



Power Dynamics PDM-Series Powered Music Mixers Instruction Manual

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PDM-Series Powered Music Mixers



Product Information

The PDM-Series Powered Music Mixers are professional-grade audio mixers designed for use in live sound applications. These mixers come in three different models: Ref. nr. 172.610, Ref. nr. 172.612, and Ref. nr. 172.614. They are built with high-quality components and are designed to deliver clear, powerful sound. The mixers are equipped with a range of features, including multiple input channels, built-in effects, and EQ controls. They also feature durable housing and are designed for easy transport and setup.

Product Usage Instructions

1. Before using the unit, read the instruction manual thoroughly to understand all features.
2. Consult a specialist before using the unit for the first time.
3. Do not open the housing as it contains voltage-carrying parts.
4. Avoid placing metal objects or pouring liquids into the unit as this may cause electrical shock and malfunction.
5. Avoid placing the unit near heat sources and on a vibrating surface. Do not cover the ventilation holes.
6. The unit is not suitable for continuous use.
7. Be careful with the mains lead and do not damage it. A faulty or damaged mains lead can cause electrical shock and malfunction.
8. When unplugging the unit from a mains outlet, always pull the plug, never the lead.
9. Do not plug or unplug the unit with wet hands.
10. If the plug and/or the mains lead are damaged, they need to be replaced by a qualified technician.
11. If the unit is damaged to such an extent that internal parts are visible, do NOT plug the unit into a mains outlet, and DO NOT switch the unit on. Contact your dealer. Do NOT connect the unit to a rheostat or dimmer.
12. Do not expose the unit to rain and moisture to avoid fire and shock hazards.
13. All repairs should be carried out by a qualified technician only.
14. Connect the unit to an earthed mains outlet (220-240Vac/50Hz) protected by a 10-16A fuse.
15. Unplug the unit from the mains during thunderstorms or if it will not be used for a long period of time.
16. If the unit has not been used for a long period of time, let it reach room temperature before switching it on. Never use the unit in humid rooms or outdoors.
17. Follow applicable guidelines and instructions to prevent accidents in companies.
18. Do not repeatedly switch the fixture on and off as this shortens the lifetime.
19. Keep the unit out of reach of children and do not leave it unattended.
20. Do not use cleaning sprays to clean switches. The residues of these sprays cause deposits of dust and

grease. In case of malfunction, always seek advice from a specialist.

21. Do not force the controls.
22. Only use original spares for repairs, otherwise, serious damage and/or dangerous radiation may occur.
23. Switch off the unit before unplugging it from the mains and/or other equipment. Unplug all leads and cables.

Congratulations on the purchase of this Power Dynamics product. Please read this manual thoroughly prior to using the unit in order to benefit fully from all features. Read the manual prior to using the unit. Follow the instructions in order not to invalidate the warranty. Take all precautions to avoid fire and/or electrical shock. Repairs must only be carried out by a qualified technician in order to avoid electrical shock. Keep the manual for future reference.

