the one provided, with a CE mark and the suitable mark of conformity.
 8. Do not put heavy objects on the power cord. A damaged power cord can create a fire risk or risk of electric shock.
 9. Avoid allowing foreign objects or liquids to penetrate the device.
 10. If the power cord is damaged (if it has cracks, tears, or an exposed wire), ask your supplier for a replacement. Never continue to use a damaged power cord.
 11. The high voltages inside the device can be dangerous to life and limb. These can remain for some time after the device has been switched off. The device should only be opened by an experienced service technician.
 12. Any changes made to the device will invalidate the warranty.
 13. You should switch off the device as soon as possible and unplug the power cord in the event of a thunderstorm. If there is a risk of lightning, you should not touch the power cord until it is disconnected from the outlet as there is a risk of electric shock.
 14. If you notice anything abnormal – e.g. smoke, a strong smell, or noise – switch the device off immediately and unplug the power cord. Contact your retailer to find out whether a supplier is necessary. Do not continue to use the device.
 15. If replacing the fuse, use one of the same specifications. If the fuse fails again after replacement, contact your supplier to see if a repair is necessary. Do not continue to use the device.
 16. Do not clean the unit with solvent-based cleaning agents – just use a damp cloth. Unplug the unit before cleaning and wait until it is completely dry.
 17. If your device is equipped with audio transformers, place it away from other equipment which may generate potentially disruptive magnetic fields. These may cause humming sounds and other noise interference. If this occurs, place the device elsewhere.
 18. The packing material is not a toy. Children should not play with plastic bags. There is a risk of suffocation.
 19. This product is not intended to be used by individuals (including children) with limited physical, sensory or mental abilities or with limited experience and/or knowledge, unless these people are supervised by a person who will ensure their safety, or they have been properly instructed on how to use the device by such a person.
 20. Children should be supervised to ensure that they do not play with the device.
 21. Make sure that children do not insert foreign objects into the ventilation slots or holes in the back wall. There is a risk of electric shock.
-

Connections



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OUTPUT

The output of the TSM is transformer-balanced. The output is powerful enough to operate several units simultaneously. So you can use both output jacks at the same time. Connect your AD-converter and your monitor controller in parallel.

1

POWER AND FUSE

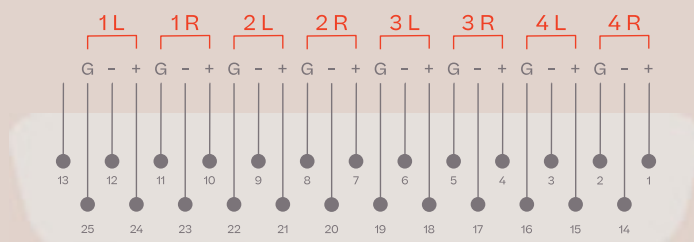
The device is equipped with an IEC socket. Use a compatible cable only. Read the Safety Instructions section for use before connecting the power cord.

Please see the Technical Data section for the appropriate fuse.

Connect the outputs of your D/A converter here.
You can also feed the inputs with any line level signal like keyboards, effect units, cd players...

Use TASCAM DB25 analog pinout compatible cables to connect your devices.
Use odd-numbered inputs as left channels and even-numbered inputs as right channels.

