



**the
box**

Six Mix
active speaker

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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) 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
DANGER!	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.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	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 in a sound reinforcement system. 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.



CAUTION!

Possible hearing damage

The device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage.

Decrease the volume level immediately if you experience ringing in your ears or hearing impairment. If this is not possible, keep a greater distance or use sufficient ear protectors.



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.



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.

3 Features

- Active 2-way speaker and 4-channel mixer
- 6" woofer, 1" tweeter (Neodym)
- Output power 2×70 W (RMS)
- Frequency range 55 Hz ... 20 kHz
- Three mono input channels with built-in 2-band equalizer and individually switchable FX (Line, MIC)
- One stereo input channel with built-in 2-band equalizer (Line)
- Switchable phantom power
- Built-in WAV/MP3 player (sources: USB, Bluetooth, micro SD card)
- Housing with four M4 flying points

4 Installation and starting up

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.



NOTICE!

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

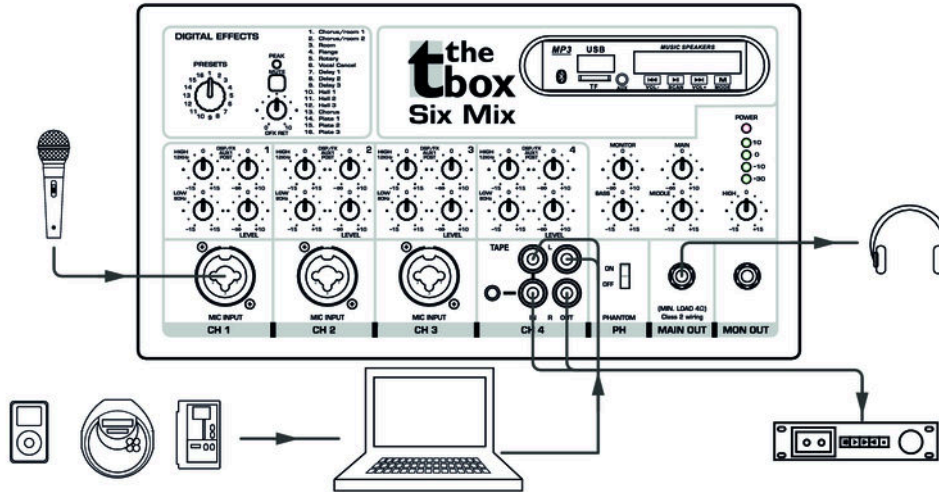
In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

Before connecting the operating voltage and before connecting or disconnecting audio cables, set all volume controls of the unit to zero to avoid damage to the connected speakers and devices.

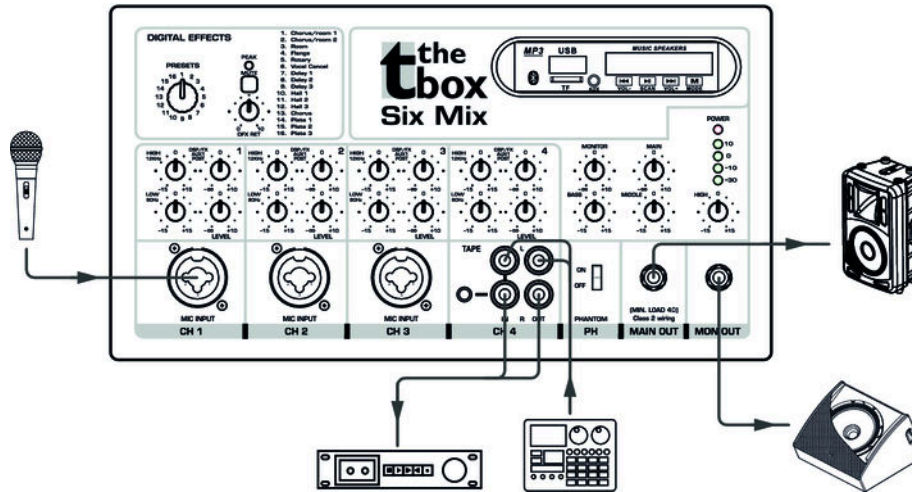
Bluetooth pairing

After switching on, the unit is detectable as *'VIRE BT'* for other Bluetooth devices and can now be paired with them.

