



# Power Dynamics PDM-S2004 20-Channel 2 Sections Mixer Instruction Manual

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## Power Dynamics PDM-S2004 20-Channel 2 Sections Mixer Instruction Manual



Congratulations to 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 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 hazard, 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: 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 guide lines and follow the instructions.
- Do not repeatedly switch the fixture on and off. This shortens the life time.
- 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 speaker inside which can cause magnetic field. Keep this unit at least 60cm away from computer or TV.
- This unit is with 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 with same specifications battery. And dispose 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 mains 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 power outlet match. 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 centre. 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 invalid your warranty. Do not make any changes to the unit. This would also invalid 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 a disrespect of the safety recommendations and warnings. This is also applicable to all damages in whatever form.

## Contents

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## UNPACKING INSTRUCTION

**CAUTION!** Immediately upon receiving the product, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damage 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

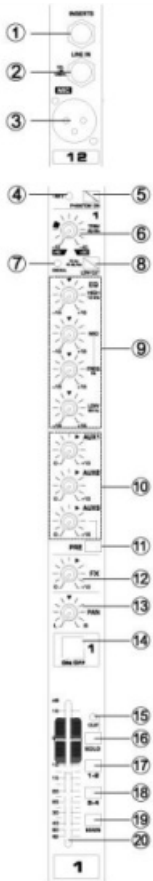
On the label on the backside of the product is indicated on this type of power supply must be connected. Check that the mains voltage corresponds to this, all other voltages than specified, the product be irreparably damaged. The product must also be directly connected to the mains and may be used. No 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. Insert Jacks

These jacks can be used to insert an external signal-processing device between the equalizer and fader of the corresponding monaural input channel. The insert jacks are ideal for connecting devices such as graphic equalizers, compressors or noise filters into the corresponding channels.

### 2. Line Input

Balanced 6.3mm (1/4") jack line inputs. You can connect either balanced or unbalanced phone plugs to these jacks.

### 3. Microphone Input

Balanced XLR input jacks.

### 4. 48V Indicator

The red LED lights up when phantom power is switched on. Phantom power is required to operate condenser microphones.

### 5. Phantom +48V

This switch toggles phantom power on and off. When the switch is on the mixer supplies +48V phantom power to XLR input jack. Turn this switch on when using one or more phantom-powered condenser microphones.

### 6. 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 (15) lights only occasionally and briefly on the highest input transients. The -60 to +10 scale is the MIC input adjustment range. The 40 to +10 scale is the line input adjustment range.

#### 7. Signal LED Indicator

Check the input signal.

#### 8. Low Out Switch

This switch toggles the HPF on or off. To turn the HPF on, the HPF cuts frequencies below 75Hz.

#### 9. 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.

#### 10. Aux Control

Monitor and effect busses (Aux sends) source their signals via a control from one or more channels and sum these signals to a so-called bus. This bus signal is sent to an aux send connector (for monitoring applications: Mon Out) and then routed, for example, to an active monitor speaker or external effect device. In the latter case, the effects return can then be brought back into the console via the aux return connectors. All monitor and effect busses are mono, are tapped into post EQ and offer amplification of up to +15dB.

#### 11. Pre Switch

With the Pre-switch, you can route an input channel to the headphone/Room section.

#### 12. FX/AUX Control

The aux send marked FX offers a direct route to the built-in effects processor and is therefore post-fader and post-mute.

#### 13. 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. For example, when routing to subgroups 3 and 4, panning hard left will route the signal to group output 3 only, and panning hard right will route to group output 4 only.

#### 14. ON/OFF Switch

Turn this switch on to send the signal to the buses. The switch lights orange when on.

#### 15. Clip LED

The clip-led lights up when the input signal is driven too high. If this happens, back off the Trim control and, if necessary

#### 16. 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. The signal you hear is taken either before the pan control (PFL, mono) or after the pan and channel fader.

#### 17. SUB Switch 1-2

The SUB switch routes the signal to the corresponding subgroups.

#### 18. SUB Switch 3-4

The SUB switch routes the signal to the corresponding subgroups.

#### 19. Main Switch

This switch aligns the main.

#### 20. Channel Fader

Adjusts the level if the channel signal. Use these faders to adjust the balance between the various channels.

21. BT-Function

Contact mobile phone or tablet. Connecting: Press the “contact switch” for two seconds, then the signal LED light up, use your mobile phone or tablet and choose “MIXER-01” BT-connection.

22. A. Effector Level Light Show the effect level stronger.

B. Effector Display Show the kind of effector

C. Mp3 Play Window Show the MP3 time, song name and other play instruction.

23. FX Control

The aux send jacks carries 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 signal can then be brought from the effects device back into the Stereo Aux return jacks.

24. 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 on the button; the flashing stops. You can also recall the selected preset with the foot switch.

25. Aux Control

With this fader you can control the Aux output jack.

26. 9-Band Stereo Graphic Equalizer

The graphic stereo equalizer allows you to tailor the sound to the room acoustics.

27. Headphone/Room Level

Use this control to adjust the output level of headphone.

28. 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.

