

# PMH2000

# EUROPOWER

## Technical Specifications

Version 1.5 July 2004

ENGLISH



[www.behringer.com](http://www.behringer.com)



# EUROPOWER

**2 x 250-Watt 10-Channel Power Mixer with 24-Bit Digital Effects Processor**

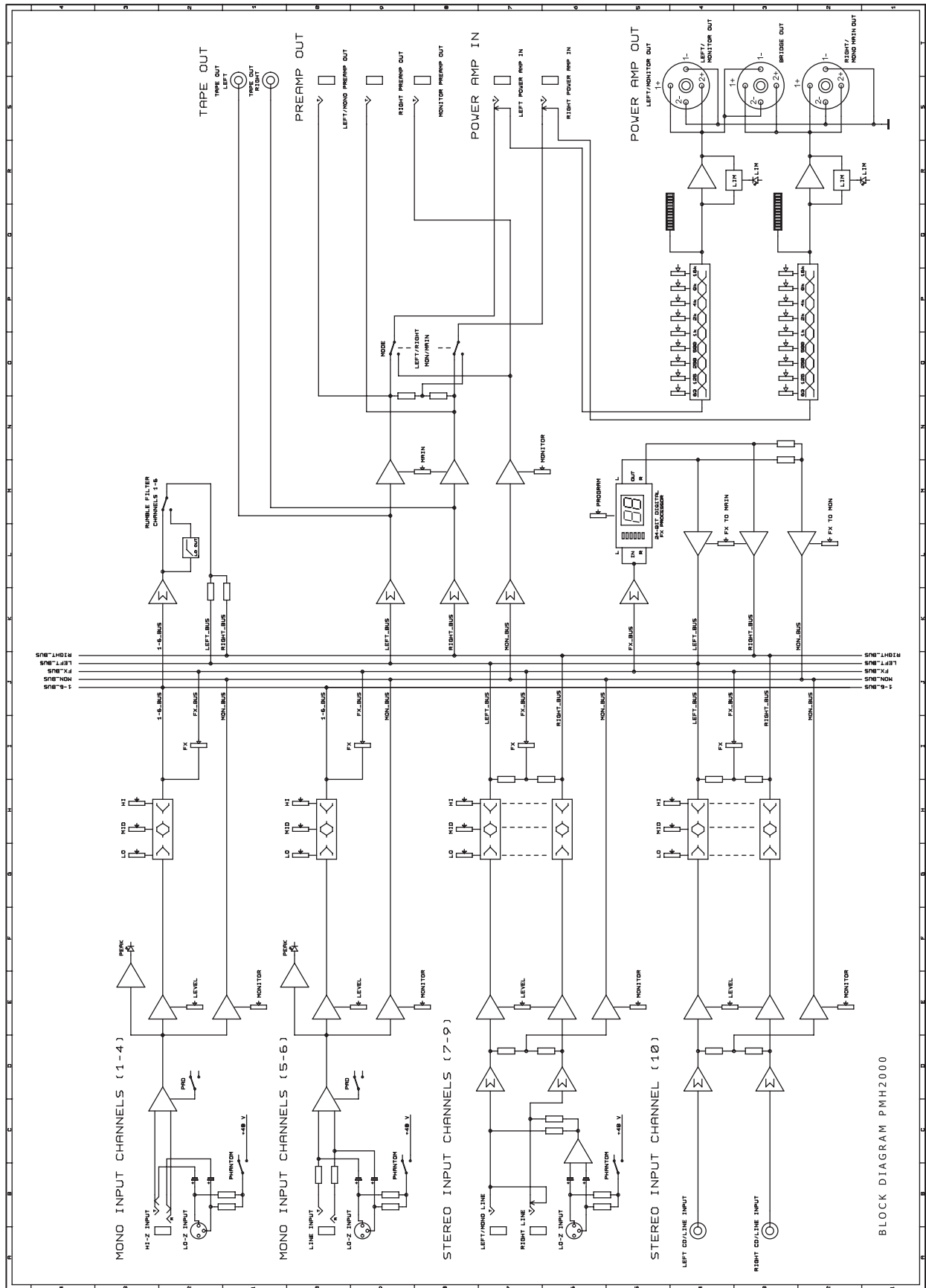
- ▲ 2 x 250-Watt (500 Watts bridge mode) power amp with full protection
- ▲ Ultra low-noise ULN design, highest possible headroom, ultra-transparent audio
- ▲ 10-channel mixer section comprising six mono and three stereo channels plus separate tape return channel
- ▲ 9 state-of-the-art, studio-grade IMP "Invisible" Mic Preamps
- ▲ Switchable +48 V phantom power for condenser microphones
- ▲ 12 balanced high-headroom line inputs
- ▲ Effective, extremely musical 3-band EQ, switchable pad and peak LEDs on all mono channels
- ▲ 9-band stereo graphic EQ allows precise frequency correction of monitor and main mixes
- ▲ Main level and monitor level controls with precise, 5-digit LED level meter
- ▲ Integrated 24-bit digital stereo FX processor with 99 outstanding VIRTUALIZER presets including reverb, delay, chorus, flanger, vocal distortion, vinylizer and more plus 1 kHz test tone generator
- ▲ Optional stereo (main L/R) or double mono (main/monitor) operation possible
- ▲ Multi-functional stereo preamp outputs and stereo power amp inputs for added flexibility
- ▲ Professional speaker connectors (compatible to NEUTRIK® SPEAKON®)
- ▲ Extremely rugged construction ensures long life even under the most demanding conditions
- ▲ Conceived and designed by BEHRINGER Germany. Made in China

NEUTRIK® and SPEAKON® are registered trademarks of their respective owners and are not affiliated with BEHRINGER®.

