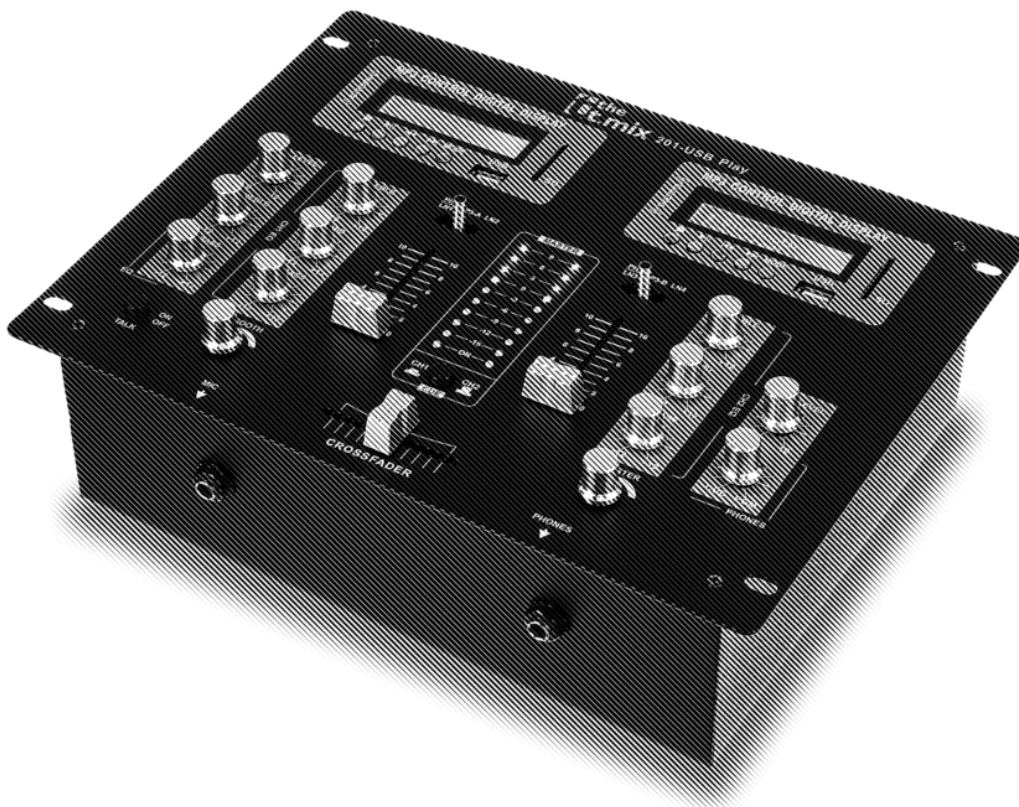


# the t.mix

## 201-USB Play mixer



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# 1 General notes

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.

### Displays

Texts and values displayed on the device are marked by quotation marks and italics.

**Examples:** *'24ch'*, *'OFF'*.



### Text input

Text inputs that are carried out on the device are indicated by typewriter font.

**Example:** 2323

### 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

- 2-channel DJ mixer with two USB / SD / Bluetooth players
- 1 × microphone input with talk over (1/4" phone jack)
- 1 × headphones output (stereo, as 1/4" phone jack)
- 2 × master outputs (XLR and RCA sockets) for left and right channel
- 1 × stereo monitor output (1/4" phone jack)
- 1 × output for recording device (RCA sockets)
- 2 × phono / line inputs (RCA sockets)
- 1 × booth output (1/4" phone jack)
- 2 × USB port for playback