- Prior to using the unit, please ask for advice from a specialist. When the unit is switched on for the first time, some smell may occur. This is normal and will disappear after a while.
- The unit contains voltage-carrying parts. Therefore do NOT open the housing.
- Do not place metal objects or pour liquids into the unit. This may cause electrical shock and malfunction.
- Do not place the unit near heat sources such as radiators, etc. Do not place the unit on a vibrating surface. Do not cover the ventilation holes.
- The unit is not suitable for continuous use.
- Be careful with the mains lead and do not damage it. A faulty or damaged mains lead can cause electrical shock and malfunction.
- When unplugging the unit from a mains outlet, always pull the plug, never the lead.
- Do not plug or unplug the unit with wet hands.
- If the plug and/or the mains lead are damaged, they need to be replaced by a qualified technician.
- If the unit is damaged to such an extent that internal parts are visible, do NOT plug the unit into a mains outlet, and DO NOT switch the unit on. Contact your dealer. Do NOT connect the unit to a rheostat or dimmer.
- To avoid fire and shock hazards, do not expose the unit to rain and moisture.
- All repairs should be carried out by a qualified technician only.
- Connect the unit to an earthed mains outlet (220-240Vac/50Hz) protected by a 10-16A fuse.
- During a thunderstorm or if the unit will not be used for a longer period of time, unplug it from the mains. The rule is to Unplug it from the mains when not in use.
- If the unit has not been used for a longer period of time, condensation may occur. Let the unit reach room temperature before you switch it on. Never use the unit in humid rooms or outdoors.
- To prevent accidents in companies, you must follow the applicable guidelines and follow the instructions.
- Do not repeatedly switch the fixture on and off. This shortens the lifetime.
- Keep the unit out of the reach of children. Do not leave the unit unattended.
- Do not use cleaning sprays to clean switches. The residues of these sprays cause deposits of dust and grease. In case of malfunction, always seek advice from a specialist.
- Do not force the controls.
- This unit is with a speaker inside which can cause a magnetic field. Keep this unit at least 60cm away from the computer or TV.
- This unit is with a built-in lead-acid rechargeable battery. Please recharge the battery every 3 months if you are not going to use the unit for a long period of time. Or the battery may be damaged.
- If the battery is damaged please replace it with the same specifications battery. And dispose of the damaged battery environment-friendly.
- If the unit has fallen, always have it checked by a qualified technician before you switch the unit on again.

- Do not use chemicals to clean the unit. They damage the varnish. Only clean the unit with a dry cloth.
- Keep away from electronic equipment that may cause interference.
- Only use original spares for repairs, otherwise, serious damage and/or dangerous radiation may occur.
- Switch the unit off prior to unplugging it from the mains and/or other equipment. Unplug all leads and cables prior to moving the unit.
- Make sure that the main lead cannot be damaged when people walk on it. Check the mains lead before every use for damages and faults!
- The mains voltage is 220-240Vac/50Hz. Check if the power outlet matches. If you travel, make sure that the mains voltage of the country is suitable for this unit.
- Keep the original packing material so that you can transport the unit in safe conditions.

This mark attracts the attention of the user to high voltages that are present inside the housing and that are of sufficient magnitude to cause a shock hazard.

This mark attracts the attention of the user to important instructions that are contained in the manual and that he should read and adhere to. The unit has been certified CE. It is prohibited to make any changes to the unit. They would invalidate the CE certificate and their guarantee!

NOTE: To make sure that the unit will function normally, it must be used in rooms with a temperature between 5°C/41°F and 35°C/95°F. Electric products must not be put into household waste. Please bring them to a recycling center. Ask your local authorities or your dealer about the way to proceed. The specifications are typical. The actual values can slightly change from one unit to the other. Specifications can be changed without prior notice. Do not attempt to make any repairs yourself. This would invalidate your warranty. Do not make any changes to the unit. This would also invalidate your warranty. The warranty is not applicable in case of accidents or damages caused by inappropriate use or disrespect of the warnings contained in this manual. Power Dynamics cannot be held responsible for personal injuries caused by the disrespect of the safety recommendations and warnings. This is also applicable to all damages in whatever form.

UNPACKING INSTRUCTION

CAUTION: Immediately upon receiving the product, carefully unpack the carton, and check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain the packing material for inspection if any parts appear damaged from shipping or the package itself shows signs of mishandling. Save the package and all packing materials. In the event that the product must be returned to the factory, it is important that the product be returned in the original factory box and packing.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

POWER SUPPLY

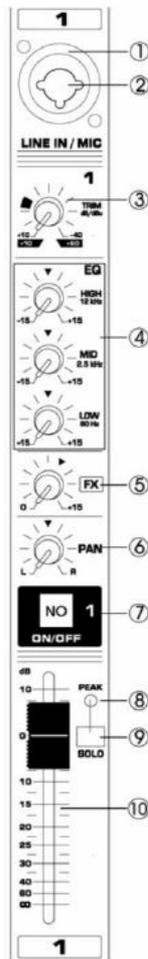
The label on the backside of the product indicated on this type of power supply must be connected. Check that the mains voltage corresponds to this, if all other voltages are than specified, the product be irreparably damaged. The product must also be directly connected to the mains and may be used. No dimmer or adjustable power supply. Always connect the device to a protected circuit (circuit breaker or fuse). Make sure the device has an appropriate electrical ground to avoid the risk of electrocution or fire.