Connection pattern 1

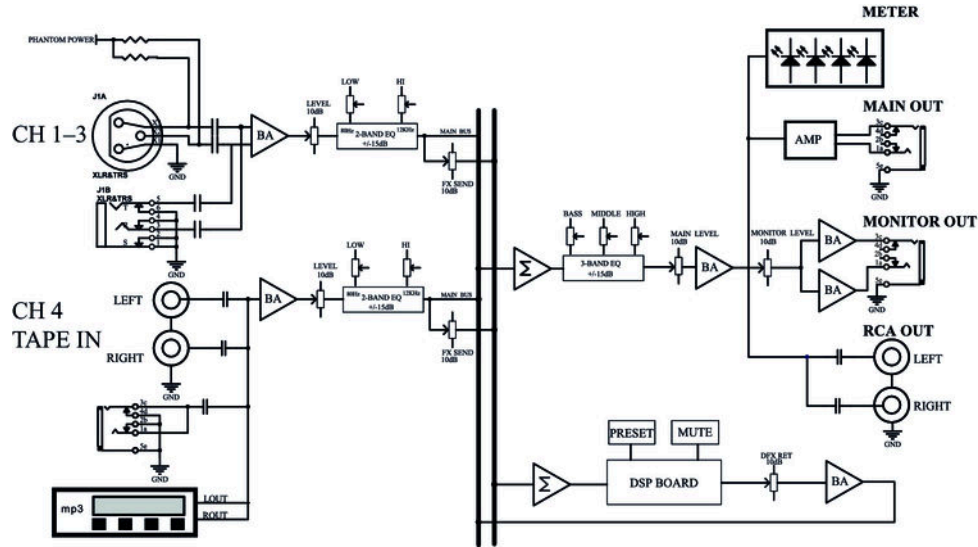


Connection pattern 2



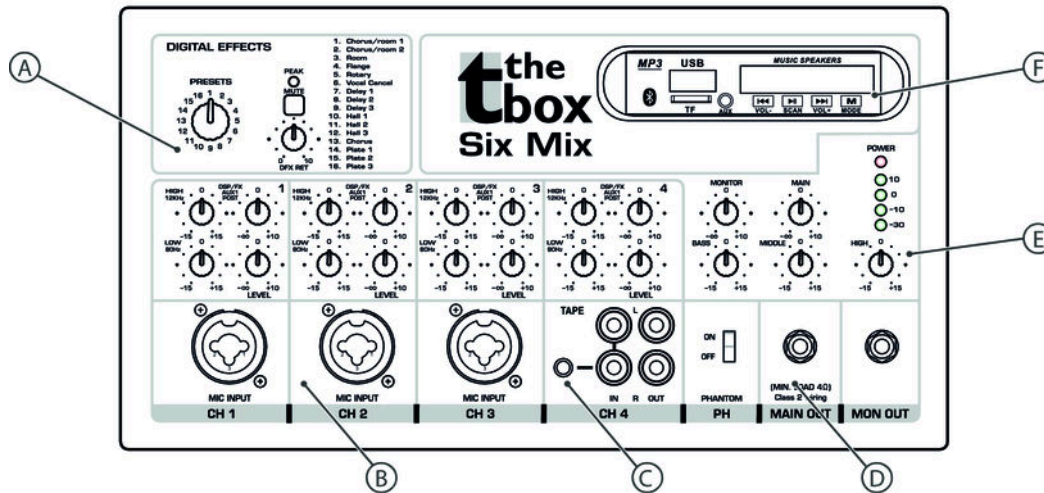
Six Mix

Block diagram

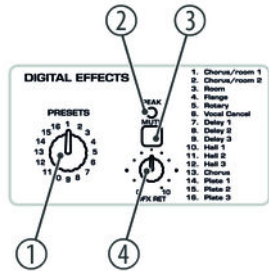


5 Connections and controls

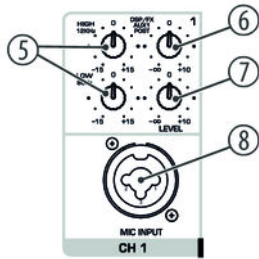
Control panel (overview)



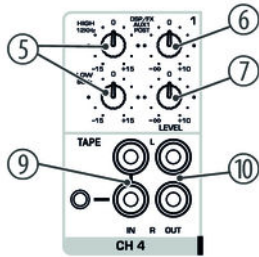
Six Mix



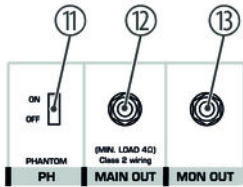
A	[DIGITAL EFFECTS]
1	[PRESETS] Rotary control to select an effect from the list on the right
2	[PEAK] Indicates overload. If the LED flickers or is lit, the input signal level is too high. The LED is also lit if the effects are muted.
3	[MUTE] Effects mute button
4	[DFX RET] Control to adjust the amount of effect in the output signal.



