

PM 502



- Powered Mixer with 5 Mic/Line and 3 Stereo channels
- 2 x 450 W RMS at 4 Ω
- 32 editable HQ effect presets
- Onboard MP3 audio player
- 100V Direct Drive option

This innovative product comes in a very modern and user-friendly design. It combines finest analogue input circuitry and operating surface with the advantages of its digital master and amplifier section making for a new dimension of flexibility in its class. The acoustical performance meets all the expectations that you have come to expect on a quality product from Dynacord. Its feature package includes: 5 MIC/LINE input channels with compressor/limiter and talk-over function, 3 Stereo Inputs including Jack, RCA and USB connectors, onboard player for MP3 or WAV audio files, high quality effects section with 32 editable presets, 3 Master outputs with 7-band EQ each and flexible signal routing options, delay line for Master-B (150 msec/50 m), headphones control, LPN speaker processing, class-D 2 x 450 W RMS / 2 x 600 W / 4 Ω program power, micro-controlled power supply (100–240 V), Direct Drive option for 100 V speaker lines, comprehensive protection package, live and install connectivity, optional rack mount kit.

The PM 502 is an extremely versatile tool for a multitude of live and installation applications. It will be the ideal choice for entertainers, DJs and small bands looking for a compact and light-weight solution for live applications or rehearsal venues. The digital USB interface also allows for basic recording and the onboard MP3-Player on the front, makes background music during breaks, a smooth and easy transition.

The input structure of the PM 502, along with the entire feature package and connectivity, positions this mixer at the heart of many installations ranging from bistros, small clubs, lounges, boutiques, hotel bars and lobbies to churches, mosques and a wide range of similar applications.

Parts included

Quantity	Component
1	PM 502
1	Power cord
1	User manual
1	Important safety instructions

