



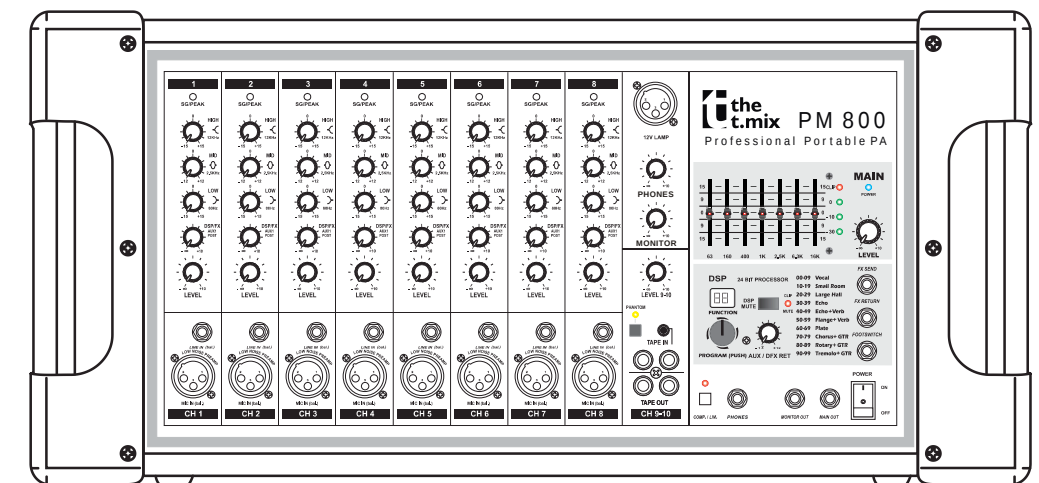
User's Manual

***POWERED MIXERS
THE T.MIX PM 800***



THE MUSIC GEAR

**THE
SERIES**



Important Safety Instructions



This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions.

Please read.



Protective Ground Terminal



AC mains (Alternating Current)



AC mains (Alternating Current)

ON:

Denotes the product is turned on.

OFF:

Denotes the product is turned off.

WARNING

Describes precautions that should be observed to prevent the possibility of death or injury to the user.



CAUTION

Describes precautions that should be observed to prevent damage to the product.

Disposing of this product should not be placed in municipal waste but rather in a separate collection.

WARNING

Power Supply

Ensure that them a inssource voltage (AC outlet) matches the voltage rating of the product. Failure to do so could result in damage to the product and possibly the user. Unplug the product before electrical storms occur and when unused for long periods of time to reduce the risk of electric shock or fire.

External Connection

Always use proper ready-made insulated mains cabling (power cord). Failure to do so could result in shock/death or fire. If in doubt, seek advice from a registered electrician.

Do Not Remove Any Covers

Within the product are areas where high voltages may present. To reduce the risk of electric shock do not remove any covers unless the AC mains power cord is removed. Covers should be removed by qualified service personnel only.

No user serviceable parts inside.

Fuse

To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

Protective Ground

Before turning the unit ON, make sure that it is connected to Ground. This is to prevent the risk of electric shock.

Never cut internal or external Ground wires. Like wise, never remove Ground wiring from the Protective Ground Terminal.

Operating Conditions

Always install in accordance with the manufacturer's instructions.

To avoid the risk of electric shock and damage, do not subject this product to any liquid/rain or moisture.

Do not use this product when in close proximity to water.

Do not install this product near any direct heat source.

Do not block areas of ventilation. Failure to do so could result in fire.

Keep product away from naked flames.

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions

Follow all instructions

Keep these instructions. Do not discard.

Heed all warnings.

Only use attachments / accessories specified by the manufacturer.

Power Cord and Plug

Do not tamper with the power cord or plug. These are designed for your safety.

Do not remove Ground connections!

If the plug does not fit your AC out let seek advice from a qualified electrician.

Protect the power cord and plug from any physical stress to avoid risk of electric shock.

Do not place heavy objects on the power cord. This could cause electric shock or fire.

Cleaning

When required, either blow off dust from the product or use a dry cloth.

Do not use any solvents such as Benzol or Alcohol.