## 4 Installation



### NOTICE!

#### Danger of short circuit

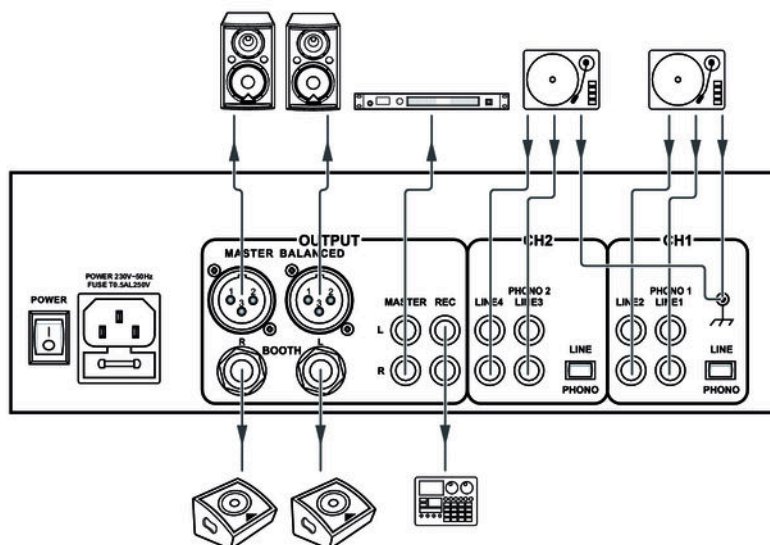
Switching on phantom power will damage the device if unbalanced XLR cables are connected.

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.

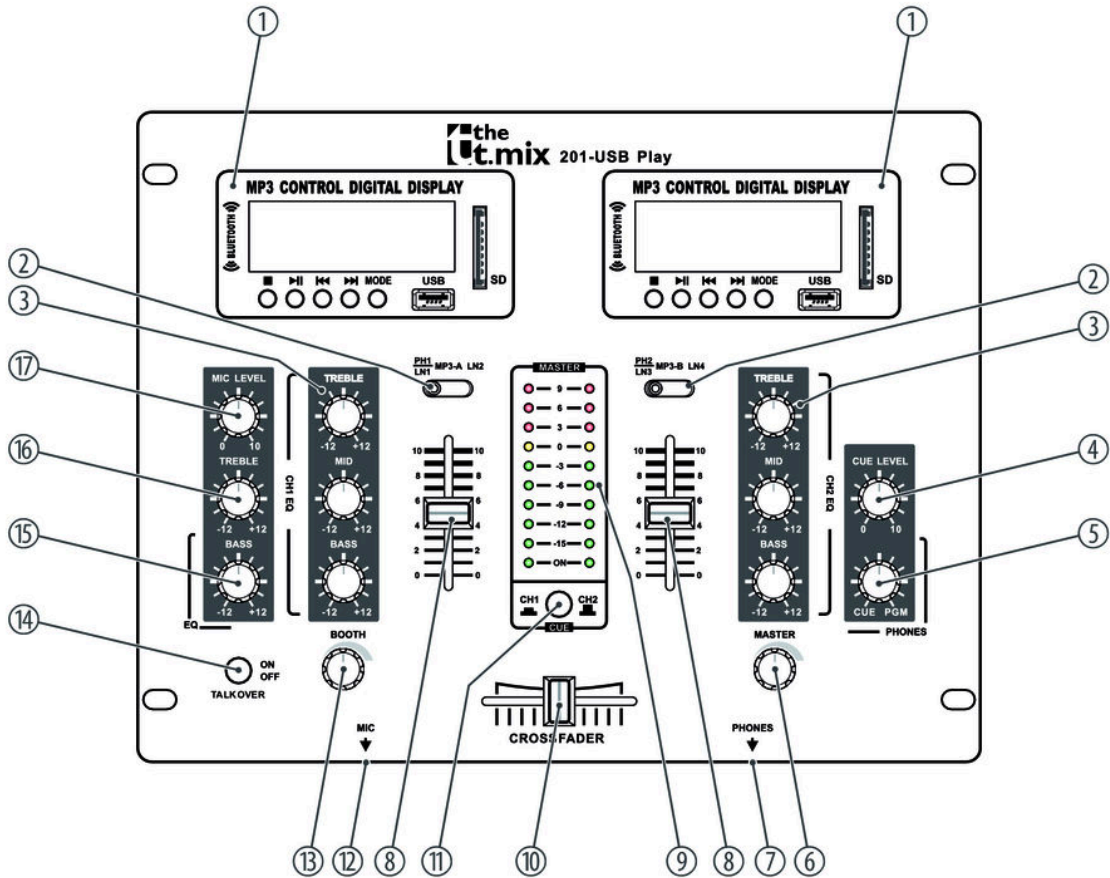
Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

