

User Manual



EUROPOWER PMP2000

800-Watt 14-Channel Powered Mixer with Multi-FX Processor



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Thank you

Congratulations! With the PMP2000 you have acquired a state-of-the-art 14-channel power mixer that sets new standards. Right from the start, our goal has been to design a revolutionary device that can be used for a great variety of applications. And indeed, this overwhelming power mixer gives you plenty of functionality and a broad range of connection and expansion options.

EN Important Safety Instructions

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

**Caution**

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

**Caution**

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Caution**

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid

injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



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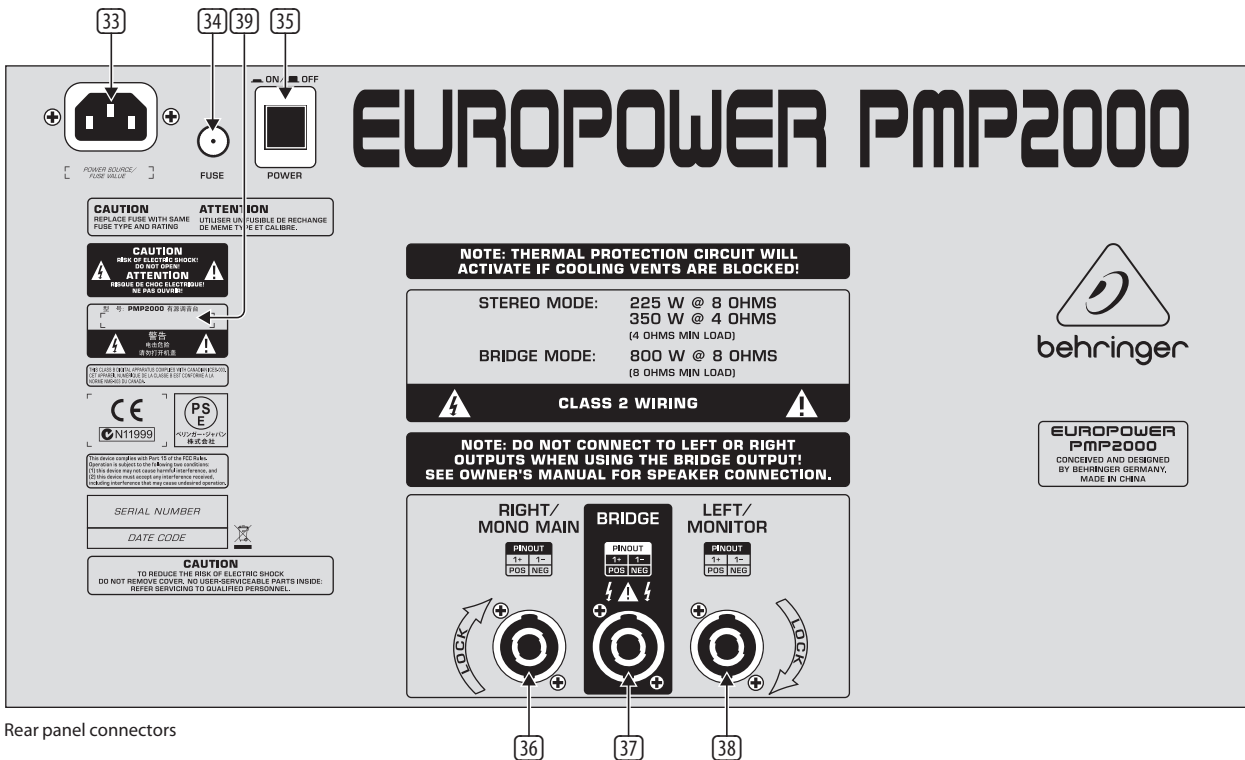
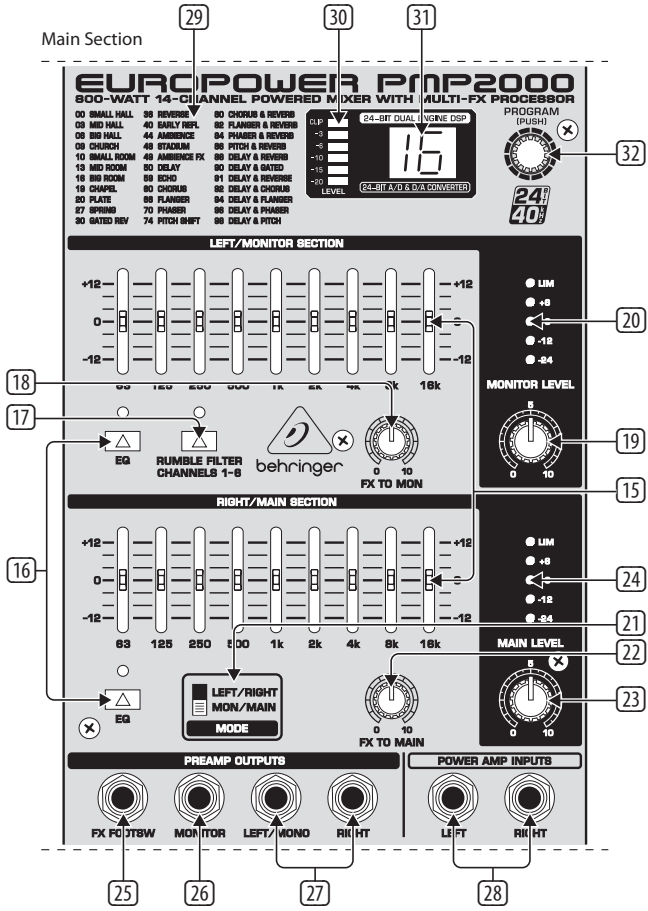
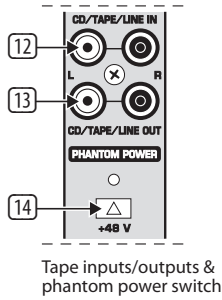
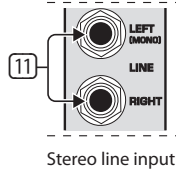
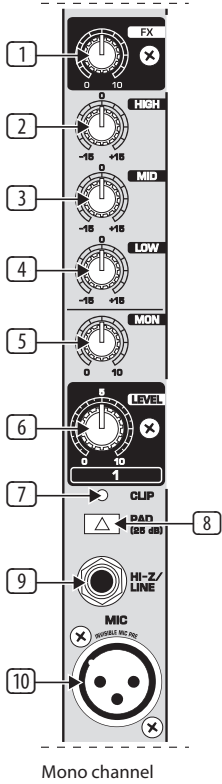
Trident Chambers, Wickhams Cay, P.O. Box 146, Road Town, Tortola, British Virgin Islands

LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at www.music-group.com/warranty.

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1. Introduction

BEHRINGER is a company with its roots in professional recording studio technology. For many years now we have been successful in developing products for studio and live use. These include microphones and 19" devices of all kinds (compressors, enhancers, noise gates, tube processors, headphone amplifiers, digital effects devices, DI boxes, etc.), monitor and P.A. speakers and professional live and recording mixers. Our entire technical know-how has gone into your PMP2000.

- ◆ **This manual first describes the terminology used, so that you fully understand the PMP2000 and its functions. Please read the manual carefully and keep it for future reference.**

1.1 Before you get started

1.1.1 Shipment

Your PMP2000 was carefully packed at the factory and the packaging is designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage which may have occurred during transit.

- ◆ **If the unit is damaged, please do NOT return it to BEHRINGER, but notify your dealer and the shipping company immediately. Otherwise, claims for damage or replacement may not be granted.**

1.1.2 Initial operation

Be sure that there is enough space around the unit for cooling and, to avoid overheating, please do not place the PMP2000 near radiators etc.

- ◆ **Before you connect the PMP2000 to the mains, please make sure that the voltage setting on the unit matches the local voltage!**
- ◆ **If you set the unit to a different mains voltage, be sure to use a fuse of the correct type and rating. Please refer to the "Specifications" for details.**
- ◆ **Blown fuses must be replaced by fuses of the same type and rating! Please refer to the "Specifications" for details.**

The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all of the international safety certification requirements.