For safety, keep product clean and free from dust.

Servicing

Refer all servicing to qualified service personnel only.

Do not perform any servicing other than those instructions contained within the User's Manual.

**PORTABLE
CART WARNING**



Carts and stands - The component should be used only with a cart or stand that is recommended by the manufacturer.

A component and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the component and cart combination to overturn.

NOTES

THE guarantees the normal operation of the product against any defect of manufacture and / or vice of material, by the term of (12) months, counted as of the date of purchase on the part of the user, committing itself to repair or to change, to its election, without position some, any piece or component that will fail in normal conditions of use within the mentioned period.

This guarantee is valid if the original buyer will have to present/display this certificate properly sealed and signed by the selling house, accompanied by the corresponding invoice of purchase where it consisted the model and serial number of the acquired equipment.

The guarantee does not cover:

- Damages caused by the illegal use of the product, repair and/or nonauthorized modification conducted by people by **THE** .
- Damages caused by the connection of the equipment to other equipment different from the specified ones in the manual of use, or by bad connection to these last ones.
- Damages caused by electrical storms, blows and/or incorrect transport.
- Damages caused by excesses or falls of tension in the network or by connection to networks with a tension different from the required one by the unit.
- Damages caused by the presence of sand, acid of batteries, water, or any strange element inside the equipment.
- Deteriorations produced by the course of the time, use and/or normal wear of the unit.
- Alteration or absence of the serial number of factory of the equipment.

The repairs could only be carried out the authorized technical service by **THE** , that will inform about the term and other details into the repairs to take place according to this guarantee.

THE , will repair this unit in counted a term nongreater to 30 days as of the date of entrance of the unit to the Technical Service. In those cases in that due to the particularity of the spare part, outside necessary their import, the repair time and the viability of the same one will be subject to the effective norms for the import of parts, in which case one will inquire to the user about the term and possibility into repair.

With the object of its correct operation, and of the validity of this one guarantee, this product will have to be installed and to be used according to the instructions that are detailed in the manual associate or the package of the product.

This unit will be able to appear for its repair, next to the invoice of purchase (or any other proof where the date of purchase consists), to its authorized distributor Topp Pro or an authorized technical center on watch by **THE** .

Exclusion of damages:

THE RESPONSABILITY OF **THE** BY ANY DEFECTIVE PRODUCT IS LIMITED THE REPAIR OR THE REPLACEMENT OF HE HIMSELF, TO TOPP OPTION PRO. IF WE CHOSE TO REPLACE THE PRODUCT, THE REPLACEMENT CAN BE A RECONDITIONATED UNIT. TOPP PRO WILL NOT BE RESPONSIBLE BY THE DAMAGES BASED ON THE LOST, INCONVENIENCE, LOSS OF USE, BENEFITS, LOST SAVINGS, BY THE DAMAGE TO OTHER EQUIPMENT OR OTHER ARTICLES IN THE USE SITE, OR BY ANY OTHER DAMAGE IF HE IS FORTUITOUS, CONSEQUENT OR OF ANOTHER TYPE, ALTHOUGH TOPP PRO HAS BEEN NOTICED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow to the exclusion or the limitation to the fortuitous or consequent damages, so the aforesaid limitation can not be applied to you.

This guarantee gives specific legal rights him, you can also have other right that varies of state to state.

Index

1. Introduction	4
2. Features	4
3. Usefull Data	4
4. Control Elements	5
5. Installation Tips	10
6. Connecting Diagram	10
7. Wire Connections	11
8. Preset List	12
9. Block Diagram	13
10. Technical Specifications	14
11. GUARANTEE	16
12. NOTES	17

Introduction

Thank you for purchasing the THE T.MIX PM 800

The THE series of powered mixers are designed to be rugged, powerful and filled with quality features that would usually be found in much larger systems.

The 250 series are all built with the same powerful 250 Watt power amplifier and are available with 8 channel configurations.

Please read this manual carefully so you can take advantages of all the features of the **THE Series**.

Thanks again for choosing **THE**.

