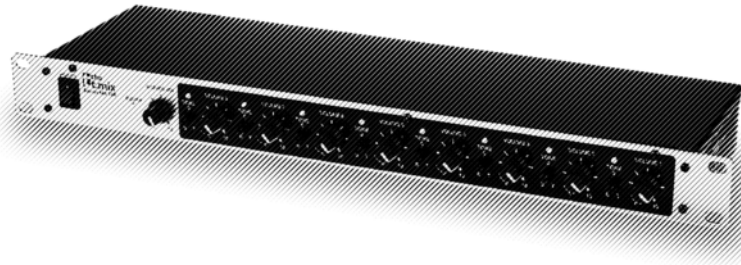


**the  
t.mix**

Source Mix 18R  
mixer



Musikhaus Thomann  
Thomann GmbH  
Hans-Thomann-Straße 1  
96138 Burgebrach  
Germany  
Telephone: +49 (0) 9546 9223-0  
E-mail: [info@thomann.de](mailto:info@thomann.de)  
Internet: [www.thomann.de](http://www.thomann.de)

16.10.2018, ID: 427376

# Table of contents

<b>1</b>	<b>General information</b> .....	<b>4</b>
	1.1 Further information.....	5
	1.2 Notational conventions.....	6
	1.3 Symbols and signal words.....	6
<b>2</b>	<b>Safety instructions</b> .....	<b>8</b>
<b>3</b>	<b>Features</b> .....	<b>12</b>
<b>4</b>	<b>Installation</b> .....	<b>13</b>
<b>5</b>	<b>Connections and controls</b> .....	<b>15</b>
<b>6</b>	<b>Technical specifications</b> .....	<b>20</b>
<b>7</b>	<b>Plug and connection assignment</b> .....	<b>22</b>
<b>8</b>	<b>Protecting the environment</b> .....	<b>25</b>

# 1 General information

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

## 1.1 Further information

On our website ([www.thomann.de](http://www.thomann.de)) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

## 1.2 Notational conventions

This manual uses the following notational conventions:



### Letterings

The letterings for connectors and controls are marked by square brackets and italics.

**Examples:** *[VOLUME]* control, *[Mono]* button.

## 1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
<b>DANGER!</b>	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
<b>NOTICE!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

## 2 Safety instructions

### **Intended use**

This device is intended to be used for amplification, mixing and playback of signals from musical instruments and microphones. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.



**Safety**



**DANGER!**

**Danger for children**

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



**DANGER!**

**Electric shock caused by high voltages inside**

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.



### **DANGER!**

#### **Electric shock caused by short-circuit**

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



### **NOTICE!**

#### **Risk of fire**

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



**NOTICE!**

**Operating conditions**

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



**NOTICE!**

**Power supply**

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

### 3 Features

- 8 microphone / line inputs with separate volume and tone controls, each with XLR and 1/4" phone sockets
- Line output
- Pre-fader output and AUX input allow multiple devices to be connected in series
- Phantom power switchable per channel
- solid metal housing, 19" rack mountable (1 RU)

## 4 Installation



### **NOTICE!**

#### **Danger of short circuit**

Switching on phantom power will damage the device if unbalanced XLR cables are connected.

Only turn on phantom power when exclusively balanced XLR cables are connected.

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

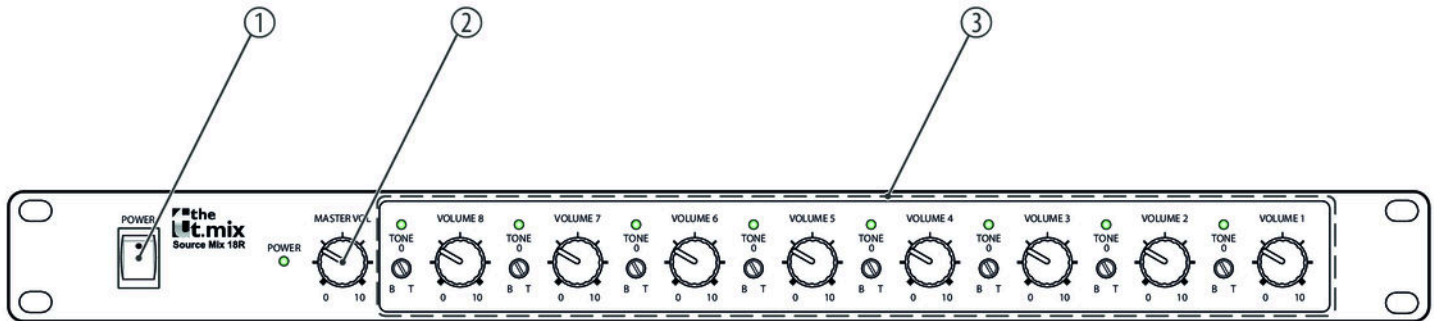
Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

### **Rack mounting**

The unit has been designed for rack mounting in a standard 19-inch rack; it occupies one rack unit.