### Connection options



## 5 Connections and controls

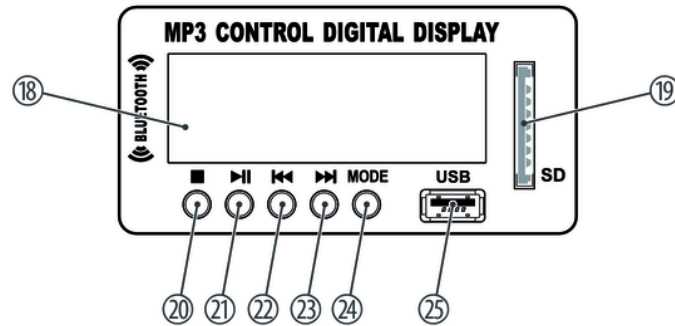
### Front panel



- |   |                                                                                                                |
|---|----------------------------------------------------------------------------------------------------------------|
| 1 | MP3 player with left and right channel display                                                                 |
| 2 | [PH1/LN1/MP3-A], [PH2/LN3/MP3-B]<br>Selector switch for selecting the input source for left and right channels |
| 3 | [CH1 EQ/CH2 EQ]<br>Rotary control for direct tone control of left and right channel (bass, mids, treble)       |
| 4 | [CUE LEVEL]<br>Rotary control for adjusting the headphones volume                                              |
| 5 | [CUE / PGM]<br>Rotary control to listen to the CUE or the active programme simultaneously or separately        |
| 6 | [MASTER]<br>Rotary control for adjusting the main out volume                                                   |

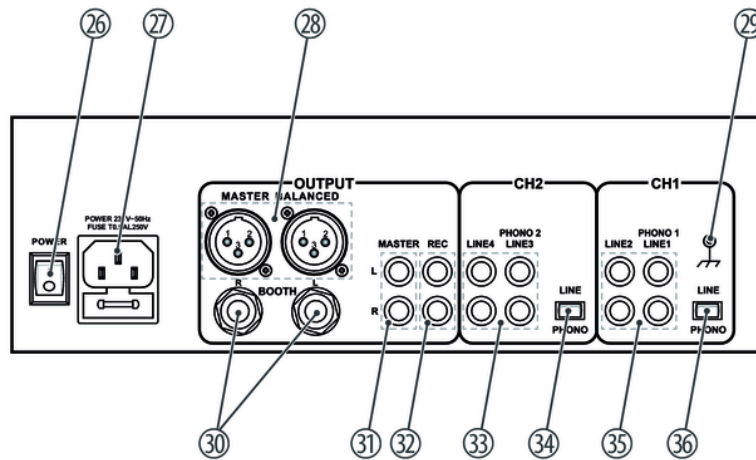
|    |                                                                                                                                                                                                                                                          |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7  | <i>[PHONES]</i><br>Monitor output for headphones, designed as 1/4" phone socket (stereo).                                                                                                                                                                |
| 8  | <i>[CHANNEL FADER]</i><br>Slider for adjusting the volume of the left and right channel                                                                                                                                                                  |
| 9  | Level meter shows the volume of the left and right channel.                                                                                                                                                                                              |
| 10 | <i>[CROSSFADER]</i><br>Slider for mixing the signals of the left and right channel. If the controller is in middle position, both channels can be heard.                                                                                                 |
| 11 | <i>[CUE]</i><br>Selects the channel that can be heard through the headphones.                                                                                                                                                                            |
| 12 | <i>[MIC]</i><br>Microphone input, designed as 1/4" phone jack.                                                                                                                                                                                           |
| 13 | <i>[BOOTH]</i><br>Rotary control to adjust the output level                                                                                                                                                                                              |
| 14 | <i>[TALK]</i><br>Enables the Talk over function<br>When the button is pressed in the ON position, all other signal sources are attenuated by 14 dB, so that the microphone is clearly audible. In OFF position, all signals retain their original level. |
| 15 | <i>[BASS]</i><br>Rotary control for adjusting the low frequencies of the microphone input.                                                                                                                                                               |
| 16 | <i>[TREBLE]</i><br>Rotary control for adjusting the high frequencies of the microphone input.                                                                                                                                                            |
| 17 | <i>[MIC LEVEL]</i><br>Rotary control for adjusting the volume of the microphone input.                                                                                                                                                                   |