Features

- 250 W / 4 Ohm amplifier mono
- 8 line inputs through 1/4" jacks
- 8 line balanced MIC inputs through XLR jacks
- 3-band channel EQ
- Monitor and effect sends on each input channel
- 1 AUX input; 3.5 Ø Mp3 input; 2 RCA inputs
- 7-band graphic equalizers / 100 DSP effects
- Signal/Peak indicator on channel 1~8
- Tape input with level control for recording level matching
- 4-segment LED display for monitoring the output signals
- Foot switch jack for control of DSP on/off
- Tape in and tape out jacks for recording and play back
- Main and monitor line out jacks
- Mains power can switchable between 110V~127V and 220V~240V
- Built-in feedback LOCATOR

Usefull Data

Please write your serial number here for future reference.

Serial Number:

Date of Purchase:

Purchased at:

Technical Specifications

Model Number

THE T.MIX PM 800

Input Channels

Microphone Input	Electronically balanced, discrete input
Frequency response	20Hz to 20kHz, ± 3 dB
Gain	50dB
Line Input	Electronically balanced
Frequency Response	20 Hz to 20kHz, ± 3 dB
Gain	20dB

Impedance

Microphone input	1.5K Ohm
All other input	10 kOhm or greater
Tape out	1 kOhm
All other outputs	120 Ohm

Equalization

Hi shelving	± 15 dB @ 12kHz
Mid shelving	± 12 dB @ 2.5kHz
Low shelving	± 15 dB @ 80Hz
Graphic EQ	7-band, 4/3 Octave

DSP section

A/D and D/A converters	24 Bit
DSP resolution	24 Bit
Type of effects	Vocal, Small Room, Large Hall, Echo, Echo+Verb, Flanger +Verb, Plate, Chorus+GTR, Rotary+GTR, Tremolo+GTR
Presets	100

Main Mix Section

Noise (Bus noise)	Fader 0 dB, channels muted:-85dBr (ref.: +4dBu) Fader 0 dB, all input channels assigned and set to UNITY gain:-81dBr (ref.: +4dBu)
Monitor Max out	+22dBu unbalanced, 1/4" jacks
FX Sends Max out	+22dBu unbalanced, 1/4" jacks

THD

THD<0.5% at 1 watt Output Power THD<1% at 250 watt Output Power

S/N

SNR(signal to noise ratio)set output Line to 1KHz	>65dB
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Static PowerConsumption

No Output power state at 230V	<50W
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Power Amplifier

Output power	250W RMS at 1kHz THD=1%, Load=40hm
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Sectin

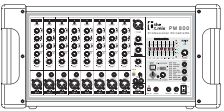
Frequency Response	20 Hz ~ 20 kHz, ± 3 dB
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Power Source