- ◆ **Please make sure that all units have a proper ground connection. For your own safety, never remove or disable the ground conductor from the unit or of the AC power cord. The unit shall always be connected to the mains socket outlet with a protective earthing connection.**

To avoid damage on the device, do not

- earth the loudspeaker outputs
- connect the loudspeaker outputs to each other
- connect the loudspeaker outputs to those of other amplifiers

IMPORTANT NOTES CONCERNING INSTALLATION

The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.

1.1.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

2. Control Elements

2.1 Front panel

Your EUROPOWER PMP2000 comes with 14 input channels, which only differ in terms of pad switch, peak LED and interface panel. Since the EQ, effect, monitor and level controls are identical on all channels, they will be described only once on the enclosed sheet.

- ① The **FX** control determines the signal level that is routed from the respective channel to the built-in effects processor.
- ◆ **Please note that the effects processor is muted as long as the FX TO MAIN control (🔊) is set fully counter-clockwise.**
- ② The **HIGH** control in the EQ section governs the high frequencies of the respective channel.
- ③ Use the **MID** control to boost/cut the mid range.
- ④ The **LOW** control allows you to raise or lower the bass frequencies.
- ⑤ The **MON** control determines the channel's volume assigned to the monitor mix.
- ⑥ Use the **LEVEL** control to set the volume level of the respective channel.
- ⑦ Use the **CLIP LED** to ensure that the input gain is set properly. The CLIP LED should light up only with peak signals, but never all the time.
- ⑧ The **PAD** button reduces the channel input sensitivity by 25 dB. Thus, you can also connect high-level line signals to the respective channel input.
- ⑨ This **HI-Z/LINE** input can be used to connect line level signal sources, such as keyboards, electric and bass guitars.
- ⑩ This is the channel's balanced XLR microphone input.
- ⑪ The stereo line input of channels 7 - 12 can be used to connect, for example, keyboards with stereo outputs or a stereo drum computer.
- ◆ **Please remember to use either the microphone or the line input on a specific channel. Never use both at the same time. This rule applies to channels 1 - 12.**
- ◆ **When you connect a mono line signal to channels 7 - 12, please always use the left input. The mono signal will then be reproduced on both stereo sides.**

- 12 The **CD/TAPE/LINE IN** RCA input of channel 13/14 allows you to feed in external stereo signals from your CD player or tape deck, for example.
- 13 The **CD/TAPE/LINE OUT** RCA output provides the stereo main mix signal of your PMP2000 and can be routed to, say, a recording machine.
- ♦ **When the CD/TAPE OUT signal is connected to a tape deck whose output signal is routed back to the CD/TAPE IN on the PMP2000, feedback can be produced as soon as you start recording. Be sure to interrupt the connection to the CD/TAPE IN before recording!**
- 14 The phantom power supply provides the voltage necessary for the operation of condenser microphones. Use the **PHANTOM POWER** switch to activate the supply together for channels 1 - 12 (XLR connector). The LED above the switch is lit when phantom power is on.
- 15 This is the PMP2000's graphic stereo equalizer, which comprises two units and can be used to adapt the sound to the room acoustics.
- The stereo equalizer is effective on the main mix when both units have been activated with the EQ IN buttons 16 and the MODE switch 21 is set to its upper position ("LEFT/RIGHT").
 - The stereo equalizer uses one unit each to process the main and monitor mix signals, if both units are on and the MODE switch 21 is set to its lower position ("MON/MAIN").
- 16 Use the **EQ IN** buttons to switch the two equalizer units on or off.
- 17 Press the **RUMBLE FILTER** button to activate the low-cut filter of channels 1 - 6. This filter eliminates unpleasant bass frequencies (e.g. microphone pop noise).
- 18 The **FX TO MON** control determines the effects intensity of the multi-effects processor as part of the monitor mix. Turn the control fully counter-clockwise to add no effect to the monitor mix.
- 19 The **MONITOR LEVEL** control adjusts the volume of the monitor mix.
- 20 Use the **MONITOR LEVEL** display to control the monitor signal level. The upper LED (LIM) lights up when the built-in limiter is activated, thus protecting against overload.
- 21 With this **MODE** switch you can determine whether the PMP2000 works as a stereo amplifier ("LEFT/RIGHT") or as a dual mono amplifier ("MON/MAIN"). Please note that the equalizer function also depends on this switch setting (see 15).
- 22 The **FX TO MAIN** control functions as FX return for the built-in effects processor. Use this control to add the desired effect signal to the main mix. No effect signal is added when the FX TO MAIN is set fully counter-clockwise.
- 23 The **MAIN LEVEL** control governs the overall volume of the PMP2000.
- 24 The **MAIN LEVEL** display reads the output level of the PMP2000. The upper LED (LIM) lights up when the built-in limiter is activated, thus protecting against signal peaks.
- 25 Use the **FX FOOTSW**(itch) jack to connect any commercially available foot controller. It allows you to bypass the effects unit.
- 26 This is the balanced **MONITOR** output of your PMP2000. Use it to feed an external monitor amp or active wedge.
- 27 These two ¼" **TS** jacks allow you to route the output signal to an external amplifier. This allows you to, say, use only the mixing and effect section of the PMP2000. The signal is taken pre-power amp. Of course, you can also use only the left jack as a mono output.
- 28 These two ¼" **TS** jacks can be used to connect external signals, such as the main mix signal from an additional mixing console (pre-power amp).
- 29 Here, you will find a list of all multi-effect presets available.