## 5 Connections and controls

### Front panel

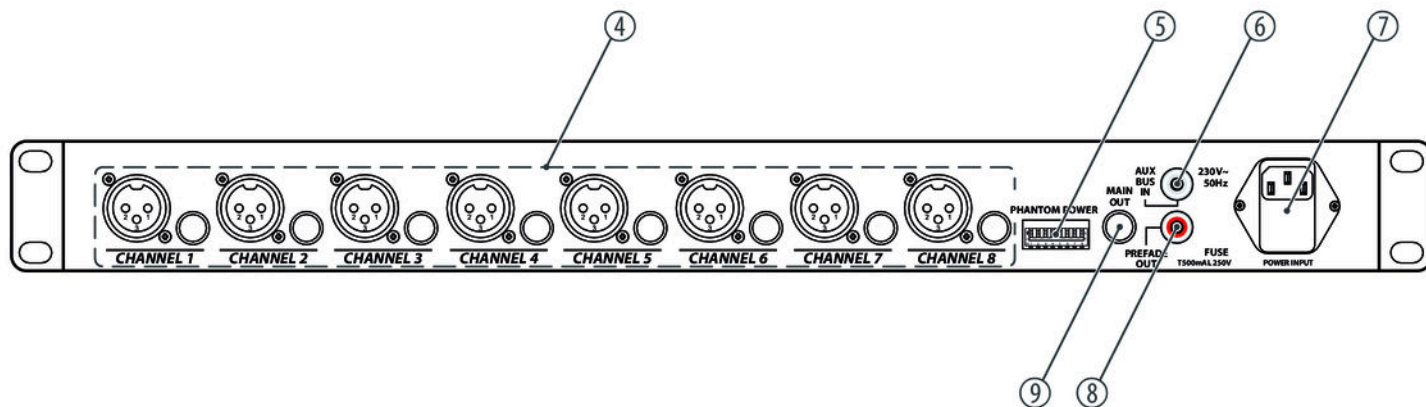


Source Mix 18R

1	<p><i>[POWER]</i></p> <p>Mains switch to turn the device on and off.</p> <p>The corresponding LED indicates that the device is switched on.</p>
2	<p><i>[MASTER VOL]</i></p> <p>Overall volume control</p>
3	<p><i>[8]...[1]</i></p> <p>Controls for the eight input channels</p> <ul style="list-style-type: none"><li>■ <i>[TONE]</i>: Tone control for the respective channel. The "0" position corresponds to the neutral position.</li><li>■ <i>[VOLUME]</i>: Level control for the respective channel</li><li>■ The LED indicates that a signal is present at the respective input.</li></ul>



Rear panel



Source Mix 18R

4	<p><i>[CHANNEL 1]...[CHANNEL 8]</i></p> <p>Signal inputs 1 to 8, each designed as lockable, balanced XLR chassis plugs and as unbalanced 1/4" phone socket.</p>
5	<p><i>[PHANTOM POWER]</i></p> <p>DIP switch for switching on phantom power for the supply of condenser microphones connected to the signal inputs.</p> <p>The phantom power leads to damage to the device if unbalanced cables are connected. Only switch on phantom power while exclusively balanced cables are connected.</p>
6	<p><i>[AUX BUS IN]</i></p> <p>Signal input for the series connection of several mixers, designed as RCA socket.</p>
7	<p><i>[POWER INPUT]</i></p> <p>IEC chassis plug for operating voltage supply with fuse holder.</p> <p>Should the fuse have blown, disconnect the unit from the power supply and replace the fuse with a new fuse of the same type.</p>

8	<i>[PREFADE OUT]</i> Signal output to connect another mixer, designed as RCA socket. The level of this output is not affected by the overall volume control.
9	<i>[MAIN OUT]</i> Signal output for connecting an amplifier or powered speaker box, designed as 1/4" phone socket.

## 6 Technical specifications

Input level (Mic / Line)	XLR connectors (balanced): max. -15 dBv
	1/4" phone socket (unbalanced): max. +22 dBv
Input impedance (Mic / Line)	XLR connectors (balanced): 600 $\Omega$
	1/4" phone socket (unbalanced): 50 k $\Omega$
Input impedance (Aux / Bus)	RCA socket: 10 k $\Omega$
Total harmonic distortion (THD)	< 0.003 %
Signal-to-noise ratio	106 dB
Common mode rejection	Mic: 52 dB
Gain	Mic: 55 dB
	Line: 26 dB
Tone control.	$\pm 20$ dB
Output level	max. +17 dBV

Output impedance	51 $\Omega$
Phantom power	12 V
Operating supply voltage	230 V ~ 50 Hz
Fuse	5 mm $\times$ 20 mm, 500 mA, 250 V, slow-blow
Dimensions (W $\times$ H $\times$ D)	482 mm $\times$ 44 mm $\times$ 125 mm
Weight	2.2 kg

## 7 Plug and connection assignment

### Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

### Balanced and unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180°.

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

**1/4" TS phone plug (mono, unbalanced)**



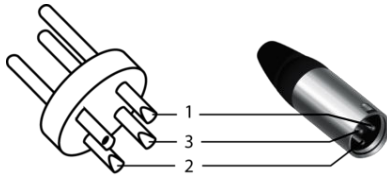
1	Signal
2	Ground, shielding

**1/4" TRS phone plug (mono, balanced)**



1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

## XLR plug (balanced)



1	Ground, shielding
2	Signal (in phase, +)
3	Signal (out of phase, -)

## RCA connection



Drawing and table indicate the pin assignment of an RCA plug.

1	Signal
2	Ground, shielding



## 8 Protecting the environment

### Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

### Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.





Musikhaus Thomann · Hans-Thomann-Straße 1 · 96138 Burgebrach · Germany · [www.thomann.de](http://www.thomann.de)