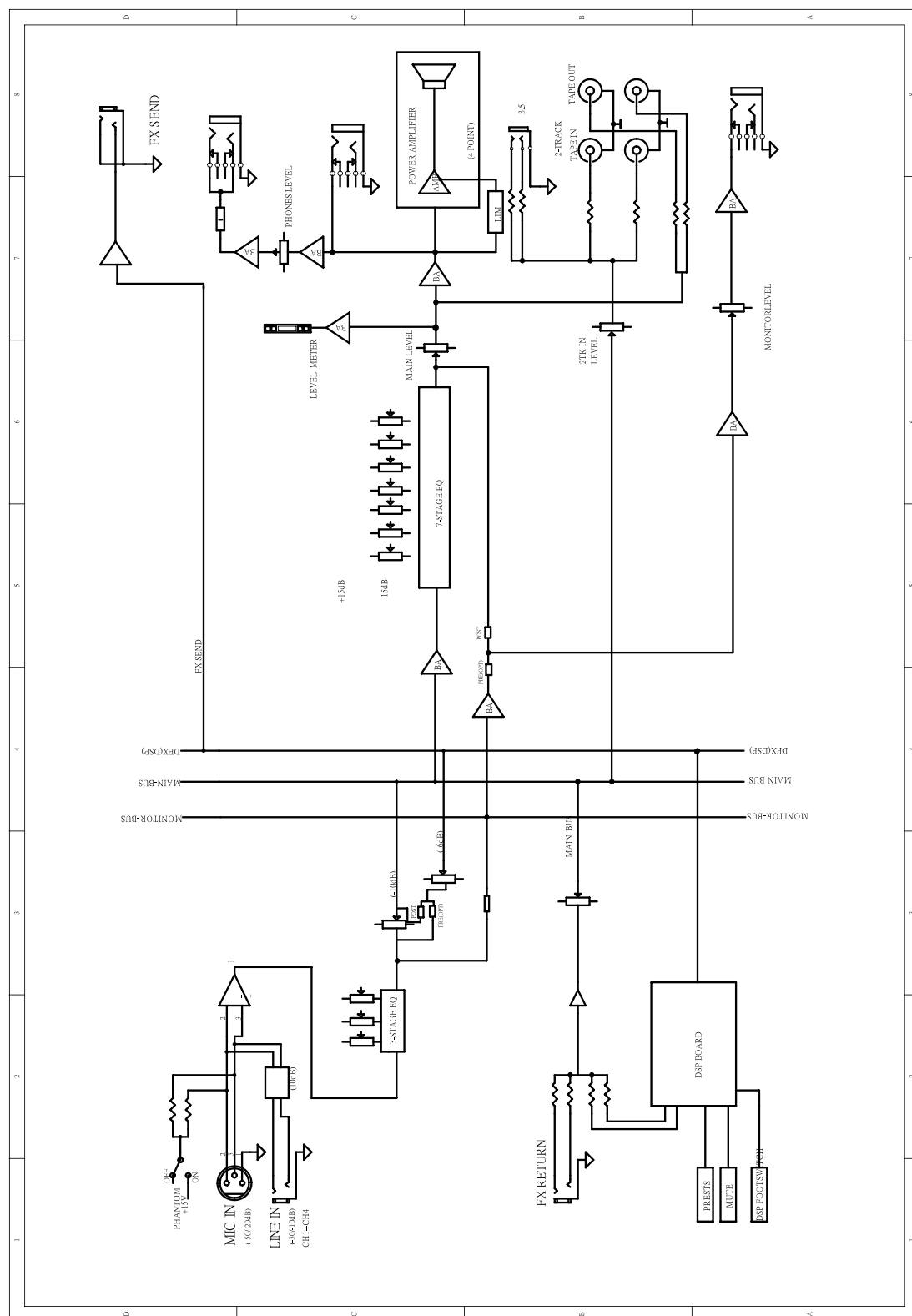
220~240V/110~127V~50/60Hz

Physical

Dimensions	THE T.MIX PM 800	540*265*256mm(21.3"x10.4"x10.0")
Net Weight	THE T.MIX PM 800	10.9Kg(24.0lbs)



Block Diagram



Control Elements

4.1 FRONT PANEL

PEAK/SIGNAL LED (1)

This LED will illuminate green when there is a signal present in the LINE / MIC input. When the signal nears clipping the LED will turn to red.

MONO INPUT CHANNELS (2)

CH1 to CH8. You can connect balanced, low impedance microphones or a low level signal to the XLR socket. Use the 1/4" TRS (LINE IN) jack you can connect either a microphone or a line level instrument such as synthesizers, drum machines, effect processors or any other line level signal.

Note: You shall never connect an unbalanced microphone to the XLR socket if you do not want to damage both the microphone and the mixer.

+15V PHANTOM POWER SWITCH AND WORKING INDICATOR (3)

This switch will apply +15 Volt Phantom Power only to the XLR sockets. When these XLR sockets are connected with devices that not require Phantom Power, please make sure the Phantom Power is turned off, failure to close may damage the device.

When pressing Phantom Power switch, the indicator lights up; it means that Phantom Power is working. When pressing Phantom Power switch again, the indicator is extinguished.

DSP/FX AUX POST CONTROL (4)

This control is configured as POST-FADER, so the audio signal will be affected by channel level control. Via the FX SEND socket, the AUX1 signal can be an external effect device.

LEVEL CONTROL (5)

This control is used to adjust the overall level of the respective channel. The adjustable range goes from $-\infty$ to +10 dB.

3-BAND EQUALIZER

3-band equalizer is provided for all input channels with a wide range of frequency adjustment.

