

PMH2000

EUROPOWER

Technical Specifications

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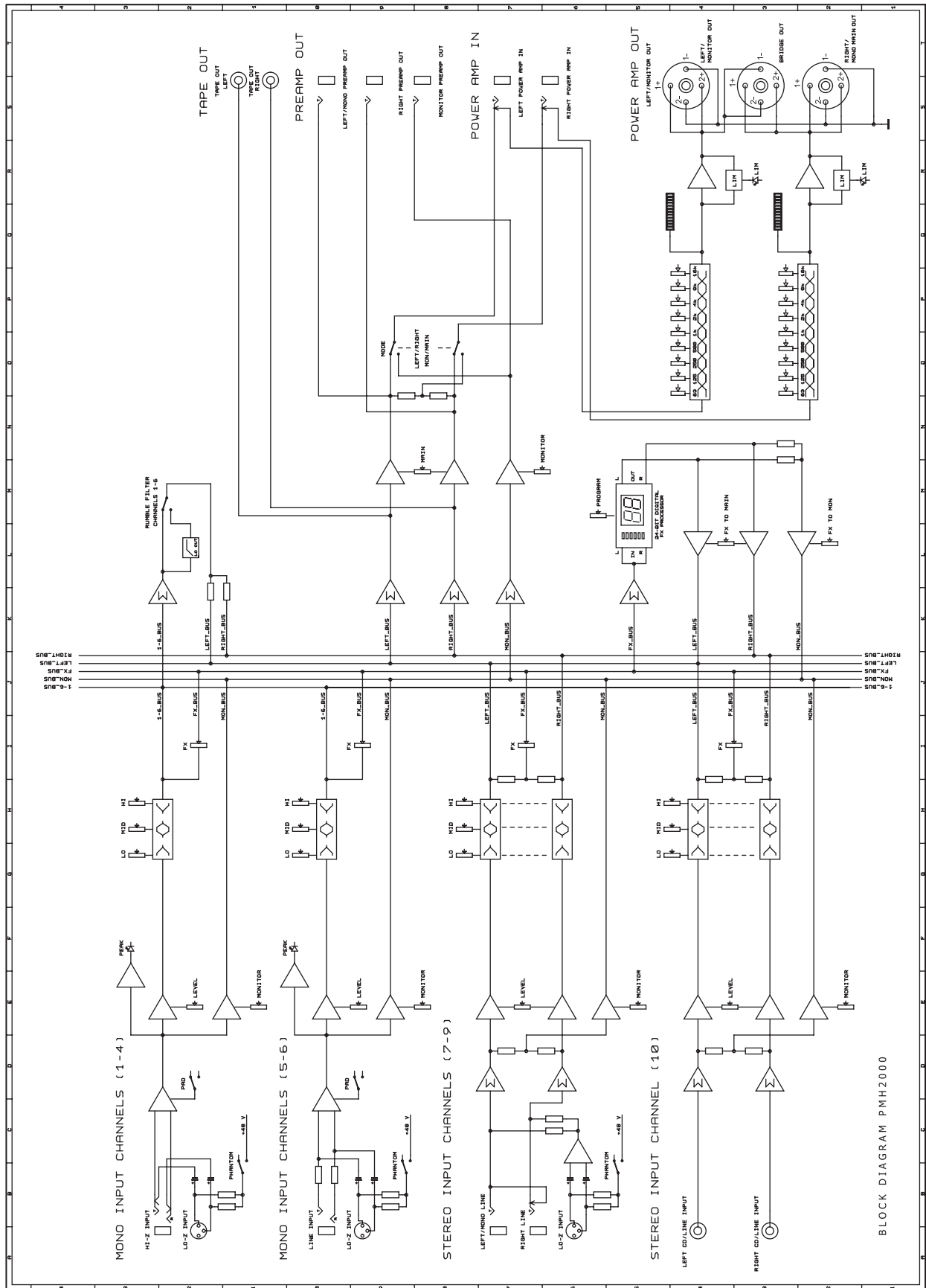
2 x 250-Watt 10-Channel Power Mixer with 24-Bit Digital Effects Processor

- ▲ 2 x 250-Watt (500 Watts bridge mode) power amp with full protection
- ▲ Ultra-low noise ULN design, high headroom, ultra-transparent audio
- ▲ 10-channel mixer section features 6 mono and 3 stereo channels plus separate tape returns
- ▲ 6 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-segment 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
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany

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BLOCK DIAGRAM



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SPECIFICATIONS

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)
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Gain	+33 dB, +8 dB with pad
Max. input level	+12 dBu @ +8 dB gain
Impedance	approx. 2.2 k Ω balanced / 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
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Mono line inputs

Type	1/4" TRS connector, balanced
Impedance	approx. 80 k Ω balanced, 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	1/4" TRS connector, unbalanced
Impedance	1.5 k Ω
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 data¹

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 Ω 180 Watts into 8 Ω
Bridge mode	500 Watts into 8 Ω

Loudspeaker connections

Loudspeaker connector	Professional speaker connectors (compatible to NEUTRIK® SPEAKON®)
Load impedance	
Left/monitor	4/8/16 Ω
Right/mono main	4/8/16 Ω
Bridge	8/16 Ω

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 12 A H 250 V 200 - 240 V~: T 5 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.

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Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Münchheide II, Germany.
Tel. +49 2154 9206 0, Fax +49 2154 9206 4903