CONTROL ELEMENTS

1. **Microphone Input:** Balanced XLR input jacks.
2. **LINE Input:** Balanced 6.3mm (1/4") jack line inputs. You can connect either balanced or unbalanced phone plugs to these jacks.
3. **TRIM Control:** Adjusts the input signal level. To get the best balance between the S/N ratio and the dynamic

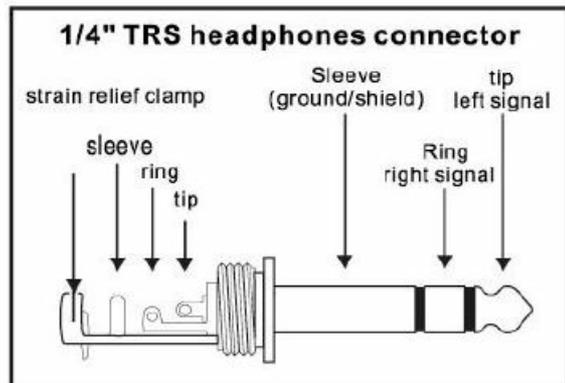
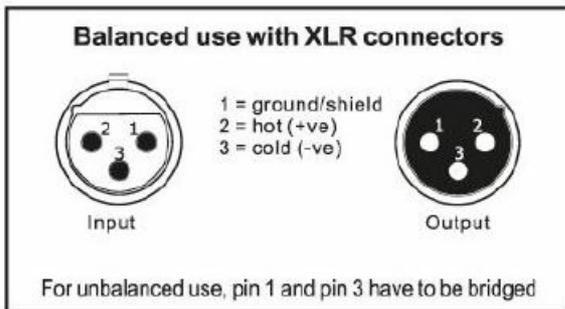
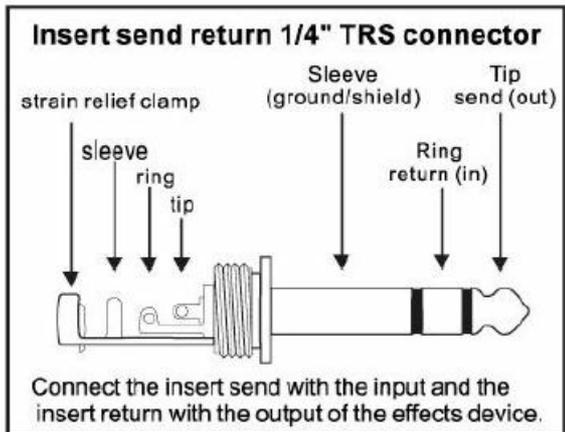
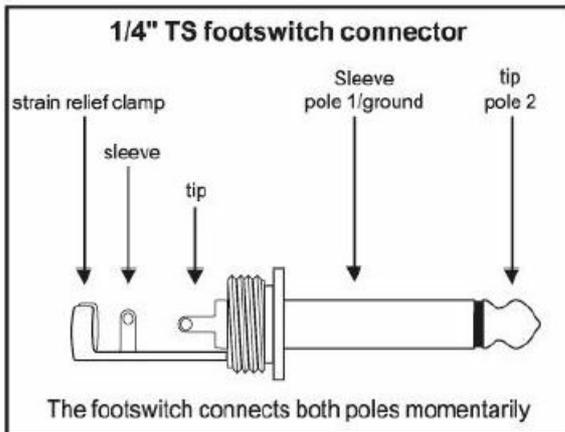
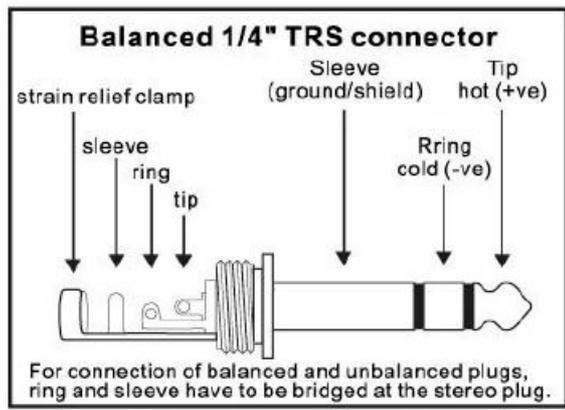
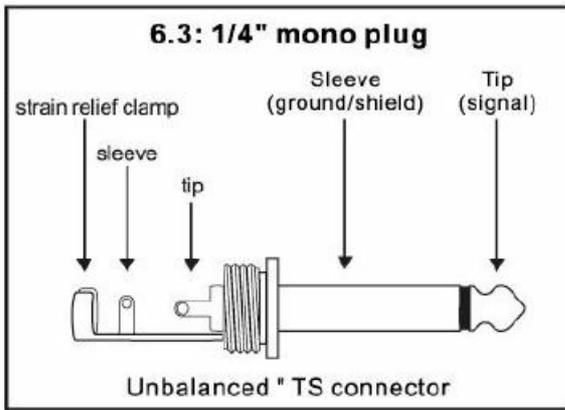
range, adjust the gain so that the peak indicator (8) lights only occasionally and briefly on the highest input transients. The +10dB to +60dB scale is the MIC input adjustment range. The +10dB to -40 dB scale is the line input adjustment range.