HIGH (6)

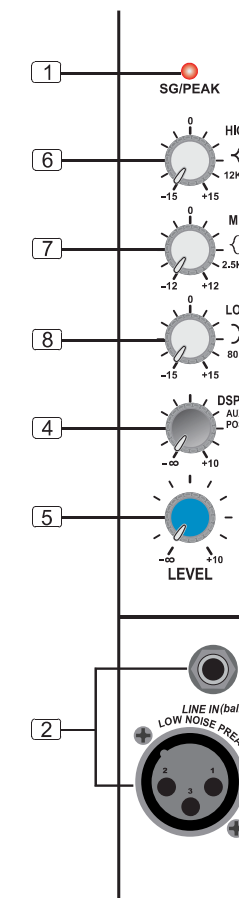
This is the treble control. You can use it to get rid of high frequency noises or to boost the sound of cymbals or high harmonics of the human voice. The gain range goes from -15 dB to +15 dB with a center frequency of 12 kHz.

MID (7)

This is the mid range control. It can affect most fundamental frequencies of all musical instruments and human voice. An attentive use of this control will give you a very wide panorama of sound effects. The gain range goes from -12 dB to +12 dB and the center frequency is 2.5 kHz.

LOW (8)

This is the bass control. It is used to boost male voice, kickdrum or bass guitar. Your system will sound much bigger than what it is. The gain range goes from -15 dB to +15 dB and the center frequency is 80 Hz.



3.5Ø JACK (9)

This insert can be used to connect with computer, Mp3, Mp4 or CD players.

LEVEL (10)

This control used to adjust the level of TAPE IN and 3.5Ø jack signal simultaneously. The adjustable range goes from $-\infty$ to +10 dB.

TAPE IN (11)

The unit features dual RCA jacks (left and right). If you wish to listen to your monitor from a tape recorder, DAT or cassette, please use these tape input jacks.

TAPE OUT (12)

Via these jacks, you can route the main output signal into a tape recorder or DAT for recording.

LAMP SOCKET (13)

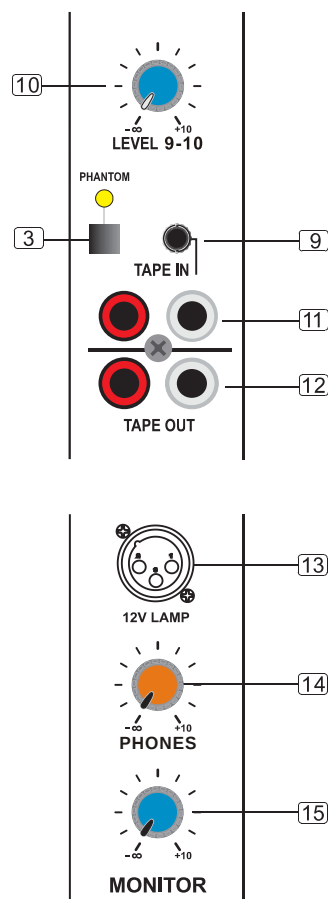
A BNC-TYPE lamp socket is provided for use with a gooseneck lamp. There are 3 pins for the socket, 1 are grounding pins. 2 is positive terminal.

PHONES (14)

Rotate these knobs to adjust the stereo level of the PHONES output separately, which can be varied from $-\infty$ to MAX.

MONITOR LEVEL CONTROL (15)

This control is used to adjust the level of monitor output.

**GRAPHIC EQ (16)**

Your THE T.MIX PM 800 is equipped with a graphic equalizer, and provides 7-band fader controls and feedback locator function. Via these faders, you can boost or attenuate the selected frequency by 15dB at a preset bandwidth. When all faders are at the center position, the output of the equalizer is at flat response. They are used to modify the frequency "contour" of a sound. The EQ function will be activated automatically as soon as you operate your unit.

The automatic feedback locator function will be activated in main mix signal path.

When a frequency band fader lights up, it means the level of this frequency band is too high, i.e. there is a little feedback occurring in this frequency band, which may result in unpleasant speaker "howling" or "whistling". In this case, in order to eliminate feedback, you need to turn down the corresponding fader.

OUTPUT LEVEL LED (17)

This 4-segment LED meter is used to indicate the output level.

POWER LED (18)

This LED lights up when the unit is powered on.