29. CD/PC Control

Adjusts the level of the signal sent from the CD IN jacks. Computer USB audio input & sound control.

30. MP3 Switch same as No. 14.

31. FX Switch same as No. 14.

32. Same as No. 15,16,17,18,19

33. FX Send Fader

Control effect input signal level & Send FX Jack input.

34. MP3 Fader

Control effect input signal level.

35. Computer USB Contacted Jack

Used USB cable line to contact with computer & mixer. Mixer could be play the computer audio and computer could be recording the mixer output audio.

36. USB Port

USB: can be play through U-DISK

37. 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.

38. MP3 EQ

Two-band equalizer adjusts the level of the two bands MP3 player.

39. 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.

40. 48V Indicator

The red LED lights up when phantom power is switched on. Phantom power is required to operate condenser microphones

41. Power indicator

This indicator lights when the mixer power is on.

42. 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.

43. EQ Switch

Use this switch to activate the graphic equalizer.

44. PFL indicator

When open the monitor, PFL is lighting.

45. Headphone Input

6.3mm (1/4") input jack for connecting a headphone.

46. Sub to Main Switch

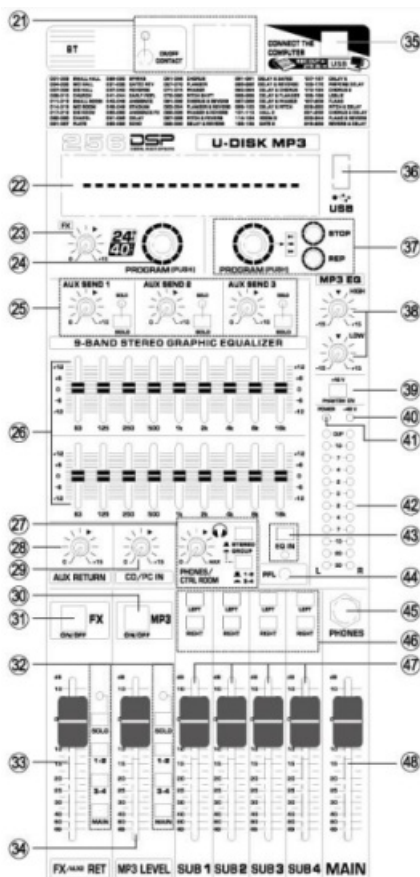
If this switch is on, the mixer send the signals processed by the Sub faders onto the stereo bus.

47. Sub Fader 1-4

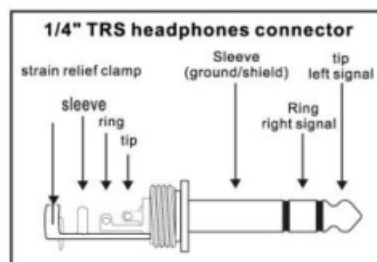
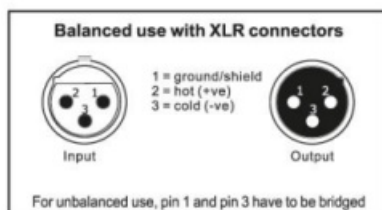
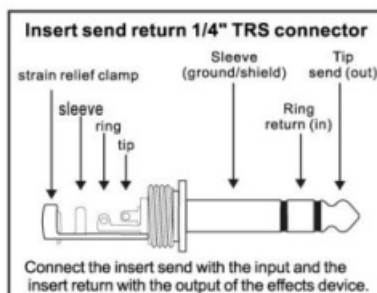
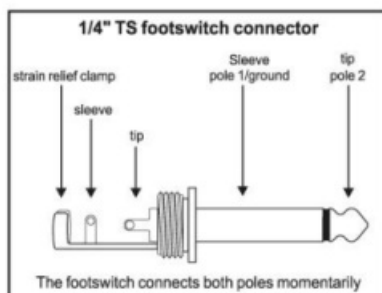
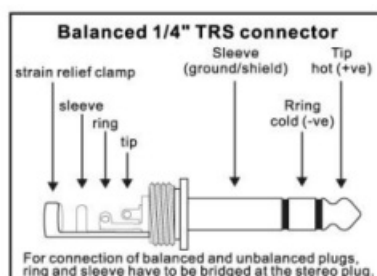
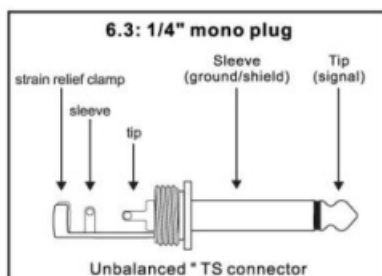
Adjusts the signal level sent to the Sub Out (1-4 Jacks).

48. Main Mix Fader

You use the high-precision quality faders to control the output level of the main mix.

