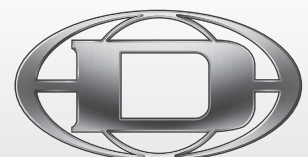




PowerMate 600-2 / MP 7

POWERED MIXERS

Mobile Audio | Concert Sound | Fixed Installation | Pro Entertainment



DYNACORD
GERMAN ENGINEERING EXCELLENCE

THE NAME POWERMATE HAS LONG BEEN SYNONYMOUS WITH AN ENTIRE BREED OF PRODUCTS, AND STANDS FOR PROFESSIONAL, COMPROMISE-FREE EQUIPMENT AND RELIABILITY. WITH WELL OVER 100,000 UNITS SOLD, DYNACORD POWERMATES ARE AMONG THE MOST IMPORTANT PRODUCTS IN THE PRO AUDIO SECTOR WORLDWIDE AND HAVE A INDISPUTABLE CLAIM TO TOP-OF-THE-LINE STATUS.





■ **Safe and compact transportation, quick and simple setting-up, and uncomplicated operation – these are the salient characteristics of the most compact members of the PowerMate family: the PowerMate 600-2 and MP 7.**

Possible uses range from typical live music applications to the rental business and high-quality fixed installation in bars, restaurants, clubs and schools, as well as professional multimedia applications.

The two compact systems differ mainly in their input and mixer sections, their effects units, equalizers and power amplifiers being identical. The PowerMate 600-2, with its 6 Mic and 2 Stereo inputs, is optimized primarily for mobile live use by solo performers and small bands, whilst the MP 7, with its 3 Mic and 2x 4 Stereo inputs with crossfaders, is geared more towards entertainers and mobile DJ applications.





PowerMate 600-2

PERFECT SOLUTION

■ With 6 Mic/Line and 2 Stereo/Line channels, 2 mixable 24-bit effects units, a 7-band master equalizer and an integrated 2x 340-watt power amplifier, the PowerMate 600-2 is the ultimate all-round solution for a great many applications.

It is ideally suited as a complete solution not only for solo performers but also for small bands. Safe and compact transportation, quick and simple setting-up, and uncomplicated operation – these are the salient characteristics of the most compact member of the PowerMate family.



■ MIXING

The features of a professional mixing console in a very compact format. Its 6 Mic/Line as well as 2 Stereo/Line channels each with a 3-band equalizer, separate effects and monitor buses, 7-band master EQ and level meter in each channel as well as the master section turn every sound reinforcement application into pure pleasure.

Sensible ancillary features such as a switchable Stand-By function allow the operation during pauses of connected tape- or MD-recorders without any need to alter the overall mix.

Further features include a separately controlled Mono output to provide sound reinforcement to adjoining rooms, and a separately controlled headphone output.

■ POWER

Despite its compact dimensions, the PowerMate 600-2 disposes over a power output of 2x 340 watts into 4 ohms for large dynamic reserves with unusually low distortion and intermodulation values and is capable of driving up to three 8-ohm cabinets per side without any problem.

All the familiar protections afforded by DYNACORD's 19-inch amplifiers are present here, as well as LPN filter technology for particularly punchy bass reproduction, ultra-fast audio limiters, and the legendary 30% headroom of the integrated power supply.

■ EFFECTS

Two parallel and separately controlled 24-bit stereo digital effects units with 48-bit algorithms offer a total of 198 live-optimized presets of studio quality. Up/Down keys let you select swiftly from a wide variety of hall- and plate-reverbs, echo-reverb, mono/stereo delay and a whole series of special effects.

Preferred start presets for each effects unit can be saved in Programming mode so as to be instantly available next time you power up the device. The return signals can be switched on and off either at the device or by footswitch.