LEVEL CONTROL (19)

This control is used to adjust the output level. The adjustable range goes from $-\infty$ to +10dB.

DSP SECTION WITH 24 BITS DIGITAL EFFECTS

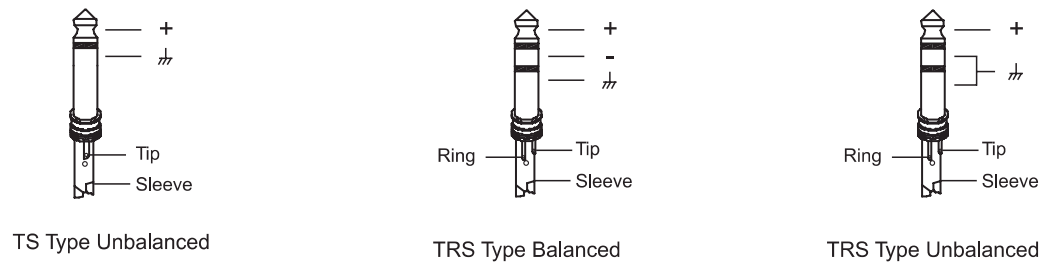
The THE T.MIX PM 800 features a special 100-preset digital effect. For further details please refer to the following content.

No	Preset	Description	Parameter
00~09	Vocal	Simulate a small space	Rev. decay time: 0.8~0.9s Pre-delay: 0~45ms
10~19	Small Room	Simulate a bright studio room	Decay time: 0.7~2.1s Pre-delay: 20~45ms
20~29	Large Hall	Simulate a large acoustic space	Decay time: 3.6~5.4s Pre-delay: 23~55ms
30~39	Echo	Echo / Delay effect	Delay time: 145~205 ms
40~49	Echo + Verb	Echo & Reverb combination	Delay time: 208~650ms Decay time: 1.7~2.1s
50~59	Flange + Verb	Flanger effect & Reverb combination	Decay time: 1.5~2.9ms Rate: 0.8Hz~2.52 Hz
60~69	Plate	Simulates classic bright vocal plate	Decay time: 0.9s~3.6s
70~79	Chorus+GTR	Guitar Effect: Chorus	Rate: 0.92 Hz~1.72Hz
80~89	Rotary+GTR	Guitar Effect: Rotary	Modulation depth: 20% - 80%
90~99	Tremolo+GTR	Guitar Effect: Tremolo	Rate: 0.6Hz~5Hz

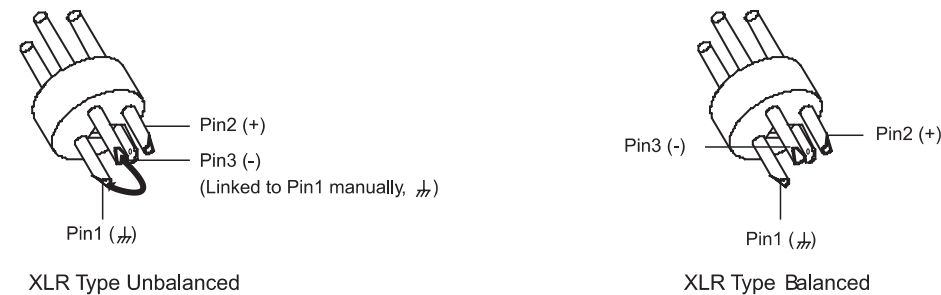
Wire Connections

Either the 1/4" TRS phone jack or XLR connector can be wired in balanced and unbalanced modes, which will be determined by the actual application status, please wire your system as the following wiring examples:

For 1/4" Phone jack



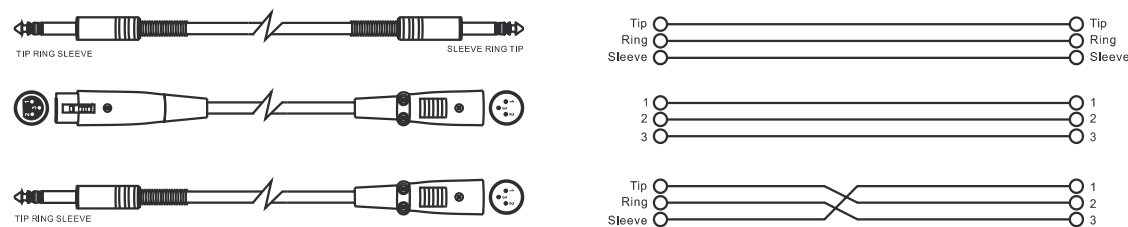
For XLR connector



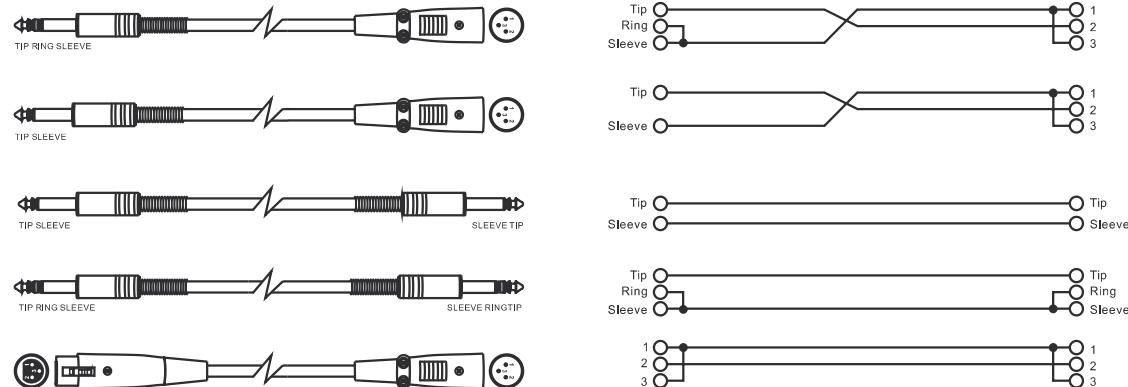
In-line Connection

For these applications the unit provides 1/4" TRS and XLR connectors to easily interface with most professional audio devices. Follow the configuration examples below for your particular connection.

• Balanced



• Unbalanced



Control Elements

DISPLAY (20)

Displays the selected preset.

PROGRAM (PUSH) (21)

Adjust this knob to select the right effect you wish to perform. There are a total of 100 options for you: Echo, Vocal, Plate and versatile two-effect combination. When you are satisfied with the chosen preset, please push this knob to confirm this preset.

DSP MUTE SWITCH (22)

This switch is used to activate/deactivate the effect facility. Sometimes, you can also use the FOOT SWITCH jack for convenient operation.

CLIP/MUTE LED (23)

This LED lights up when the input signal is too strong. In case of the digital effect module being muted, this LED also light up.

AUX/DFX RET (24)

This control is used to adjust the volume of FX RETURN and MAIN OUTPUT effect.

FX SEND (25)

This jack is used to send out the signal from AUX bus.

FX RETURN (26)

This jack is used to return the sound of an effect unit to the main mix. You can also use it as an extra auxiliary input.

COMP/LIM SWITCH AND INDICATOR (27)

Set the COMP/LIM switch to ON position in order to prevent your signals to exceed a level threshold that would cause distortion. This switch is user defeatable and can be in the ON or OFF position depending on your preference.

When pressing COMP/LIM switch, if the input signal do not reach a level threshold; the indicator illuminates in green state. When the input signal is too strong and exceed a level threshold, the indicator turns to red.

FOOTSWITCH (28)

You can connect an external footswitch to turn the onboard effect module on / off, via the 1/4" phone jack.

MONITOR OUTPUT (29)