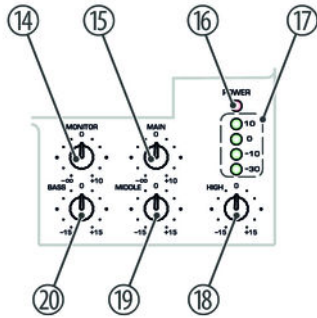
B	[CH 1], [CH 2], [CH 3]
5	<p>[HIGH]</p> <p>Equalizer: Control for adjusting the high frequencies (over 12 kHz) of each channel in a range of -15 ... +15 dB</p> <p>[LOW]</p> <p>Equalizer: Control for adjusting the low frequencies (under 80 Hz) of each channel in a range of -15 ... +15 dB</p>
6	<p>[DSP/FX AUX1 POST]</p> <p>Control for adjusting the amount of each channel for the AUX bus</p>
7	<p>[LEVEL]</p> <p>Separate volume controls for each channel</p>
8	<p>[MIC INPUT]</p> <p>Microphone inputs of channels CH1 ... CH3</p> <p>Only microphones may be connected to these inputs. When using condenser microphones, turn on phantom power with pushbutton [PHANTOM] (11).</p>



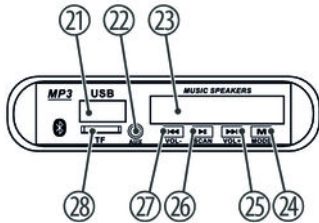
C	[CH 4]
5	<p>[HIGH]</p> <p>Equalizer: Control for adjusting the high frequencies (over 12 kHz) of each channel in a range of -15 ... +15 dB</p> <p>[LOW]</p> <p>Equalizer: Control for adjusting the low frequencies (under 80 Hz) of each channel in a range of -15 ... +15 dB</p>
6	<p>[DSP/FX AUX1 POST]</p> <p>Control for adjusting the amount of each channel for the AUX bus</p>
7	<p>[LEVEL]</p> <p>Volume control for the channel</p>
9	<p>[TAPE IN]</p> <p>Line inputs for channel 4 (3.5 mm phone socket and RCA sockets)</p>
10	<p>[TAPE OUT]</p> <p>Line output with the stereo line level output signal (Main)</p>



D	
11	<p><i>[PH]</i></p> <p>Pushbutton to turn the phantom power on/off for the XLR microphone inputs of the CH1 ... CH3</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>
12	<p><i>[MAIN OUT]</i></p> <p>1/4" phone socket (stereo) for connecting the external passive speaker boxes</p>
13	<p><i>[MON OUT]</i></p> <p>1/4" output socket (stereo) for connecting the unit to an external amplifier or an active speaker box. Here you can also connect headphones.</p>



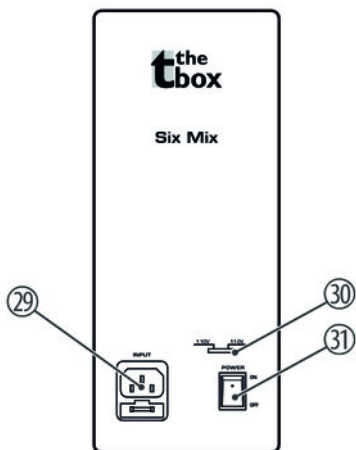
E	
14	<p><i>[MONITOR]</i></p> <p>Control to adjust the monitor volume</p>
15	<p><i>[MAIN]</i></p> <p>Overall output volume control</p>
16	<p><i>[POWER]</i></p> <p>Power indicator. This LED lights when the unit is powered and turned on.</p>
17	<p><i>[10] ... [-30]:</i> Output signal strength indicator</p> <p>If the LED <i>[10]</i> flashes, the level is too high and the amplifier may overload. If no LED lights up although a signal is present, the level is too low. To set an ideal tone, adjust the level such that the LEDs <i>[-10]</i> and <i>[0]</i> are on.</p>
18, 19, 20	<p><i>[HIGH], [MIDDLE], [BASS]</i></p> <p>Volume control for the overall output signal (Main).</p>
10	<p><i>[TAPE OUT]</i></p> <p>Line output with the stereo line level output signal (Main)</p>



F	
21	<p>[USB] USB port for external player.</p>
22	<p>[AUX] 3.5 mm phone socket (stereo) as additional signal input, p.ex. for an MP3 player</p>
23	<p>Display</p>
24	<p>[M] / [MODE] Operating mode selection</p> <ul style="list-style-type: none"> ■ 'LINE': Playback of the audio data from the SD card ■ 'bt': Playback of the audio data received via the Bluetooth interface. ■ 'USB': Playback of the audio data from the device connected via the USB port.
25	<p>▶▶ / [VOL+] Normal keystroke: Skip to next track. Keep this button pressed for about two seconds: Increase the volume.</p>

