The new BEHRINGER PMP Powered Mixers (2 x 800-Watt stereo, 1600-Watt bridged mode) produce even more power than their predecessors while maintaining a famously low weight and high efficiency. These mixers employ Class-D technology including a new switch-mode power supply, significantly reducing weight and heat. The 20-channel PMP6000 features 12 built-in XENYX preamps, the 16-channel PMP4000 features 8 built-in XENYX mic preamps, and the 10-Channel PMP1680S features 8 high-quality built-in mic preamps. All three models feature 24-bit FX processors, stereo 7-band graphic EQ and our renowned FBQ Feedback Detection System.

What is Class-D Technology?

Instead of operating relatively continuously like Class AB circuits, Class-D amps switch on and off thousands of times per second, delivering power only when needed. In other words, the amplifier is either fully on or fully off, which significantly reduces power losses from the output devices given off as heat. Less heat means our amps don’t need massive heat sinks, and that means we can make them lighter. Our no-compromise design means the new PMP mixers will deliver full power with incredible fidelity all night long, without the need for lengthy rest cycles.

When used in conjunction with switching-mode power supplies, which don’t require huge and heavy transformers, our Class-D amplifiers provide tremendous dynamic punch and superior fidelity. The resulting speaker systems are much lighter, making them easy to transport and set up.

Massive Mono or Stunning Stereo

Our latest PMP give you the choice of 2 x 800-Watt stereo, 2 x 800-Watt dual mono mode (giving you a mono version
of the main signal through one powered output plus a mono version of monitor send signals through the second powered output) or 1,600-Watt bridged mono sound. Whether the center of attention happens to be a folk trio, a speech, or a synth-rock band with mind-boggling stereo patches, PMP mixers can accommodate. This sonic versatility also makes it an excellent choice for churches, where vocals and stereo recordings often share face time.

**Classic Control, State-of-the-Art Sound**

Leave the mic preamps at home, because the quality of sound that was

Continued on next page
once only available in the studio is ready to go wherever you do. Built-in, boutique-caliber mic preamps with switchable +48 V phantom power make it possible to use either dynamic or condenser mics with the PMP Series. The PMP6000 gives you 12 mic inputs while the PMP4000 and PMP1680S each give you 8 mic inputs.

**Built-in Digital Effects Processor**

The new generation of PMP mixers come equipped with 24-bit FX processors, giving you 100 mind-blowing digital effect presets such as delay, chorus and reverb. Apply them to any channel, as well as to the monitors and main output. In case you’re pulling double duty as sound engineer and performer, the FX processors features a footswitch jack for remote on/off. Of course, if you have treasured outboard gear you’ve grown attached to, these mixers can integrate them into the mix while leaving out the built-in FX processor.

**Changing the Channels**

The PMP Series gives you excellent flexibility to accommodate whatever a performance requires. You get 12 (PMP6000) or 8 (PMP4000 and PMP1680S) channels for mics, guitars and other mono instruments. Stereo channels 13-20 (PMP6000), 9-16 (PMP4000) and 7-10 (PMP1680S) are designed to work in pairs as stereo channels, or independently for more mono instruments. All mono channels have 3-band EQ, switchable Low cut filter for eliminating infrasonics, and Clip LEDs to indicate when the input signal is too hot.

A STANDBY switch (PMP6000 and PMP1680S) mutes all mic channels during breaks, preventing the microphones from picking up noise or interference. You can leave all faders untouched while you play a CD via the CD/TAPE inputs.

The FBQ Feedback Detection system automatically shows you which frequencies are causing feedback. Just touch the FBQ button and watch the red LEDs on the 7-band graphic EQ pinpoint show you which frequencies to adjust for optimized sound, without the feedback.

**The Ins and Outs**

Use the CD/TAPE IN RCA inputs to feed in external stereo signals from CD players or tape decks. The VOICE CANCELLER switch eliminates the vocals from pre-recorded music for instant karaoke applications.

CD/TAPE OUT RCA outputs send line-level signals from the mixer to a recording device. The left and right main outputs can be used for a variety of purposes, including connecting more power amps. Connect monitor power amps or active monitor speakers to the MON SEND output. Powered outputs on these mixers are available in professional Speakon-compatible format for secure operation.

