

Power
Mate

**MORE POWER
EFFECTS
EXTRAS**



**POWERMATE
MIXERS**





The features and performance of the PowerMate mixers are unique, offering more power, more effects, and more extras. Compared to conventional power mixers, the Power Mates offer substantially higher output power and dynamic reserve. The power amps employ dynamic limiters and additional protection and processor functions. Dynacord's patented LPN filters eliminate faults in the transient response of typical PA speaker systems. Extremely fast audio processors constantly monitor the internal operational status.

All PowerMate models furnish two separately operating digital effect units with 32-bit algorithm processing. They provide high-quality sound and performance comparable to high-end studio effect equipment.

The following effects are right at your fingertips: room, plate, echo reverb, chorus reverb, mono/stereo delays, modulated delay effects like chorus and flanging, and many other exciting effects.

The 2 x 99 presets are conveniently activated using the Up/Down keys.

The Mic/Line channels provide extensive features including a huge number of useful extras:

- Phantom Power
- Inserts, Gain Control
- Signal Present/Peak LEDs
- 3-Fold Tone Control with parametric mids control
- AUX Busses 1, 2, and 3
- Prefade-Listen

Another unique specialty of the MIC/Line channels is the Vocal Voicing Filter. This switchable 80 Hz Lo-Cut filter attenuates the very low frequencies that can interfere with sonic clarity.

The Mic/Stereo Line channels offer some different features: individual gain controls for Mic and Line signals instead of Lo-Cut and Vocal Voicing Switches, 3-fold tone control, and balance control instead of PAN controls.

The AUX 3 monitor bus incorporates a switchable anti-feedback filter with sweepable center frequency from 80 Hz to 7.7 kHz.

The master section of the PowerMates includes a wide selection of useful features:

- Effect Returns
- AUX 3 Send via Fader
- Additional Mono Master
- 2 x 7-Band Equalizer
- 2 x 10 LED Master-Display
- Stereo Return
- 2-Track Return Standby Switch

To ensure quick and easy operation even with dimmed ambient lights, an optional (12V/2.4W) XLR-gooseneck Litlite can be fitted onto every PowerMate.

Each PowerMate ships with a rigid metal protective cover.

Recessed carrying handles on both sides permit easy and comfortable handling.



10 MIC/Line channels
(4 stereo)

PowerMate 1000

The PowerMate 1000 is already a classic among power mixers. One year after being introduced to the market, the GDM (Gesamtverband Deutscher Musikalienhändler) named it the 1999 Product of the Year. The PowerMate 1000 has also received numerous other awards. With many features, effects of outstanding quality and 2 x 500 watts output capacity, the PowerMate 1000 is the ideal choice for a wide range of applications, from the one-man-band keyboarder through small ensembles to permanent installations. With amazing sound, flexibility, and compactness, the PowerMate 1000 is the perfect plug-and-play solution.



6/8 MIC/Line channels
(2 stereo)

PowerMate 600

The PowerMate 600 carries on the tradition of power mixers begun by DYNACORD about 50 years ago. The concept of integrating a mixer, power amplifier, and FX unit into a single, compact enclosure without compromising the performance of each individual part reaches a new peak in the PowerMate 600.

Never before has such compact size included such power, features, and sound for such a low price. Despite the PowerMate 600's extremely small size, it delivers 2 x 300 watts into 4 ohms, offering immense dynamic reserve at very low distortion.

PowerMate 1600

The user who needs more than the PowerMate 1000's 10 channels should take a closer look at the PowerMate 1600. While offering 16 channels in the mixer section, where each of the four stereo channels are designed for the connection of microphones, its entire master section—including the integrated FX unit, the 2 x 500 watts power amp, the LPN filters and all the embodied protection circuitry—is identical to the PowerMate 1000.



16 MIC/Line channels
(4 stereo)



22 MIC/Line channels
(4 stereo)

PowerMate 2200

Ideally suited to bigger sound reinforcement applications, the PowerMate 2200 offers more power and 22 channels; enough to meet more demanding requirements while still relying on the operational comfort and sound of the PowerMate Series.

Beside 18 microphone channels and 4 stereo inputs, the 2200's compact mixer frame also houses two digital multi-FX units, a stereo equalizer, and a LitLight connector. A transportation cover is included. Up to 22 mics can be connected through the four stereo channels, which also accept mic level sources.

The newly-designed integrated power amp, which includes the protection and limiter circuitry for which the PowerMate Series is famous, provides an output power capacity of 2 x 700 watts.