Technical Specifications PowerMate 600-2

Type / Name	PowerMate 600-2
Maximum Midband Output Power, 1 kHz, THD ≤ 1%, Dual Channel into 4 Ω / 8 Ω	2 x 270 W / 180 W
Maximum Midband Output Power, 1 kHz, THD ≤ 1%, Single Channel into 4 Ω / 8 Ω	2 x 340 W / 200 W
Rated Output Power, Single Channel 20 Hz ... 20 kHz, THD ≤ 0.2 % into 4 Ω / 8 Ω	2 x 300 W / 150 W
Maximum Output Voltage of power amplifier, no load	43 Vrms
THD at 1 kHz, MBW = 80 kHz	
MIC input to Main L/R output, +16 dBu	< 0.006%
Power amplifier input to Speaker L/R output	< 0.08 %
DIM 30, power amplifier	< 0.03 %
IMD-SMPTE, power amplifier, 60 Hz, 7 kHz	< 0.2 %
Frequency Response, -3 dB ref. 1 kHz	
Any input to any Mixer output	15 Hz ... 60 kHz
Any input to Speaker L/R output	30 Hz ... 40 kHz
Crosstalk, 1 kHz	
Fader and AUX-Send attenuation	> 80 dB
Channel to channel	> 80 dB
CMRR, MIC input, 1 kHz	> 80 dB
Input Sensitivity, all level controls in max. position	
MIC Input	- 74 dBu (155 μV)
Line Input (Mono)	- 54 dBu (1.55 mV)
Line Input (Stereo)	- 34 dBu (15.5 mV)
Power Amplifier Input	+ 6 dBu (1.55 V)
Maximum Level, mixing desk	
MIC inputs	+ 11 dBu
Mono Line inputs	+ 30 dBu
Stereo Line inputs	+ 20 dBu
All other inputs	+ 20 dBu
Record Send output	+ 14 dBu
All other outputs	+ 20 dBu
Input Impedances	
MIC	1.8 kΩ
Insert Return	10 kΩ
EQ Input and 2 Track Return	15 kΩ
All other inputs	> 15 kΩ
Output Impedances	
Record Send	1 kΩ
Phones	47 Ω
All other outputs	75 Ω
Equivalent Input Noise, MIC Input, A-weighted, 150 Ω	- 130 dBu
Noise, Channel inputs to Main L/R outputs, A-weighted	
Master fader down	- 90 dBu
Master fader 0 dB, Channel fader down	- 89 dBu
Master fader 0 dB, Channel fader 0 dB, Channel gain unity	- 83 dBu
Signal/Noise-Ratio, power amplifier, A-weighted	105 dB
Equalization	
LO Shelving	± 15 dB / 60 Hz
MID Peaking, mono inputs	
MID Peaking, stereo inputs	± 12 dB / 2.4 kHz
HI Shelving	± 15 dB / 12 kHz
Master EQ, 2x7-band	± 10 dB
Phantom Power	24V DC
Mains Voltage	100V / 120V / 230V / 240V AC / 50-60Hz
Power Consumption at 1/8 maximum output power, 4 Ω	450 W
Dimensions, (mm) (width x height x depth)	455,5 x 175,8 x 340,6
Weight (including lid)	13 kg

ACCESSORIES

With the RMK-600 Rack Mount Kit, available as a special accessory, the PowerMate 600-2 can be installed without difficulty in a 19" rack or table top.

The two effects devices can be switched on and off using the FS11 footswitch with its LED status indicator.



MP 7

THE PERFECT TOOL

■ With 3 Mic/Line channels, a talk-over function in Channel 1, 2x 4 Stereo/Line channels for CD/ MC- or record-players with individually assignable crossfaders, 2 mixable 24-bit effects units with 99 presets each, a 7-band

master graphic equalizer and an integrated 2x 340-watt power amplifier, the MP 7 is the perfect tool for all entertainers, mobile DJs and professional multimedia applications.

A robust handle and a metal cover supplied as standard afford reliable protection and maximum carrying comfort for a lightweight tipping the scales at a mere 13 kg.





■ MIXING

The first of the three Mic/Line channels is equipped with a special TALK button, which, when pressed, automatically lowers the volume in Channels 2-7 by 15dB. This allows you to make an announcement without disturbing any of the settings of the console.

The TRANSITION FADER in the Master section provides a convenient way of crossfading between two channels. Using the Assign switch, you can assign any of the four stereo channels to either the X or the Y side of the fader.

Two of the Stereo Line channels are additionally equipped with a high-quality phono equalizer for the connection of turntables. The 3-band tone controls of the Line channels are specifically designed to suit a wide variety of signal sources and offer in each case an adjustment range of -30 to +9 dB.

■ MASTER

A 7-band graphic equalizer, separately controlled Master B, Mono and Subwoofer outputs (the latter with a low-pass filter) as well as perfect headphone control thanks to a dedicated 20mm Transition Fader and dual headphone sockets all make for stress-free operation on the highest level.

An impressive power output of 2x 340 watts into 4 ohms and DYNACORD's well-known LPN processing provide for high dynamic reserves and guarantee powerful sound with plenty of punch in the bass. All the internal protections are designed to allow a total of six 8-ohm cabinets (3 per channel) to be driven without any problem.

■ EFFECTS

Two parallel and separately controlled 24-bit stereo digital effects units with 48-bit algorithms offer a total of 198 live-optimized presets of studio quality. Up/Down keys let you select swiftly from a wide variety of hall- and plate-reverbs, echo-reverb, mono/stereo delay and a whole series of special effects.

Preferred start presets for each effects unit can be saved in Programming mode so as to be instantly available next time you power up the device. The return signals can be switched on and off either at the device or by footswitch.



ACCESSORIES

A wide variety of applications can be realized with the help of optionally available rack- and wall-mount kits including tabletop installation.

A dedicated XLR socket is provided for the optionally available 2.4-watt gooseneck lamp, which allows you to work with confidence in poorly lit environments.