- 30 This is the **LED** level meter of the effects processor. Please make sure that the clip LED lights up with signal peaks only. If it is lit constantly, this indicates that the effects processor is overdriven, which can lead to unpleasant distortion.
- 31 The Effect display reads the currently selected preset.
- 32 Turn the **PROGRAM** control to select the effect presets. Press the control briefly to confirm your selection.

2.2 Rear panel

- 33 The mains connection is on a standard IEC receptacle. An appropriate power cord is supplied with the unit.
- 34 **FUSE HOLDER.** Before connecting the unit to the mains, ensure that the voltage setting matches your local voltage. Blown fuses should only be replaced by fuses of the same type and rating.
- 35 Use the **POWER** switch to put your PMP2000 into operation. The POWER switch should always be in the "Off" position when you are about to connect your unit to the mains.
- ♦ **Attention: The POWER switch does not fully disconnect the unit from the mains. Unplug the power cord completely when the unit is not used for prolonged periods of time.**
- 36 This is the **RIGHT/MONO MAIN** loudspeaker output of your PMP2000, where you can connect the right loudspeaker of a stereo system. For this purpose, switch 21 must be set to its upper position. If, however, you run a mono main mix (switch 21 set to its lower position), this loudspeaker output provides the main mix signal in mono.
- ♦ **The impedance of the loudspeaker connected here must not fall below 4 Ω.**
- 37 The **BRIDGE** loudspeaker output allows you to combine the left and right stereo channel in one mono output, which is useful for applications that require the use of one loudspeaker only. To use the BRIDGE output, switch 21 must be set to "LEFT/RIGHT".
- ♦ **Always connect the BRIDGE jack to a loudspeaker with a minimum impedance of 8 Ω!**
- ♦ **Please note that the power delivered to the speaker connected to the BRIDGE output is considerably higher than the power provided to the speakers wired to the parallel speaker outputs. Please read the information given on the rear panel of your PMP2000.**
- ♦ **When using the BRIDGE loudspeaker output, NEVER use any of the other two connectors (RIGHT/MONO MAIN and LEFT/MONITOR) at the same time!**
- 38 This is the **LEFT/MONITOR** loudspeaker output of your PMP2000, to which you can connect the left loudspeaker of a stereo system (switch 21 set to its upper position). If you do a main mix in mono (switch 21 set to its lower position), this loudspeaker output provides the monitor signal in mono.
- ♦ **The impedance of the loudspeaker connected here must not fall below 4 Ω.**
- ♦ **Information on how to properly connect your speaker with regard to polarity can be found on the rear of the unit (PIN assignment).**
- 39 **SERIAL NUMBER.**

3. Effects Processor

24-Bit Multi-Effects Processor

This built-in effects module produces high-grade standard effects such as reverb, chorus, flanger, delay and various combination effects. The integrated effects module has the advantage of requiring no wiring. This way, the danger of creating ground loops or uneven signal levels is eliminated at the outset, completely simplifying the handling. These effect presets are designed to be added to dry signals. If you move the FX TO MAIN/MON control, you mix the channel signal (dry) and the effect signal.