Specifications



SPECIFICATIONS

	PowerMate 600	PowerMate 1000	PowerMate 1600	PowerMate 2200
Maximum Midband Output Power, 1 kHz, THD \leq 1% into 4 Ω	2 x 340 W	2 x 570 W	2 x 570 W	2 x 760 W
into 8 Ω	2 x 200 W	2 x 340 W	2 x 340 W	2 x 430 W
Rated Output Power, 20 Hz – 20 kHz, THD \leq 0.2% into 4 Ω	2 x 300 W	2 x 500 W	2 x 500 W	2 x 700 W
into 8 Ω	2 x 150 W	2 x 250 W	2 x 250 W	2 x 350 W
Maximum Output Voltage of power amplifier, no load	43 Vrms	58 Vrms	58 Vrms	63 Vrms
THD at 1kHz, MBW=80kHz				
MIC input to Main L/R output, +16 dBu	< 0.006%	< 0.006%	< 0.006%	< 0.006%
Power amplifier input to Speaker L/R output	< 0.08%	< 0.05%	< 0.05%	< 0.05%
DIM 30, power amplifier	< 0.03%	< 0.015%	< 0.015%	< 0.015%
IMD-SMPTE, power amplifier, 60Hz, 7 kHz	< 0.2%	< 0.15%	< 0.15%	< 0.15%
Frequency Response, -3dB ref. 1kHz				
Any input to any Mixer output	15 Hz – 60 kHz	15 Hz – 60 kHz	15 Hz – 60 kHz	15 Hz – 60 kHz
Any input to Speaker L/R output	30 Hz – 40 kHz	30 Hz – 40kHz	30 Hz – 40 kHz	30 Hz – 40 kHz
Crosstalk Damping, 1kHz				
Fader and AUX-Send attenuation	> 80 dB	> 80 dB	> 80 dB	> 80 dB
Power amplifier L-R	—	> 60 dB	> 60 dB	> 60 dB
Channel to channel	> 70 dB	> 70 dB	> 70 dB	> 70 dB
CMRR, MIC input, 1kHz	> 80 dB	> 80 dB	> 80 dB	> 80 dB
Input Sensitivity, all level controls in max. position				
Mic Input	-74 dBu (155 μ V)	-74 dBu (155 μ V)	-74 dBu (155 μ V)	-74 dBu (155 μ V)
Line Input (Mono)	-54 dBu (1.55mV)	-54 dBu (1.55mV)	-54 dBu (1.55mV)	-54 dBu (1.55mV)
Line Input (Stereo)	-34 dBu (15.5mV)	-34 dBu (15.5mV)	-34 dBu (15.5mV)	-34 dBu (15.5mV)
Power Amplifier Input	+6 dBu (1.55V)	+6 dBu (1.55V)	+6 dBu (1.55V)	+6 dBu (1.55V)
Maximum Level, mixing desk				
MIC inputs	+ 11 dBu	+ 11 dBu	+ 11 dBu	+ 11 dBu
Line inputs	+ 30 dBu	+ 30 dBu	+ 30 dBu	+ 30 dBu
All other inputs	+ 20 dBu	+ 20 dBu	+ 20 dBu	+ 20 dBu
Record Send output	+ 14 dBu	+ 16 dBu	+ 16 dBu	+ 16 dBu
All other outputs	+ 20 dBu	+ 20 dBu	+ 20 dBu	+ 20 dBu
Input Impedances				
MIC	1.8 k Ω	1.8 k Ω	1.8 k Ω	1.8 k Ω
Insert Return	-	2.2 k Ω	2.2 k Ω	2.2 k Ω
EQ Input and 2 Track Return	10 k Ω	8 k Ω	8 k Ω	8 k Ω
All other inputs	> 15 k Ω	> 15 k Ω	> 15 k Ω	> 15 k Ω
Output Impedances				
Record Send	1 k Ω	1 k Ω	1 k Ω	1 k Ω
Phones	47 Ω	47 Ω	47 Ω	47 Ω
All other outputs	75 Ω	75 Ω	75 Ω	75 Ω
Equivalent Input Noise, MIC Input, A-weighted, 150 Ω	-130 dBu	-130 dBu	-130 dBu	-130 dBu
Noise, Channel inputs to Main L/R outputs, A-weighted				
Master fader down	-90 dBu	-92 dBu	-92 dBu	-92 dBu
Master fader 0 dB, Channel fader down	-89 dBu	-89 dBu	-87 dBu	-85 dBu
Master fader 0 dB, Channel fader 0 dB, Channel gain unity	-83 dBu	-83 dBu	-81 dBu	-79 dBu
Signal/Noise-Ratio, power amplifier, A-weighted	105 dB	104 dB	104 dB	106 dB
Equalization				
LO Shelving	\pm 15 dB / 60 Hz	\pm 15 dB / 60 Hz	\pm 15 dB / 60 Hz	\pm 15 dB / 60 Hz
MID Peaking, mono inputs	-	\pm 15dB/100Hz...8 kHz	\pm 15dB/100Hz...8 kHz	\pm 15dB/100Hz...8 kHz
MID Peaking, stereo inputs	\pm 12 dB / 2.4 kHz	\pm 12 dB / 2.4 kHz	\pm 12 dB / 2.4 kHz	\pm 12 dB / 2.4 kHz
HI Shelving	\pm 15 dB / 12 kHz	\pm 15 dB / 12 kHz	\pm 15 dB / 12 kHz	\pm 15 dB / 12 kHz
Master EQ, 2x7-band	\pm 10 dB	\pm 10 dB	\pm 10 dB	\pm 10 dB
Power Consumption at 1/8 maximum output power, 4 Ω	450 W	600 W	670 W	1100 W
Dimensions, (mm)				
Width	455.5	508.5	667.5	826.5
Height	175.8	210.3	210.3	210.3
Depth	340.6	478.7	478.7	478.7
Weight, including lid	28,66 lbs/13 kg	44,09 lbs/20 kg	52,91 lbs/24 kg	63,93 lbs/29 kg
Optional				
Rack-Mount-Kit PM600 (NRS90239); Wall-Mount-Kit PM600 (NRS90242); Rack-Mount-Kit PM1000 (NRS90220); Gooseneck Lamp; 12V/2.4W; 12"; XLR; Footswitch FS11; MP7; Transition Fader (NRS 90261)				

Technical Specifications: Mixing Section in rated condition, Unity Gain (MIC Gain 20 dB), all faders position 0 dB, all pots in mid position, Master fader +6dB, Amplifier rated output power into 8 ohms, one channel driven, unless otherwise specified.