Technical Specifications MP 7

Type / Name	MP 7
Maximum Midband Output Power, 1 kHz, THD ≤ 1%, Dual Channel into 4 Ω / 8 Ω	2 x 270 W / 180 W
Maximum Midband Output Power, 1 kHz, THD ≤ 1%, Single Channel into 4 Ω / 8 Ω	2 x 340 W / 200 W
Rated Output Power, Single Channel 20 Hz ... 20 kHz, THD ≤ 0.2 % into 4 Ω / 8 Ω	2 x 300 W / 150 W
Maximum Output Voltage of power amplifier, no load	43 Vrms
THD at 1 kHz, MBW = 80 kHz MIC input to Main L/R output, +16 dBu Power amplifier input to Speaker L/R output DIM 30, power amplifier IMD-SMPTE, power amplifier, 60 Hz, 7 kHz	< 0.006% < 0.08 % < 0.03 % < 0.2 %
Frequency Response, -3 dB ref. 1 kHz Any input to any Mixer output Any input to Speaker L/R output	15Hz ... 60 kHz 30Hz ... 40 kHz
Crosstalk, 1 kHz Fader and AUX-Send attenuation Channel to channel	> 80 dB > 70 dB
CMRR, MIC input, 1 kHz	> 80 dB
Input Sensitivity, all level controls in max. position MIC Input Line Input (Mono) Line Input (Stereo) Power Amplifier Input	-74 dBu (155 μV) -54 dBu (1.55 mV) -24 dBu (49 mV) +6 dBu (1.55 V)
Maximum Level, mixing desk MIC inputs Mono Line inputs Stereo Line inputs All other inputs Record Send output All other outputs	+ 11 dBu + 30 dBu + 20 dBu + 20 dBu + 14 dBu + 20 dBu
Input Impedances MIC Insert Return EQ Input and 2 Track Return All other inputs	1.8 kΩ - 10 kΩ > 15 kΩ
Output Impedances Record Send Phones All other outputs	1 kΩ 47 Ω 75 Ω
Equivalent Input Noise, MIC Input, A-weighted, 150 Ω	- 130 dBu
Noise, Channel inputs to Main L/R outputs, A-weighted Master fader down Master fader 0 dB, Channel fader down Master fader 0 dB, Channel fader 0 dB, Channel gain unity	- 104 dBu - 91 dBu - 84 dBu
Signal/Noise-Ratio, power amplifier, A-weighted	105 dB
Equalization LO Shelving MID Peaking, mono inputs MID Peaking, stereo inputs HI Shelving Master EQ, 2x7-band	± 15 dB / 60 Hz ± 12 dB / 2.4 kHz ± 15 dB / 12 kHz ± 10 dB
Phantom Power	24V DC
Mains Voltage	100V / 120V / 230V / 240V AC / 50-60Hz
Power Consumption at 1/8 maximum output power, 4 Ω	450 W
Dimensions, (mm) (width x height x depth)	455,5 x 175,8 x 340,6
Weight (including lid)	13 kg

AMERICAS

HEADQUARTERS AMERICAS

Bosch Security Systems, Inc.

12000 Portland Ave South,

Burnsville, MN 55337, USA

USA-Tel: 1 800 392 3497

Fax: 1 800 955 6831

Canada-Tel: 1 866 505 5551

Fax: 1 866 336 8467

Latin America-Tel: 1 952 887 5532

Fax: 1 952 736 4212

EMEA

HEADQUARTERS EUROPE, MIDDLE-EAST & AFRICA

Bosch Sicherheitssysteme GmbH

Werner-von-Siemens-Ring 10

85630 Grasbrunn, Germany

Contact & Visitor Address

EVI Audio GmbH

Sachsenring 60

94315 Straubing, Germany

Tel: +49 9421 706 0

Fax: +49 9421 706 265

MIDDLE EAST

Robert Bosch Middle East FZE

Tel: +97 14 212 3300

Fax: +97 14 212 3388

ASIA & PACIFIC

HEADQUARTERS APR

Robert Bosch (SEA) Pte Ltd.

11 Bishan St. 21

Singapore 573943

Tel: +65 6571 2534

Fax: +65 6571 2699

AUSTRALIA

Bosch Security Systems Pty Ltd.

Tel: +61 2 9683 4752

Fax: +61 2 9890 5928

CHINA

Bosch (Shanghai) Security

Systems Ltd. (Shanghai) Co., Ltd.

Tel: +86 21 6317 2155

Fax: +86 21 6317 3025

INDIA

Bosch Limited

Tel: +91 80 4176 8378

Fax: +91 80 4176 8263

JAPAN

EVI Audio Japan Ltd.

Tel: +81 3 5485 4427

Fax: +81 3 5485 4428

THAILAND

Robert Bosch Limited

Tel: +662 639 3111

Fax: +662 631 2030

KOREA

Robert Bosch Korea Ltd.

Tel: +82 31 270 4765

Fax: +82 31 270 4601

TAIWAN

Robert Bosch Taiwan Co., Ltd.

Tel: +886 2 2515 5388 Ext. 2688

Fax: +886 2 2515 5399

VIETNAM

Robert Bosch Vietnam Co., Ltd.

Tel: +84 8 62583690

Fax: +84 8 62583693

INDONESIA

PT Robert Bosch

(Security Systems)

Tel: +62 21 5210600

Fax: +62 21 5214848