- ◆ Turn down the FX controls in those channel strips whose signals you don't wish to process.

4. Installation

4.1 Mains voltage

Before connecting the PMP2000 to the mains, please carefully check that your equipment is set to the correct voltage! Blown fuses must be replaced by fuses of the same type and rating!

4.2 Mains connection

The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all of the international safety certification requirements.

- ◆ Please make sure that all units have a proper ground connection. For your own safety, never remove or disable the ground conductor from the unit or of the AC power cord.

4.3 Audio connections

The in and outputs of your BEHRINGER PMP2000 are designed as unbalanced 1/4" mono jacks—except for the mono channel line inputs, which come as balanced 1/4" stereo jacks. Of course, all in and outputs work with both balanced and unbalanced connectors. The tape ins and outs are on stereo RCA connectors.

- ◆ Please ensure that only qualified personnel install and operate the PMP2000. During installation and operation, the user must have sufficient electrical contact to earth. Electrostatic charges might affect the operation of the unit.

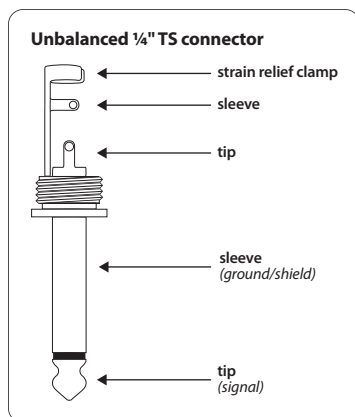


Fig. 4.1: 1/4" mono plug

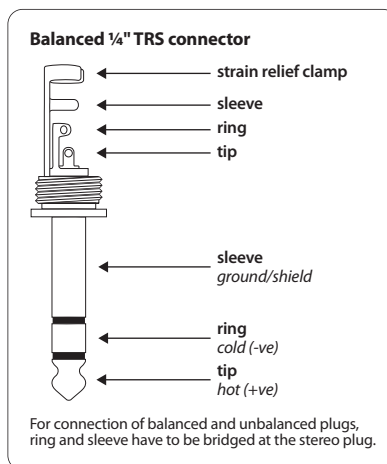


Fig. 4.2: 1/4" stereo plug

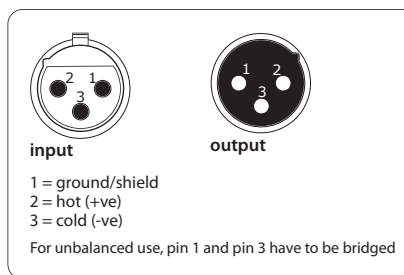


Fig. 4.3: XLR connectors

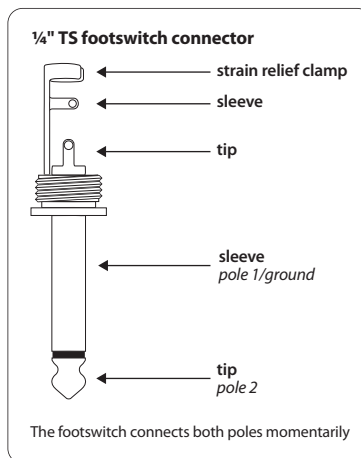


Fig. 4.4: 1/4" TS connector for footswitch

4.4 Loudspeaker connections

Your EUROPOWER is equipped with high-quality Neutrik Speakon-compatible loudspeaker connectors, which ensure safe and trouble-free operation. The Speakon connector was especially developed for high-power loudspeakers.

Once it is plugged in, it safely locks into position and cannot be accidentally disengaged. It prevents the occurrence of electrical shock and ensures the correct polarity. Each of the connectors carries only the assigned single signal (see tab. 4.1/fi g. 4.6 and the information on the rear panel of the power mixer).