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Small, Simple, Superb

Medium-sized events call for a lightweight (PMP6000: 13.1 kg/28.9 lbs; PMP4000: 0.4 kg/22.9 lbs; PMP1680S: 9.9 kg/28.8 lbs), easy-to-use powered mixer. BEHRINGER powered mixers are the most efficient, affordable mixers for the job, and are even suitable for use as pure analog mixers or as pure power amplifiers. With new technological advantages and incredible built-in features, it’s easier than ever to lend exceptional sound quality to all kinds of public performances.
Setup in Stereo Mode

Setup in Bridge Mode

Warning: Do not connect a loudspeaker to OUTPUT A in Bridge Mode

8 Ohms minimum

EUROPOWER
PMP6000
PMP4000
PMP1680S
Setup in Mon/Mono Mode

EUROPOWER
PMP6000
PMP4000
PMP1680S

Amplifier OUTPUTs (on rear panel)
A (monitors)
B (mains)

Bass Guitar
Electric Guitar
ULTRA-DI DH400P
VT15FX

Passive loudspeakers
VP1220F
VP1520

Passive monitors

XM8500
XM8500
XM8500

BEHRINGER C-4
BEHRINGER C-4

PMP1680S

PMP6000/PMP4000
PMP1680S

XENXYX1204USB

Setup in Mon/Mono Mode

Amplifier OUTPUTs (on rear panel)
A (monitors)
B (mains)

Bass Guitar
Electric Guitar
ULTRA-DI DH400P
VT15FX

Passive loudspeakers
VP1220F
VP1520

Passive monitors

XM8500
XM8500
XM8500

BEHRINGER C-4
BEHRINGER C-4

PMP1680S

XENXYX1204USB
MICROPHONE INPUTS

PMP6000/PMP4000
Type XLR, electronically balanced input circuit

Mic E.I.N. (20 Hz - 20 kHz)
PMP6000/PMP4000
@ 0 Ohm source resistance -134 dB/136 dB A-weighted
@ 50 Ohm source resistance -131.5 dB/134 dB A-weighted
@ 150 Ohm source resistance -129 dB/155 dB A-weighted

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

Gain +10 dB, +60 dB

Max. input level +12 dBu @ +10 dB gain

Impedance approx. 2.6 k Ohm balanced/
1.3 k Ohm unbalanced

Signal-to-noise ratio 109 dB/112 dB A-weighted
(0 dBu In @ +10 dB gain)

Noise (THD + N) 0.002%/0.0018% A-weighted

STEREO LINE INPUTS

PMP6000/PMP4000
Type ¼" TRS connectors, unbalanced
Impedance > 3.6 k Ohm
Max. input level +22 dBu

EQUALIZER

PMP6000/PMP4000
Low 80 Hz/+/-15 dB

PMP4000
Mid 2.5 kHz/+/-15 dB

PMP6000
Mid 100 Hz - 8 kHz/+/-15 dB

PMP6000/PMP4000
High 12 kHz/+/-15 dB

2 TRACK INPUT

PMP6000/PMP4000
Type RCA

PREAMP OUTPUTS

PMP6000/PMP4000
MAIN
Type ¼" TRS connectors, unbalanced
Impedance approx. 150 Ohm, unbalanced
Max. output level +21 dBu

MONITOR
PMP6000/PMP4000
Type ¼" TRS connectors, unbalanced
Impedance approx. 150 Ohm, unbalanced
Max. output level +21 dBu

STEREO OUTPUTS

PMP6000/PMP4000
Type ¼" TRS connectors, unbalanced
Impedance approx. 150 Ohm, unbalanced
Max. output level +21 dBu

PREAMP OUTPUTS

PMP6000/PMP4000
MAIN
Type ¼" TRS connectors, unbalanced
Impedance approx. 150 Ohm, unbalanced
Max. output level +21 dBu

MONITOR
PMP6000/PMP4000
Type ¼" TRS connectors, unbalanced
Impedance approx. 150 Ohm, unbalanced
Max. output level +21 dBu

LOUDSPEAKER OUTPUTS

PMP6000/PMP4000
Load impedance:
MAIN L/R 4 - 8 Ohm
MONITOR/MAIN MONO 4 - 8 Ohm
MAIN MONO/MAIN MONO 4 - 8 Ohm
BRIDGE 8 - 16 Ohm

DSP

PMP6000/PMP4000
Converter 24-bit Delta-Sigma, 64/128-times oversampling
Dynamics D/A 90 dB
Sampling rate 46.875 kHz
Delay Time max. 5 secs
Signal run time approx. 1.5 ms
(Line In > Line Out)

DISPLAY

PMP4000
Type 2-digit, 7-segment LED

PMP6000
Type 2 x 2-digit, 7-segment LED

OUTPUT POWER

RMS @ 1% THD, both channels driven:
PMP6000
8 Ohm per channel 300 W
4 Ohm per channel 600 W

RMS @ 1% THD, bridged mode:
PMP6000/PMP4000
8 Ohm 1,200 W

Peak Power, both channels driven:
PMP6000/PMP4000/PMP1680S
8 Ohm per channel 400 W
4 Ohm per channel 800 W

Peak Power, bridged mode:
PMP6000/PMP4000
8 Ohm 1,600 W

POWER SUPPLY

Mains voltage

PMP6000/PMP4000
USA/Canada 120 V~, 60 Hz
China/Korea 220 V~, 50/60 Hz
Europe/Australia 230 V~, 50 Hz
Japan 100 V~, 50 - 60 Hz
Fuse 100 - 120 V~ T 10 A H 250 V
Fuse 220 - 240 V~ T 6.3 A H 250 V