---

# EUROPOWER PMH2000

## BLOCK DIAGRAM



# EUROPOWER PMH2000

## SPECIFICATIONS

### Mono inputs

#### Microphone inputs

Type	XLR, electronically balanced, discrete input circuit
Mic E.I.N. (20 Hz - 20 kHz)	
@ 0 $\Omega$ source resistance	-122 dB / 125 dB A-weighted
@ 50 $\Omega$ source resistance	-122 dB / 125 dB A-weighted
@ 150 $\Omega$ 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 $\Omega$ balanced / 1.1 k $\Omega$ unbalanced
Signal-to-noise ratio	110 dB / 114 dB A-weighted (-11 dBu In @ +33 dB gain)

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

### Mono line inputs

Type	1/4" TRS connector, balanced
Impedance	approx. 80 k $\Omega$ balanced, 40 k $\Omega$ unbalanced
Max. input level	30 dBu

### Stereo line inputs

Type	1/4" TRS connector, unbalanced
Impedance	approx. 40 k $\Omega$ unbalanced
Max. input level	+28 dBu

### EQ

Low	60 Hz / $\pm 15$ dB
Mid	700 Hz / $\pm 15$ dB
High	6 kHz / $\pm 15$ dB

### Preamp outputs left/mono & right

Type	1/4" TRS connector, unbalanced
Impedance	approx. 1.5 k $\Omega$
Max. output level	+21 dBu

### Power amp inputs

Type	1/4" TRS connector, unbalanced
Impedance	approx. 47 k $\Omega$
Max. input level	+21 dBu

### Monitor output

Type	1/4" TRS connector, unbalanced
Impedance	1.5 k $\Omega$
Max. output level	+21 dBu

### DSP

Converter	24-bit Texas Instruments™ 24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	46.875 kHz

### Main mix system data<sup>1</sup>

Noise	
Main mix @ $-\infty$ , Channel fader $-\infty$	-76 dB / -80 dB A-weighted
Main mix @ 0 dB, Channel fader $-\infty$	-72 dB / -76 dB A-weighted
Main Mix @ 0 dB, Channel fader @ 0 dB	-71 dB / -75 dB A-weighted

### Power amp specifications

Power amp output (Sine @ 1 % THD)	
Stereo mode	250 Watts into 4 $\Omega$ 180 Watts into 8 $\Omega$
Bridge mode	500 Watts into 8 $\Omega$

### Loudspeaker connections

Loudspeaker connector	Professional speaker connectors (compatible to NEUTRIK® SPEAKON®)
-----------------------	---

Load impedance	
Left/monitor	4/8/16 $\Omega$
Right/monomain	4/8/16 $\Omega$
Bridge	8/16 $\Omega$

### Power supply

Voltage	USA/Canada 120 V~, 60 Hz Europe/U.K./Australia 230 V~, 50 Hz Japan 100 V~, 50 - 60 Hz General export model 120/230 V~, 50 - 60 Hz
Power consumption	max. 1 kW
Fuse	100 - 120 V~: T 10 A H 250 V 200 - 240 V~: T 6.3 A H 250 V
Mains connection	Standard IEC receptacle

### Physical/weight

Dimensions (H x W x D)	approx. 11" (280 mm) x 18 1/8" (460 mm) x 10 5/8" (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.

# EUROPOWER PMH2000

---

Technical specifications and appearance subject to change without notice. The information contained herein is correct at the time of printing. The names of companies, institutions or publications pictured or mentioned and their respective logos are registered trademarks of their respective owners. Their use neither constitutes a claim of the trademarks by BEHRINGER® nor affiliation of the trademark owners with BEHRINGER®. BEHRINGER® accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph or statement contained herein. Colours and specification may vary slightly from product. Products are sold through our authorised dealers only. Distributors and dealers are not agents of BEHRINGER® and have absolutely no authority to bind BEHRINGER® by any express or implied undertaking or representation. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording of any kind, for any purpose, without the express written permission of BEHRINGER Spezielle Studiotechnik GmbH. BEHRINGER® is a registered trademark.

ALL RIGHTS RESERVED. © 2004 BEHRINGER Spezielle Studiotechnik GmbH,  
Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Müncheide II, Germany.  
Tel. +49 2154 9206 0, Fax +49 2154 9206 4903

---