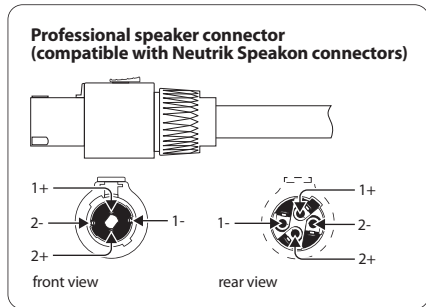


Fig. 4.5: Loudspeaker connector

Please be sure to only use commercial Speakon cables (type NL4FC) for connecting your loudspeakers to the PMP2000. Please check the pin assignment of your loudspeakers and cables dependent on the PMP2000 speaker output you choose.

	1+	1-	2+	2-
RIGHT/MONO MAIN	POS	NEG	—	—
LEFT/MONITOR	POS	NEG	—	—
BRIDGE	POS	NEG	—	—

Tab. 4.1: Polarity configuration of speaker connectors

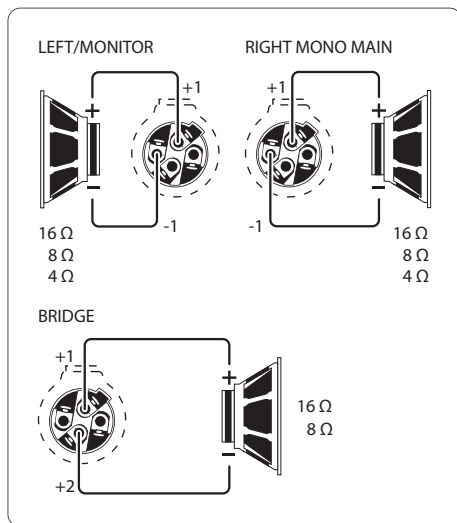


Fig. 4.6: PMP2000 loudspeaker connector assignment

5. Wiring Examples

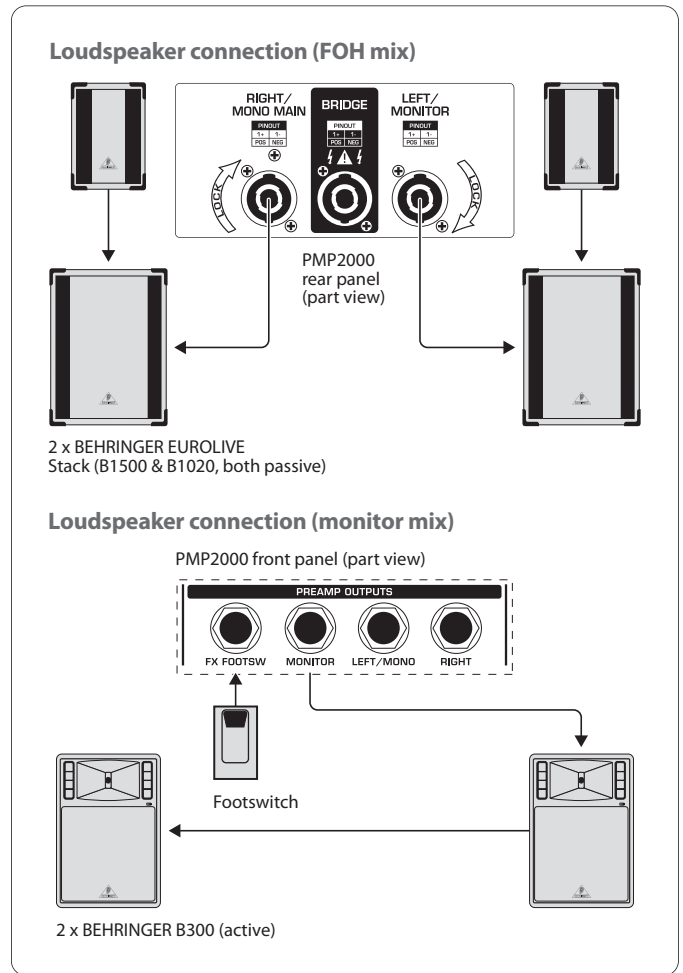


Fig. 5.1: PMP2000 as stereo amplifier (example)

◆ Please set the MODE switch to “LEFT/RIGHT” for this application.