F	
26	▶▶ / [SCAN] Stop and restart playback
27	◀◀ / [VOL-] Normal keystroke: Skip to last track. Keep this button pressed for about two seconds: Decrease the volume.
28	[TF] Compartment for a micro SD card

Rear panel



29	IEC chassis plug for mains connection, with fuse holder
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30	Voltage selector
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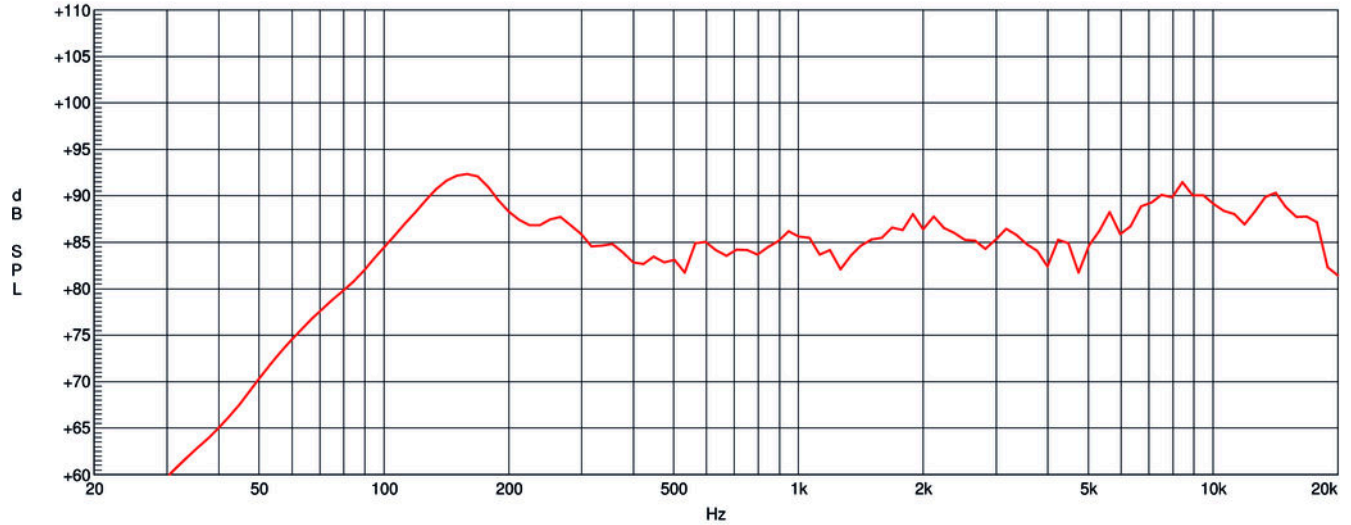
31	Main switch. Turns the device on and off
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6 Technical specifications

Inputs	3 × XLR / 1/4" phone combi socket (mono, Mic In)
	1 × 3.5 mm phone jack (stereo, Tape In)
	1 × pair of RCA sockets (L/R, Tape In)
	1 × USB
Outputs	1 × 1/4" phone socket (mono, Main Out)
	1 × pair of RCA sockets (L/R, Tape Out)
	1 × 1/4" phone socket (mono, Mon Out)
Speakers	Two-way system with 1" driver (Neodym) and 6" woofer
Frequency range	75 Hz ... 20 kHz (–6 dB)
Crossover frequency	2,4 kHz
Steepness	8 dB/octave
Sound pressure level (max.)	110 dB

Power consumption	200 W
Output power	140 W (RMS)
Voltage supply	AC 110/230 V ~ 50/ 60 Hz
Fuse	110 V: 5 mm x 20 mm, 4 A, 250 V, slow-blow 230 V: 5 mm x 20 mm, 2 A, 250 V, slow-blow
Dimensions (W x H x D)	200 mm x 320 mm x 220 mm
Weight	5.8 kg

Frequency response



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)



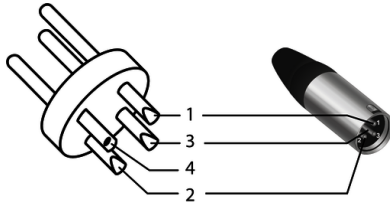
1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

**Three-pole 1/8" mini phone jack
(stereo, unbalanced)**



1	Signal (left)
2	Signal (right)
3	Ground, shielding

XLR plug (balanced)



1	Ground, shielding
2	Signal (in phase, +)
3	Signal (out of phase, -)
4	Shielding on plug housing (option)

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.