## Display



|    |                                                                                                                                                                     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 | Display                                                                                                                                                             |
| 19 | [SD]<br>SD card slot. Before ejecting, pause SD card playback or select another playback source (USB or Bluetooth).                                                 |
| 20 | ■<br>Stops playback                                                                                                                                                 |
| 21 | ▶  <br>Starts or pauses playback                                                                                                                                    |
| 22 | ◀◀<br>Selects the previous track for playback                                                                                                                       |
| 23 | ▶▶<br>Selects the next track for playback                                                                                                                           |
| 24 | [MODE]<br>Selecting the playback source (USB, SD, Bluetooth). To connect to a Bluetooth device, use the name 'Bluetooth' and the password 0000.                     |
| 25 | [USB]<br>Connection for recording or playback via a USB device. Before ejecting, pause USB stick playback or select another playback source (SD card or Bluetooth). |

## Rear panel



|       |                                                                 |                                                                                                                              |
|-------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 26    | [Power]                                                         | Main switch. Turns the device on and off.                                                                                    |
| 27    | IEC chassis plug for operating voltage supply with fuse holder. | Should the fuse have blown, disconnect the unit from the power supply and replace the fuse with a new fuse of the same type. |
| 28    | [MASTER BALANCED]                                               | Master output for connecting an amplifier or active speaker, designed as XLR sockets for left and right channels             |
| 29    | Grounding screw to reduce hum noise when connecting turntables  |                                                                                                                              |
| 30    | [BOOTH]                                                         | Output for connecting to amplifiers or other audio devices, designed as 1/4" phone jacks                                     |
| 31    | [MASTER]                                                        | Output for connection to an amplifier or active speaker, designed as RCA sockets for left and right channels                 |
| 32    | [REC]                                                           | Output for connection to a recording device, designed as RCA sockets for left and right channels                             |
| 33.35 | [PHONO / LINE INPUTS]                                           | Inputs for signals with phono or line level, designed as RCA sockets                                                         |
| 34.36 | [PHONO / LINE INPUTS SWITCH]                                    | Switch for selecting between phono and line level                                                                            |

## 6 Technical specifications

|                                      |                                                                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Inputs                               | Microphone: 3 mV / 2.2 k $\Omega$<br>Phono: 3.2 mV / 47 k $\Omega$<br>Line: 150 mV / 47 k $\Omega$                                        |
| Outputs                              | Main: 0 dB / 1 V, 600 $\Omega$<br>Booth: 0 dB / 1 V, 600 $\Omega$<br>Rec: -5 dB / 0.5 V, 600 $\Omega$<br>Phone: 300 mW / 16...32 $\Omega$ |
| Tone control (bass, mids, treble)    | -12 dB...+12 dB                                                                                                                           |
| Frequency range                      | 20 Hz...20 kHz, $\pm$ 2 dB                                                                                                                |
| Signal-to-noise ratio                | > 104 dB                                                                                                                                  |
| THD                                  | < 0.02 %                                                                                                                                  |
| Operating supply voltage             | 230 V ~ 50 Hz                                                                                                                             |
| Fuse                                 | 5 mm $\times$ 20 mm, 0,5 A, 250 V, slow-blow                                                                                              |
| Dimensions (W $\times$ H $\times$ D) | 310 mm $\times$ 115 mm $\times$ 235 mm                                                                                                    |
| Weight                               | 2.75 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)



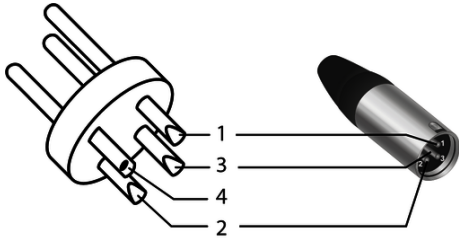
|   |                   |
|---|-------------------|
| 1 | Signal            |
| 2 | Ground, shielding |

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



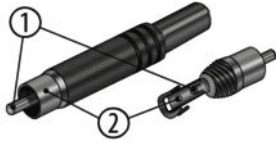
|   |                          |
|---|--------------------------|
| 1 | Signal (in phase, +)     |
| 2 | Signal (out of phase, -) |
| 3 | Ground                   |

## XLR plug (balanced)



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

### Fan grids

The fan grids of the device must be cleaned on a regular basis to remove dust and dirt. Before cleaning, switch off the device and disconnect AC-powered devices from the mains. Use a lint-free damp cloth for cleaning. Never use solvents or alcohol for cleaning.

## 9 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.