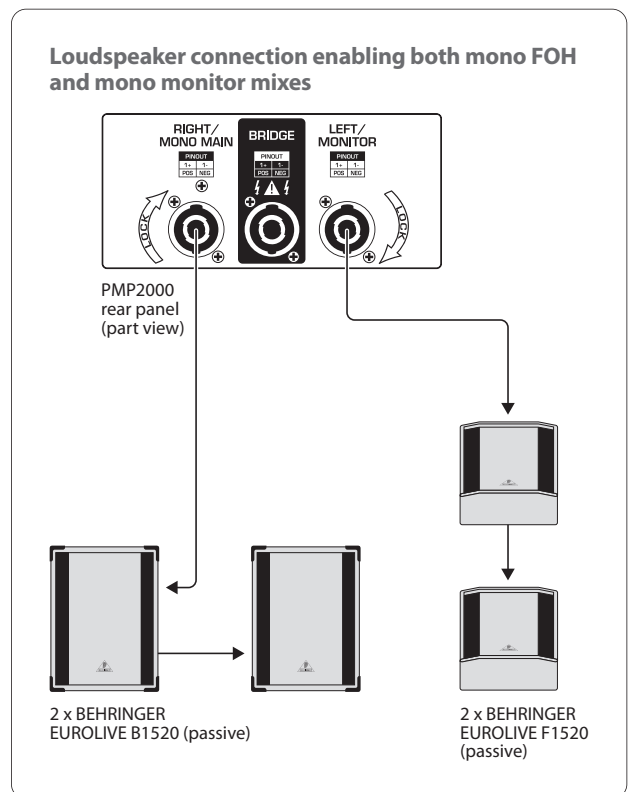


Fig. 5.2: PMP2000 as double mono amplifier (example)

- ◆ For this application, however, please set the MODE switch  to "MON/MAIN"!

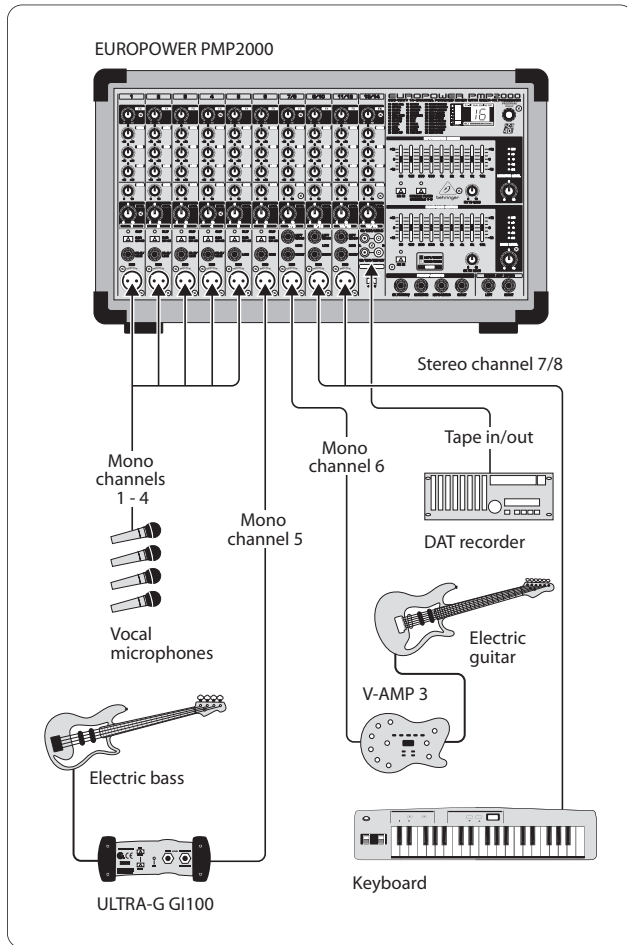


Fig. 5.3: Standard setup (example)

6. Specifications

EN

Mono Inputs

Microphone Inputs

Type	XLR, electronically balanced, discrete input circuit
------	--

Mic E.I.N. (20 Hz - 20 kHz)

@ 0 Ω source resistance	-122 dB / 125 dB A-weighted
--------------------------------	-----------------------------

@ 50 Ω source resistance	-122 dB / 125 dB A-weighted
---------------------------------	-----------------------------

@ 150 Ω source resistance	-121 dB / 124 dB A-weighted
----------------------------------	-----------------------------