4. **3-Bands Equalizer:** Three-band equalizer adjusts the channel's high, mid, and low-frequency bands. Setting the knob to the "O" position produces a flat response in the corresponding band. Turning the knob to the right boosts the corresponding frequency band while turning to the left attenuates the band.
5. **FX Control:** Adjusts the effect signal level.
6. **PAN Control:** The PAN control determines the position of the channel signal within the stereo image. When working with subgroups, you can use the PAN control to assign the signal to just one output, which gives you additional flexibility in recording situations.
7. **ON/OFF Switch:** Turn this switch on to send the signal to the master. The switch lights when on.
8. **Peak LED:** The peak-led lights up when the input signal is driven too high. If this happens, back off the TRIM control and, if necessary, check the setting of the channel EQ.
9. **Solo Switch:** The solo switch is used to route the channel signal to the solo bus (Solo In Place) or to the PFL bus (Pre-Fader Listen). This enables you to listen to a channel signal without affecting the main output signal.
10. **Channel Fader:** Adjusts the level of the channel signal. Use these faders to adjust the balance between the various channels.
11. **Line Input:** These RCA jacks are input for the stereo sound source. Use these jacks when you want to connect a CD player directly to the mixer.
12. **Line Output:** These RCA jacks can be connected to an external recorder.
13. **FX Output:** The FX output jacks carry the master aux mix (from the channel FX controls). You can connect this to an external effects device to process the FX bus. The processed FX signal can then be brought from the effects device back into the stereo Return jacks.
14. **Returns stereo:** The stereo aux return jacks generally serve as the return for the effects mix (created using the post-fader aux sends) by connecting the output of an external effects device.



15. **Main Out:** The XLR jacks deliver the mixer's stereo output. You use these jacks, for example, to connect to the power amplifier driving your main speakers.
16. **Effect Display:** Show the kind of effect.
17. **Program Dial:** You can select the effect preset by turning the program control. The display flashes with the number of the current preset. To recall the selected preset, press the button; the flashing stops. You can also recall the selected preset with the foot switch.
18. **FX Control:** The FX-Output jacks carry the master aux mix (from the channel's FX controls). You can connect this to an external effects device to process the FX bus.
19. **Repeat Control:** Adjusts the parameter (depth, speed, etc.) for the selected effect.
20. **7-Bands Equalizer:** The graphic stereo equalizer allows you to tailor the sound to the room's acoustics.
21. **Aux return Stereo:** Adjusts the level at which the signal received at the return jacks (L and R), is sent to the stereo L/R bus.
22. **Line In control:** Adjusts the level of the signal sent from the RCA Line in jacks (12).
23. **Headphone Level:** Use this control to adjust the output level of headphones.
24. **FX Fader:** Control effect input signal level.
25. **MP3/BT Fader:** Control the volume of MP3 and BT.
26. **Main Mix Fader:** Control the output level of the main mix.
27. **USB Port:**
 - USB: can be played through U-DISK
28. **MP3 Display:** Show the MP3 time, song name, and other play instructions.
29. **MP3/BT Command:**
 - STOP: Press shortly to stop playing. Press for seconds for recording, also press 2 seconds to stop recording.

