



Technische Informationen  
Engineering Data Sheet  
**PowerMate 600-3**

POWERED MIXER

## Beschreibung

Der PowerMate 600-3 ist ein leistungsfähiger Power Mixer, der eine große Anzahl von Funktionen in einer sehr kompakten Form, und dennoch kompromisslosen Audio-Qualität bietet. Der PowerMate kann äußerst zeitsparend und einfach aufgebaut werden, da komplizierte Rack-Konfiguration und störanfällige Verkabelung von Mischpult, Verstärker, Effektteilen und Equalizern entfallen. Durch die ergonomische Pultform und die übersichtliche, strukturierte Anordnung der Bedienteile hat man stets alles im Blick und kann schnell und problemlos auf jedes Bedienelement zugreifen. Der robuste Deckel sowie das geringe Gewicht erlauben einen problemlosen Transport des Geräts, wobei alle empfindlichen Teile wie Knöpfe und Regler sicher abgedeckt sind. Für den Einbau des Geräts in ein Rack oder einen Einbautisch können die Kunststoffseitenteile durch Metall-Rackwinkel ersetzt werden. Mit seiner großen Anzahl von Funktionen, der hohen Dynamik, seinem rauscharmen Design, dem 24bit-Dual-Stereo-Effektteil, dem 4-Kanal DIGITAL AUDIO INTERFACE (USB 2.0) und nicht zuletzt der hocheffizienten Leistungsendstufe in Class D-Technik ist der PowerMate universell einsetzbar.

## Description

The PowerMate compact power mixers incorporate profound know-how, based on our research, development and inter-communication with our customers in the professional audio market, for decades. The PowerMate 600-3 is a power mixer that offers a wide range of functionality in a very compact frame. The PowerMate is quickly set up. Complicated rack configuration and interference-prone wiring of several single components cease to apply. The mixer's ergonomic console shape and clearly structured controls provide perfect overview for instant access at all times. Also during the transport you will quickly learn to appreciate the PowerMate's superiority: compact dimensions and low weight, plus the sturdy cover that protects the controls from being damaged. However, if you would rather like to install your PowerMate in a 19" rack shelf, no problem. The only thing you have to do is to replace the plastic side panels by a pair of metal rack mount ears. Through its multiple functions, its high dynamic capacity, and extremely low-noise design in combination with its 24-bit Dual-Stereo effect unit, 4 channel DIGITAL AUDIO INTERFACE (USB 2.0) and the high-performance power amplifier, the PowerMate is best equipped for universal use.

## Part Number

<b>PowerMate 600-3</b>	Powered Mixer (4 x Mic/Line + 2 x Super-Channel + 2 x Stereo-Line)	DC-PM600-3-UNIV
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## Inhalt

- 1 x PowerMate 600-3
- 1 x Bedienungsanleitung
- 1 x Schnellstart-Anleitung
- 1 x Netzkabel (2 Meter)
- 1 x Garantiekarte mit Sicherheitshinweisen
- 1 x Installationshinweise für Steinberg Cubase LE
- 1 x Software Lizenz für Steinberg Cubase LE

## Contents

- 1 x PowerMate 600-3
- 1 x Owner's manual
- 1 x Quickstart manual
- 1 x Mains cord (2 meters)
- 1 x Warranty certificate including safety instructions
- 1 x Instruction card for Steinberg Cubase LE
- 1 x Software license sheet for Steinberg Cubase LE