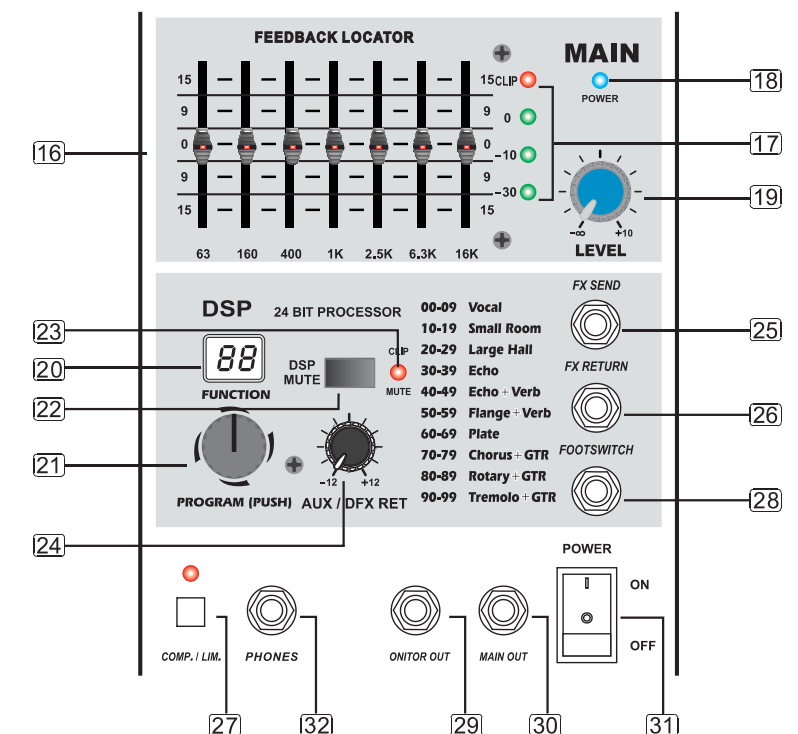
This jack is used to connect the input of an external monitor amplifier or active monitor speaker.

MAIN OUTPUT (30)

This jack is used to output the main mix signal to an external unit.

POWER SWITCH (31)

This switch used to turn on / off the power of the unit.



4 Control Elements

PHONES (32)

These sockets will send out the monitor signal to a pair of headphones.

4.3 REAR PANEL

OUTPUT (33)

These connectors are used to output the signal to the speaker. The minimum speaker load is 2 ohms.

AC INLET (34)

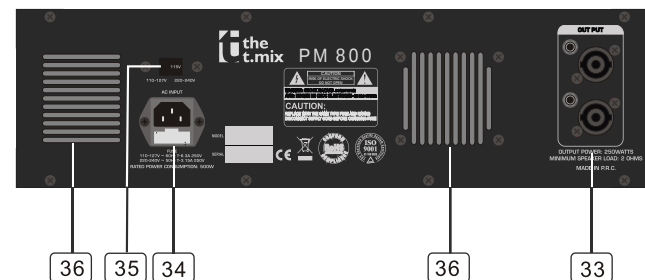
Standard IEC receptacle, connect your THE T.MIX PM 800 to mains with the supplied power cord.

VOLTAGE SELECTOR (35)

There are two kinds of voltages for your operation. From this switch you can select the voltage at 110V~127V or 220V~240V.

VENTS (36)

These vents are used for ventilation and heat dissipation.



5 Installation Tips

- 1- Speakers should be placed in a position that allows for unobstructed sound projection. In many instances it is beneficial for speakers to be elevated on tripod stands to achieve maximum dispersion and reach.
- 2- Use professional advice or service when hanging and installing speakers. Please take precautions to secure them to prevent them from falling and hurting someone. Care should be taken as to not damage the cabinet or its components. Please comply with all pertinent Regulations.
- 3- Use quality cables. Using quality cables will ensure the best possible sound.
- 4- For best results match the speakers to a good amplifier that matches the wattage and impedance of your speakers. Proper amplification power results in good quality audio and longer component life. Check out the power requirement for your cabinet.
- 5- Avoid pointing a microphone directly at an amplified speaker doing so, could cause feedback possibly damaging speaker components and your hearing.

Enjoy the sound!

6

Connecting Diagram

Make all initial connections with all the equipment powered off, and make sure that the main volume controls are turned down completely.

- 1) With a high quality signal line connect a CD player or other players to the powered mixer.
- 2) Using the speaker cable connect the INPUT of the two passive speakers to the OUTPUT of the powered mixer.
- 3) Complete other connections as illustrated. And then turn the power on.
- 4) Turn up the volume controls of the powered mixer to about 70%.
- 5) Use the mixer PFL function of the powered mixer to get the proper input level, and adjust the Main Mix Level control to manipulate the output level.