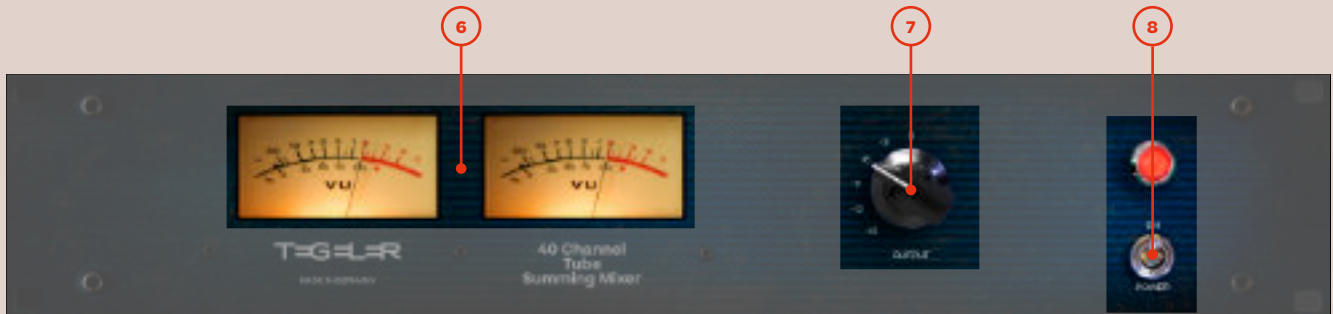
4 DB25 INPUTS 1-32



5 TRS INPUTS 33-40

If you connect only the lower jack, the signal will be panned to both stereo channels. So you can place a mono signal in the phantom center of the stereo image.

Controls



6 METER

The output level is +4 dB relative to the standard studio level. If the meter reads 0 dB, the output level is exactly +4 dB.

You will probably connect the TSM to an A/D converter. Use the input level meter of the converter to avoid overloading the input (even with short signal peaks) during recording.

Clipping of the converter input should be avoided at all costs. Keep the necessary headroom!

7 OUTPUT

With this switch you set the level at which the signal is fed into the tube stage.

If you sum up many signals, the volume of the output signal will increase.

If you mix 20 in-phase sine signals together, the output level will be much higher than the single input signal. Fortunately, music does not consist of pure sine signals, and not all instruments play all of the time.

But the output level will also increase. Therefore, you must always lower the level of the mix.

With the OUTPUT switch, you can easily reduce the output level in reproducible 3 dB steps.

8 POWER

The power switch starts up the device or switches it off.

The LED lights up during operation. To disconnect the device completely from the mains, the mains plug must be unplugged.

Technical Data

Frequency Response	20 Hz – 40 kHz
Max. Input Level	+22 dBu
Impedance Line Input	≥ 10 kOhm
Output Impedance	< 600 Ohm
Max. Output Level	+24 dBu
Dynamic	≥ 110 dB
Voltage	110 V~ – 230 V~, 50 – 60 Hz
Fuse	2 A slow-blow
Max. Power Consumption	< 25 W
Dimensions	2 U, H: 88.2 mm, W: 483 mm, D: 250 mm

Additional Information

In order to always ensure the highest audio quality, devices manufactured the Tegeler Audio Manufaktur GmbH are always adapted to match the current state of the art and technology. Changes in design, circuits, and controls are made without prior notice. For this reason, it is possible that the specifications and appearance of the device may differ slightly from those described in this document.

All brands, trademarks and registered trademarks mentioned in this document are the property of their respective owners and are used exclusively for information purposes, even when used without express identification as a registered trademark. All information is intended for personal use – commercial use of descriptions, graphics, photos, or the structure is not permitted. The published texts are protected by copyright.

Conformity

CE Declaration of Conformity

We, Tegeler Audio Manufaktur GmbH, of Weststr.1, 13405 Berlin, Germany, under the management of CEO Michael Krusch, certify and declare under our sole responsibility that the following product

Description: Audio Amplifier

Manufacturer: Tegeler Audio Manufaktur GmbH

Model: Tube Summing Mixer

conforms with the essential requirements of the following directives and standards:

- 2006/95/EEC Low Voltage
- 2004/108/EEC Electromagnetic Compatibility
- DIN EN 60065 Safety of Audio Equipment
- DIN EN 55103-1/2 Electromagnetic Compatibility of Audio Equipment

This declaration is deemed invalid in the event the device is altered without our prior written agreement.



Berlin, 01.08.2016 Michael Krusch, CEO

This product was manufactured in conformity with 2011/65/EU.

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
 2. This device must accept any interference received, including interference that may cause undesired operation.
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Canadian Interference-Causing Equipment Regulations

This apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

T=G=L=R

Contact

Tegeler Audio Manufaktur GmbH
Weststr. 1, 13405 Berlin, Germany

+49.30.49 79 26 74
contact@tegeler.com

www.tegeler.com