Property	PowerMate 600-3
<b>Order No.</b>	F01U213899 DC-PM600-3-UNIV
<b>Channels</b> (Mono + Stereo)	4 + 4
<b>Microphone Inputs</b> (XLR)	6
<b>Auxiliaries</b> (MON, FX, AUX)	1 Pre, 1 Post, 1 Pre/Post switchable
<b>Max. Single Channel Output Power</b> , Dynamic-Headroom, IHF-A	
into 2.66 Ohms	2 x 1600 W
into 4 Ohms	2 x 1250 W
into 8 Ohms	2 x 675 W
<b>Max. Single Channel Output Power</b> , Continuous, 1 kHz, THD = 1%	
into 2.66 Ohms	2 x 1350 W
into 4 Ohms	2 x 1150 W
into 8 Ohms	2 x 650 W
<b>Maximum Midband Output Power</b> , 1 kHz, THD = 1%, Dual Channel	
into 2.66 Ohms	2 x 1350 W
into 4 Ohms	2 x 1000 W
into 8 Ohms	2 x 600 W
<b>Rated Output Power</b> , 20 Hz to 20 kHz, THD < 0.5%, Single Channel	
into 4 Ohms	2 x 900 W
into 8 Ohms	2 x 450 W
<b>Maximum Output Voltage</b> , of power amplifier, 1 kHz, no load	
	74 V <sub>rms</sub>
<b>THD</b> , at 1 kHz, MBW = 80 kHz	
MIC input to Master A L/R outputs, +16 dBu, typical	< 0.005%
POWER AMP INPUTS to Speaker L/R outputs	< 0.075%
<b>DIM 30</b> , power amplifier, 3.15 kHz, 15 kHz	< 0.05%
<b>IMD-SMPTE</b> , power amplifier, 60 Hz, 7 kHz	< 0.15%
<b>Frequency Response</b> , -3 dB, ref. 1 kHz	
Any input to any Mixer output	15 Hz to 70 kHz
Any input to Speaker L/R output	20 Hz to 30 kHz
<b>Crosstalk</b> , 1 kHz	
Amplifier L/R	< -85 dB
Channel to Channel	< -80 dB
Mute- and Standby-Switch attenuation	> 100 dB
Fader and FX/AUX/MON-Send attenuation	> 85 dB
<b>CMRR</b> , MIC input, 1 kHz	
	> 80 dB
<b>Input Sensitivity</b> , all level controls in max. position	
MIC	-74 dBu (155 µV)
LINE (Mono)	-54 dBu (1.55 mV)
LINE (Stereo)	-34 dBu (15.5 mV)
CD (Stereo)	-34 dBu (15.5 mV)
POWER AMP INPUTS	+8 dBu (1.95 V)
<b>Maximum Level</b> , mixing desk	
MIC inputs	+11 dBu
Mono Line inputs	+31 dBu
Stereo Line inputs	+31 dBu
All other inputs	+22 dBu
All other outputs	+22 dBu
<b>Input Impedances</b>	
MIC	2 kOhms
CD In	10 kOhms
All other inputs	> 15 kOhms
<b>Output Impedances</b>	
Phones	47 Ohms
All other outputs (balanced/unbalanced)	150 Ohms / 75 Ohms
<b>Equivalent Input Noise</b> , MIC input, A-weighted, 150 ohms	
	-130 dBu
<b>Noise</b> , Channel inputs to Master A L/R outputs, A-weighted	
Master fader down	-100 dBu
Master fader 0 dB, Channel fader down	-92 dBu
Master fader 0 dB, Channel fader 0 dB, Channel gain unity	-82 dBu



Property	PowerMate 600-3
<b>Signal/Noise-Ratio</b> , power amplifier, A-weighted, 4 Ohms	105 dB
<b>Output Stage Topology</b> , amplifier	Class D
<b>Equalization</b>	
LO Shelving	±15 dB / 60 Hz
MID Peaking	±12 dB / 2.4 kHz
HI Shelving	±15 dB / 12 kHz
Master EQ 9-band (63, 125, 250, 500, 1k, 2k, 4k, 6.3k, 12k Hz)	±10 dB / Q = 1.5 to 2.5
<b>Filter</b>	
LO-CUT, mono inputs	f = 80 Hz, 18 dB/oct., switchable
Speaker Processing	LPN, switchable
<b>Effects</b>	
Type	2 x Stereo 24/48-bit multi effects processors
Effects presets	100 Factory + 20 User, Tap-Delay
Remote control	Footswitch, MIDI
<b>Display</b>	128 x 64 pixels, OLED
<b>Digital Audio Interface</b>	
Channels	4 In / 4 Out
AD/DA Conversion	24-bit
Sampling Rate	44.1 / 48 / 88.2 / 96 kHz
PC Interface	USB2.0, Female Type B
Peak Display	6 dB before Clip
<b>MIDI Interface</b>	5-pin DIN connector, In / Out
<b>Output Power Control</b> (Speaker Protection)	Adjustable longterm RMS Limiter
<b>Protection</b>	
Mixer Outputs, relay controlled	AUX, MON, MASTER A L/R
Amplifier	Audio Limiters, High Temperature, DC, HF, Short Circuit, Peak Current Limiters, Turn-on Delay, Back EMF
Switching Mode Power Supply ( $\mu$ C controlled)	Inrush Current Limiters, Mains Over/Undervoltage, Mains Over Current, High Temperature
<b>Cooling</b>	Continuous speed controlled Fans
<b>Phantom Power</b> , switchable	48 V DC
<b>Power Requirements</b> (SMPS with auto range mains input)	100 V to 240 V AC, 50 Hz to 60 Hz
<b>Power Consumption</b> , at 1/8 maximum output power, 4 Ohms	450 W
<b>Safety Class</b>	I
<b>Ambient Temperature Limits</b>	+5 °C to +40 °C (40 °F to 105 °F)
<b>Dimensions</b> (W x H x D), mm	With lid: 438.8 x 161.7 x 362.5 Rack-mount: 483 x 135.8 x 310.3 (7 HU)
<b>Weight</b>	
Net Weight, without lid	9.0 kg
Net Weight, with lid	9.5 kg
Shipping Weight	12 kg
<b>Warranty</b>	36 months
<b>Optional Accessories</b>	
Rack Mount Kit	F01U214880 (DC-RMK-600-3)
FS 11 (Footswitch with LED)	F01U100598 (DC-FS11)
Carrying bag	F01U259014 (DC-BAG-600PM)

Device in rated condition, unity gain (MIC gain 20 dB), all faders position 0 dB, all pots in mid position, master fader +8 dB, LPN HIGH, amplifier load 8 ohms, dual channel, mains voltage 230 V/50 Hz or 120 V/60 Hz, unless otherwise specified.