Frequency response	<10 Hz - 100 kHz (-1 dB), <10 Hz - >200 kHz (-3 dB)
--------------------	--

Gain	+33 dB, +8 dB with pad
------	------------------------

Max. input level	+12 dBu @ +8 dB gain
------------------	----------------------

Impedance	approx. 2.2 k Ω balanced / approx. 1.1 k Ω unbalanced
-----------	--

Signal-to-noise ratio	110 dB / 114 dB A-weighted (-11 dBu In @ +33 dB gain)
-----------------------	--

Distortion (THD + N)	0.001% / 0.0008% A-weighted
----------------------	-----------------------------

Mono Line Inputs

Type	1/4" TRS connector, balanced
------	------------------------------

Impedance	approx. 80 k Ω balanced, approx. 40 k Ω unbalanced
-----------	---

Max. input level	30 dBu
------------------	--------

Stereo Line Inputs

Type	1/4" TRS connector, unbalanced
------	--------------------------------

Impedance	approx. 40 k Ω unbalanced
-----------	----------------------------------

Max. input level	+28 dBu
------------------	---------

EQ

Low	60 Hz / ± 15 dB
-----	---------------------

Mid	700 Hz / ± 15 dB
-----	----------------------

High	6 kHz / ± 15 dB
------	---------------------

Preamp Outputs Left/Mono & Right

Type	1/4" TRS connector, unbalanced
------	--------------------------------

Impedance	approx. 1.5 k Ω
-----------	------------------------

Max. output level	+21 dBu
-------------------	---------

Power Amp Inputs

Type	1/4" TRS connector, unbalanced
------	--------------------------------

Impedance	approx. 47 k Ω
-----------	-----------------------

Max. input level	+21 dBu
------------------	---------

Monitor Output

Type	¼" TRS connector, unbalanced
Impedance	1.5 kΩ
Max. output level	+21 dBu
DSP	24-bit Texas Instruments
Converter	24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	40 kHz

Main Mix System Data¹**Noise**

Main mix @ -∞, Channel fader -∞	-76 dB / -80 dB A-weighted
Main mix @ 0 dB, Channel fader -∞	-72 dB / -76 dB A-weighted
Main Mix @ 0 dB, Channel fader @ 0 dB	-71 dB / -75 dB A-weighted

Power Amp Specifications**RMS @ 1% THD (Sine Wave), Both Channels Driven:**

8 Ω per channel	165 W
4 Ω per channel	250 W

RMS @ 1% THD (Sine Wave), Bridged Mode:

8 Ω	500 W
-----	-------

Peak Power, Both Channels Driven

8 Ω per channel	225 W
4 Ω per channel	350 W

Peak Power, Bridged Mode

8 Ω	800 W
-----	-------

Loudspeaker Connections

Loudspeaker connector	Professional speaker connectors (compatible to Neutrik Speakon)
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Load Impedance

Left/monitor	4/8/16 Ω
Right/mono main	4/8/16 Ω
Bridge	8/16 Ω

Power Supply**Voltage and Fuse**

USA/Canada	120 V~, 60 Hz T 10 A H 250 V
Europe/U.K./Australia	230 V~, 50 Hz T 5 A H 250 V
China/Korea	220 V~, 50/60 Hz T 6.3 A H 250 V
Japan	100 V~, 50 – 60 Hz T 12 A H 250 V
General export model	230 V~, 50 Hz T 5 A H 250 V 120 V~, 60 Hz T 10 A H 250 V
Power consumption	max. 1 kW
Mains connection	Standard IEC receptacle

Dimensions/Weight

Dimensions (H x W x D)	approx. 11 x 18 ⅞ x 10 ⅝" approx. 280 x 460 x 270 mm
Weight (net)	approx. 30.9 lbs / 14 kg

Measuring conditions:

1: 20 Hz – 20kHz; measured at preamp output. All channels: level controls in center position; EQ flat. Reference = 0 dBu.

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Group Services US Inc.**
Address: **18912 North Creek Parkway,
Suite 200 Bothell, WA 98011,
USA**
Phone/Fax No.: **Phone: +1 425 672 0816
Fax: +1 425 673 7647**

EUROPOWER PMP2000

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.



We Hear You