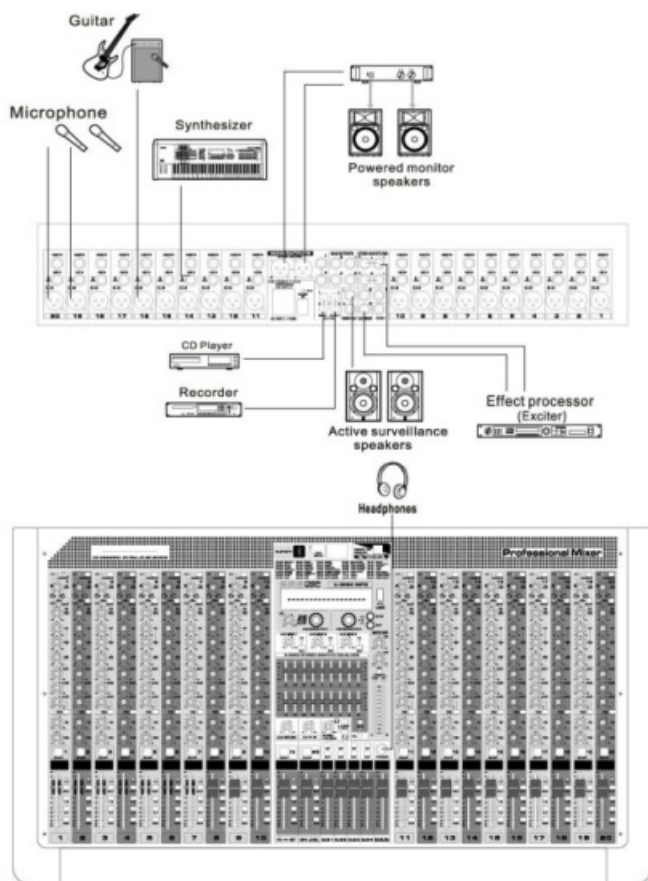


## CABLE CONNECTIONS



## INSTALLATION





## SPECIFICATIONS

### MICROPHONE INPUTS (XENYX MIC PREAMP)

Type	XLR, electronically balanced, discrete input circuit
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#### Mic E.I.N. (20 Hz - 20 kHz)

@ 0 $\Omega$ source resistance	-134 dB / 135.7 dB A-weighted
@ 50 $\Omega$ source resistance	-131 dB / 133.3 dB A-weighted
@ 150 $\Omega$ 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 $\Omega$ 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 $\Omega$ balanced 10 k $\Omega$ unbalanced
Gain range	-10 to +40 dB
Max. input level	30 dBu

**FADE-OUT ATTENUATION¹****(CROSSTALK ATTENUATION)**

Main fader closed	90 dB
Channel muted	89 dB
Channel fader closed	89 dB

**FREQUENCY RESPONSE****Microphone input to main out**

<10 Hz - 90 kHz	+0 dB / -1 dB
<10 Hz - 160 kHz	+0 dB / -3 dB

**Stereo inputs**

Type	¼" TRS connector, electronically balanced
Impedance	approx. 20 kΩ
Max. input level	+22 dBu

**EQ mono channels**

Low	80 Hz / ±15 dB
Mid	100 Hz - 8 kHz / ±15 dB
High	12 kHz / ±15 dB

**EQ stereo channels**

Low	80 Hz / ±15 dB
Low Mid	500 Hz / ±15 dB
High Mid	3 kHz / ±15 dB
High	12 kHz / ±15 dB

**Aux sends**

Type	¼" TS connector, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

**Stereo aux returns**

Type	¼" TRS connector, electronically balanced
Impedance	approx. 20 kΩ bal. / 10 kΩ unbal.
Max. input level	+22 dBu

**Main outputs**

Type	XLR, electronically balanced and ¼" TRS balanced
1622FX only:	¼" TS connector unbalanced
Impedance	approx. 240 Ω symm. / 120 Ω unbalanced
Max. output level	+28 dBu +22 dBu

**Control room outputs**

Type	¼" TS connector unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

**Headphones outputs**

Type	¼" TRS connector, unbalanced
Max. output level	+19 dBu / 150 Ω (+25 dBm)

**DSP**

Converter	24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	40 kHz

**MAIN MIX SYSTEM DATA¹****Noise**

Main mix @ -∞	
Channel fader @ -∞	-101 dB -100 dB
Main mix @ 0 dB, Channel fader @ -∞	-93 dB -96 dB -87 dB
Main mix @ 0 dB, Channel fader @ 0 dB	-81 dB -83 dB -80 dB

**Power supply**

Mains voltage	100 to 240 V~, 50/60 Hz
Fuse	100 - 240 V ~: T 1.6 A H 250 V
Mains connection	Standard IEC receptacle

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:

- Low Voltage (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) 2014/30/EU
- Restriction of Hazardous Substances (RoHS) 2011/65/EU




Specifications and design are subject to change without prior notice..




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## Documents / Resources

 <p>Power Dynamics Professional Audio PDM-S2004 20-Channel Mixer 16 x 16 Channels</p> <p>INSTRUCTION MANUAL GEBRUIKSAANWIJZING BEDIJNINGSAANWIJZING MANUAL DE INSTRUCCIONES MANUAL D'ISTRUZIONI</p>	<p><a href="#">Power Dynamics PDM-S2004 20-Channel 2 Sections Mixer</a> [pdf] Instruction Manual PDM-S2004, 20-Channel 2 Sections Mixer</p>
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## References

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