- PREV / NEXT: Turning the program control.
 - PLAY: Press the program control knob.
 - REP: Repeating of single track or all tracks.
 - Two-band equalizer adjusts the high and low frequency of the MP3/BT player.
30. **Phantom +48V:** This switch toggles phantom power on and off. When the switch is on the mixer supplies +48V phantom power to all channels that have XLR input jacks. Turn this switch on when using one or more phantom-powered condenser microphones.
31. **Power indicator:** This indicator lights when the mixer power is on.
32. **48V Indicator:** The red +48V LED lights up when phantom power is switched on. Phantom power is required to operate condenser microphones.
33. **VU-Meter:** Displays the signal of output.
- NOTE: The “0” segment corresponds to the nominal output level. The peak indicator lights up red when the output reaches the clipping level.
34. **BT-Function:** Contact mobile phone or tablet. Connecting: Press the “contact switch” for two seconds, then the signal LED lights up, use your mobile phone or tablet and choose “PD Power Dynamics” BT connection.
35. **Headphone:** 6.3mm (1/4”) input jack for connecting a headphone.
- CABLE CONNECTIONS
CABLE CONNECTIONS
CABLE CONNECTIONS



SPECIFICATIONS

MICROPHONE INPUTS (XENYX MIC PREAMP)

Type	XLR, electronically balanced, discrete input circuit
Mic E.I.N. (20 Hz - 20 kHz)	
@ 0 Ω source resistance	-134 dB / 135.7 dB A-weighted
@ 50 Ω source resistance	-131 dB / 133.3 dB A-weighted
@ 150 Ω source resistance	-129 dB / 130.5 dB A-weighted
Frequency response	<10 Hz - 150 kHz (-1 dB), <10 Hz - 200 kHz (-3 dB)
Gain range	+10 to +60 dB
Max. input level	+12 dBu @ +10 dB Gain
Impedance	approx. 2.6 k Ω balanced
Signal-to-noise ratio	110 dB / 112 dB A-weighted (0 dBu In @ +22 dB gain)
Distortion (THD+N)	0.005% / 0.004% A-weighted
Line input	
Type	¼" TRS connector electronically balanced
Impedance	approx. 20 k Ω balanced 10 k Ω unbalanced
Gain range	-10 to +40 dB
Max. input level	30 dBu

The specifications are typical. The actual values can slightly change from one unit to the other. Specifications can be changed without prior notice. The products referred to in this manual conform to the European Community Directives to which they are subject.

European Union

- Tronios B.V.,
- Bedrijvenpark Twente Noord 18,
- 7602KR Almelo, The Netherlands
- 2014/35/EU
- 2014/30/EU
- 2011/65/EC

United Kingdom

- Tronios Ltd.,
- 130 Harley Street,
- London W1G 7JU, United Kingdom

- S.I. 2016:1101
- S.I. 2016:1091
- S.I. 2012:3032

Documents / Resources

	<p>Power Dynamics PDM-Series Powered Music Mixers [pdf] Instruction Manual 172.610, 172.612, 172.614, PDM-Series Powered Music Mixers, PDM-Series, Powered Music Mixers, PDM-Series Music Mixers, Music Mixers, Mixers</p>
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References

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-  [Stibat](#)
-  [Sound & Light distributor - Tronios.com](#)
-  [Inleveren is terugkrijgen - Wecycle](#)
-  [Inleveren is terugkrijgen - Wecycle](#)