POWER CONSUMPTION

PMP6000/PMP4000
Power consumption 1,050 W
Mains connector IEC standard receptacle

DIMENSIONS/WEIGHT

PMP4000
Dimensions (H x W x D) 4 7/8 x 18 3/4 x 18 1/8"
122 x 476 x 460 mm

PMP6000
Dimensions (H x W x D) 4 7/8 x 23 1/2 x 19 5/8"
122 x 596 x 496 mm

PMP4000
Weight 22.9 lbs/10.38 kg

PMP6000
Weight 28.9 lbs/13.1 kg
### MICROPHONE INPUTS

**Type:** XLR, electronically balanced input circuit

**Mic E.I.N. (20 Hz - 20 kHz)**
- @ 0 Ohm source resistance: -112 dB/114 dB A-weighted
- @ 50 Ohm source resistance: -112 dB/114 dB A-weighted
- @ 150 Ohm source resistance: -112 dB/114 dB A-weighted

**Frequency response:**
- < 10 Hz - 200 kHz (-1 dB)
- < 10 Hz - > 200 kHz (-3 dB)

**Gain:** +30 dB, +10 dB with pad

**Max. input level:** +12 dBu @ +10 dB gain

**Impedance:** approx. 2.2 kOhm balanced/
1.1 kOhm unbalanced

**Signal-to-noise ratio:**
- 110 dB/114 dB A-weighted (0 dBu In @ +10 dB gain)

**Noise (THD + N):** 0.001%/0.0007% A-weighted

### MONO LINE INPUTS

**Type:** ¼" TS connectors, balanced

**Impedance:** approx. 20 kOhm, balanced

**Max. input level:** +21 dBu

### STEREO LINE INPUTS

**Type:** ¼" TRS connectors, unbalanced

**Impedance:** approx. 100 kOhm, unbalanced

**Max. input level:** +21 dBu

### EQUALIZER

**Low:** 80 Hz +/– 15 dB

**Mid:** 2.5 kHz +/– 15 dB

**High:** 12 kHz +/– 15 dB

### CD/TAPE INPUT

**Type:** RCA

**Impedance:** approx. 10 kOhm

### PREAMP OUTPUTS

**MAIN**

**Type:** ¼" TS connectors, unbalanced

**Impedance:** approx. 150 Ohm, unbalanced

**Max. output level:** +21 dBu

**MONITOR**

**Type:** ¼" TS connectors, unbalanced

**Impedance:** approx. 150 Ohm, unbalanced

**Max. output level:** +21 dBu

**STEREO OUTPUTS**

**Type:** ¼" TRS connectors, unbalanced

**Impedance:** approx. 150 Ohm, unbalanced

**Max. input level:** +21 dBu

**Type:** RCA

**Impedance:** approx. 1 kOhm

**Max. input level:** +21 dBu

### LOUDSPEAKER OUTPUTS

**Type:** Twist-lock professional speaker connector

### LOAD IMPEDANCE

- **MAIN L/R:** 4 - 8 Ohm
- **MONITOR/MAIN MONO:** 4 - 8 Ohm
- **MAIN MONO/MAIN MONO:** 4 - 8 Ohm
- **BRIDGE:** 8 - 16 Ohm

### DSP

**Converter:** 24-bit Delta-Sigma, 64/128-times oversampling

**Dynamics D/A:** 90 dB

**Sampling rate:** 40 kHz

**Delay Time:** max. 5 secs

**Signal run time:** approx. 1.5 ms (Line In > Line Out)

### DISPLAY

**Type:** 2 x 2-digit, 7-segment LED

### OUTPUT POWER

**RMS @ 1% THD, both channels driven:**
- 8 Ohm per channel: 300 W
- 4 Ohm per channel: 600 W

**RMS @ 1% THD, bridged mode:**
- 8 Ohm: 1200 W

**Peak Power, both channels driven:**
- 8 Ohm per channel: 400 W
- 4 Ohm per channel: 800 W

**Peak Power, bridged mode:**
- 8 Ohm: 1600 W

### POWER SUPPLY

**Mains voltage:**
- USA/Canada: 120 V~, 60 Hz
- China/Korea: 220 V~, 50/60 Hz
- Europe/Australia: 230 V~, 50 Hz
- Japan: 100 V~, 50 - 60 Hz

**Fuse:**
- USA/Canada: 10 A H 250 V
- China/Korea: 6.3 A H 250 V

**Power consumption:**
- 1050 W

### DIMENSIONS/WEIGHT

**Dimensions (H x W x D):**
- 12 2/5 x 18 1/10 x 8 3/5" = 315 x 460 x 220 mm

**Weight:**
- 21.8 lbs/9.9 kg

*Please note these specifications are preliminary and conceptual in nature, and as such are subject to change as product development progresses. This information is supplied for market research purposes only and is not to be made public in any manner. This document is solely the property of The MUSIC Group, or one of its subsidiaries, and must be surrendered upon request of the owner.*