Technical specifications

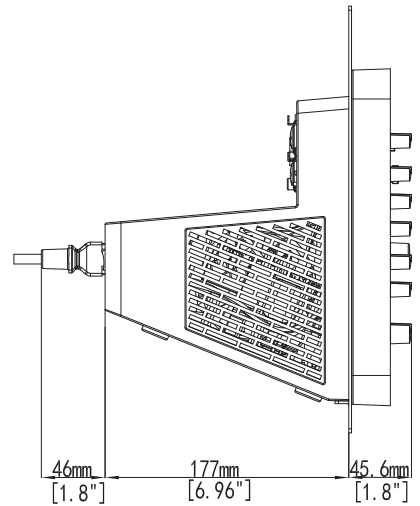
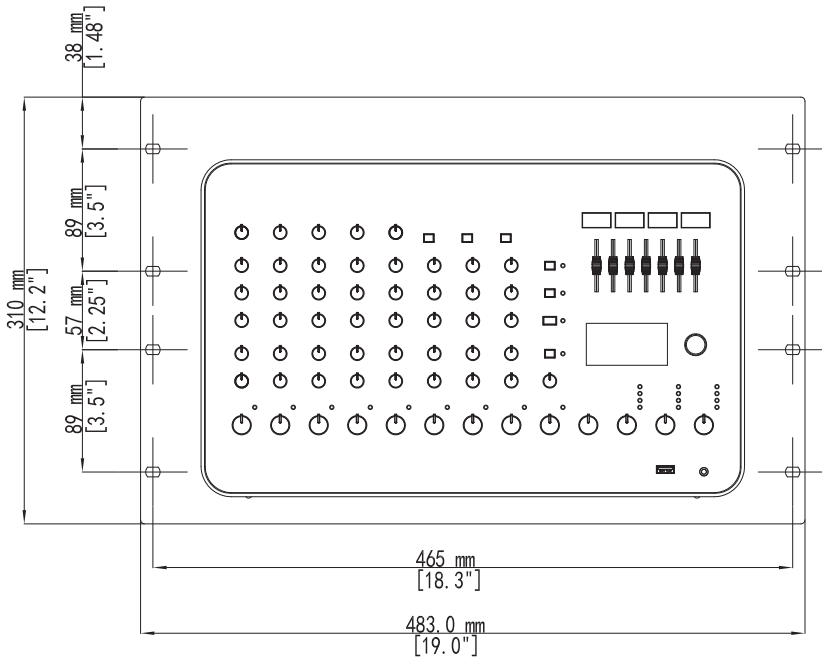
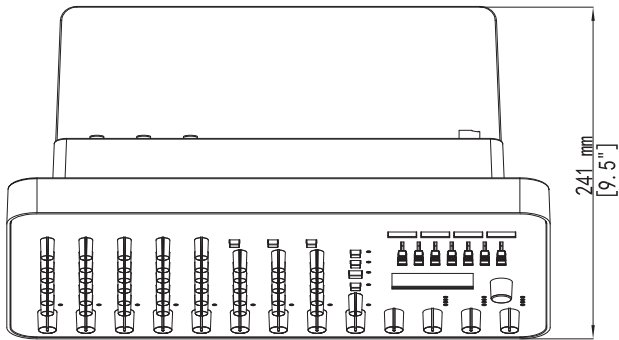
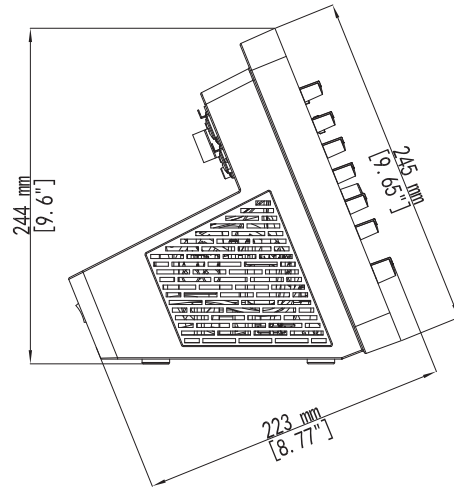
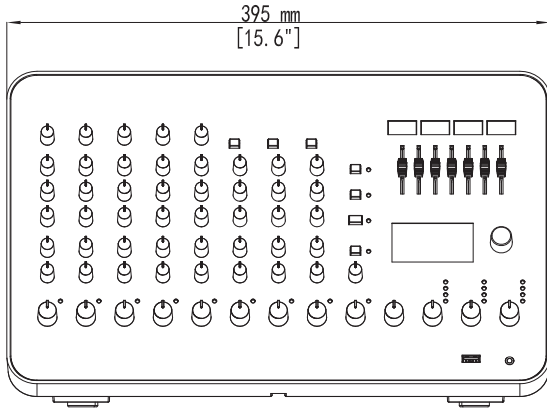
Channels (mono + stereo)	5 + 3
Microphone inputs	5 x XLR/Jack socket
Auxiliaries (FX, AUX)	1 Post, 1 Pre
Max. single channel output power, dynamic headroom, IHF-A	
• into 4 Ω	640 W
• into 8 Ω	350 W
Max. dual channel output power, dynamic headroom, IHF-A	
• into 4 Ω	2 x 600 W
• into 8 Ω	2 x 340 W
Max. single channel output power, continuous, 1 kHz, THD = 1%	
• into 4 Ω	500 W
• into 8 Ω	280 W
Max. midband output power, 1 kHz, THD = 1%, dual channel	
• into 4 Ω	2 x 450 W
• into 8 Ω	2 x 270 W
Rated output power, 20-20000 Hz, THD < 0.5%, one channel loaded	
• into 4 Ω	400 W
• into 8 Ω	240 W
Max. output power, Direct Drive mode (bridge configuration), continuous, 1 kHz, THD = 1%	
• into 12 Ω	680 W
Max. output voltage, power amplifier, 1 kHz, no load	
• Dual channel mode	52 V_{rms}
• Direct Drive mode	100 V_{rms}
THD, at 1 kHz, MBW = 22 kHz	
• MIC input to master A L/R outputs, +10 dBu, typical	< 0.015%
• MIC input to speaker output	< 0.15%
DIM 30, MIC input to speaker output, 3.15 kHz, 15 kHz	< 0.05%
IMD-SMPTE, MIC input to speaker outputs, 60 Hz, 7 kHz	< 0.15%
Frequency response, -3 dB, ref. 1 kHz	
• Any input to any Mixer output	15–22000 Hz
• Any input to Speaker output	20–22000 Hz
Crosstalk, 1 kHz	
• Amplifier Ch1/Ch2	< -85 dB

• Channel to channel	< -78 dB
Microphone mute switch attenuation	> 100 dB
Channel VOL and FX/AUX send attenuation	> 85 dB
CMRR, MIC input, 1 kHz	> 80 dB
Input sensitivity, all level controls in max. position	
• MIC	-65 dBu (435 μ V)
• LINE (mono)	-45 dBu (4.35 mV)
• LINE (stereo)	HI: -27 dBu (34.6 mV), LO: -11 dBu (218 mV)
• CD (stereo)	-27 dBu (34.6 mV)
Max. level, mixing desk, input VOL down, output VOL up	
• MIC inputs, GAIN at min. position	+11 dBu
• Mono line inputs, GAIN at min. position	+30 dBu
• Stereo line inputs	+26 dBu
• PHONES output	+21 dBu
• MASTER A, B, AUX outputs	+11 dBu
Input impedances	
• MIC	2 k Ω
• CD	10 k Ω
• All other inputs	> 15 k Ω
Output impedances	
• PHONES	47 Ω
• All other outputs (impedance balanced)	150 Ω
Equivalent input noise, MIC preamp, A-weighted, max. gain, 150 Ω	-129 dBu
Noise, channel inputs to MASTER A L/R outputs, MBW = 22 kHz, A-weighted	
• MASTER VOLUME down	-99 dBu
• MASTER VOLUME center, all channel volume down	-90 dBu
• MASTER VOLUME center, all channel volume center	-85 dBu
Signal-to-noise ratio, power amplifier, A-weighted, 450 W, 4 Ω	104 dB
Output stage topology, amplifier	Class D
Equalization	

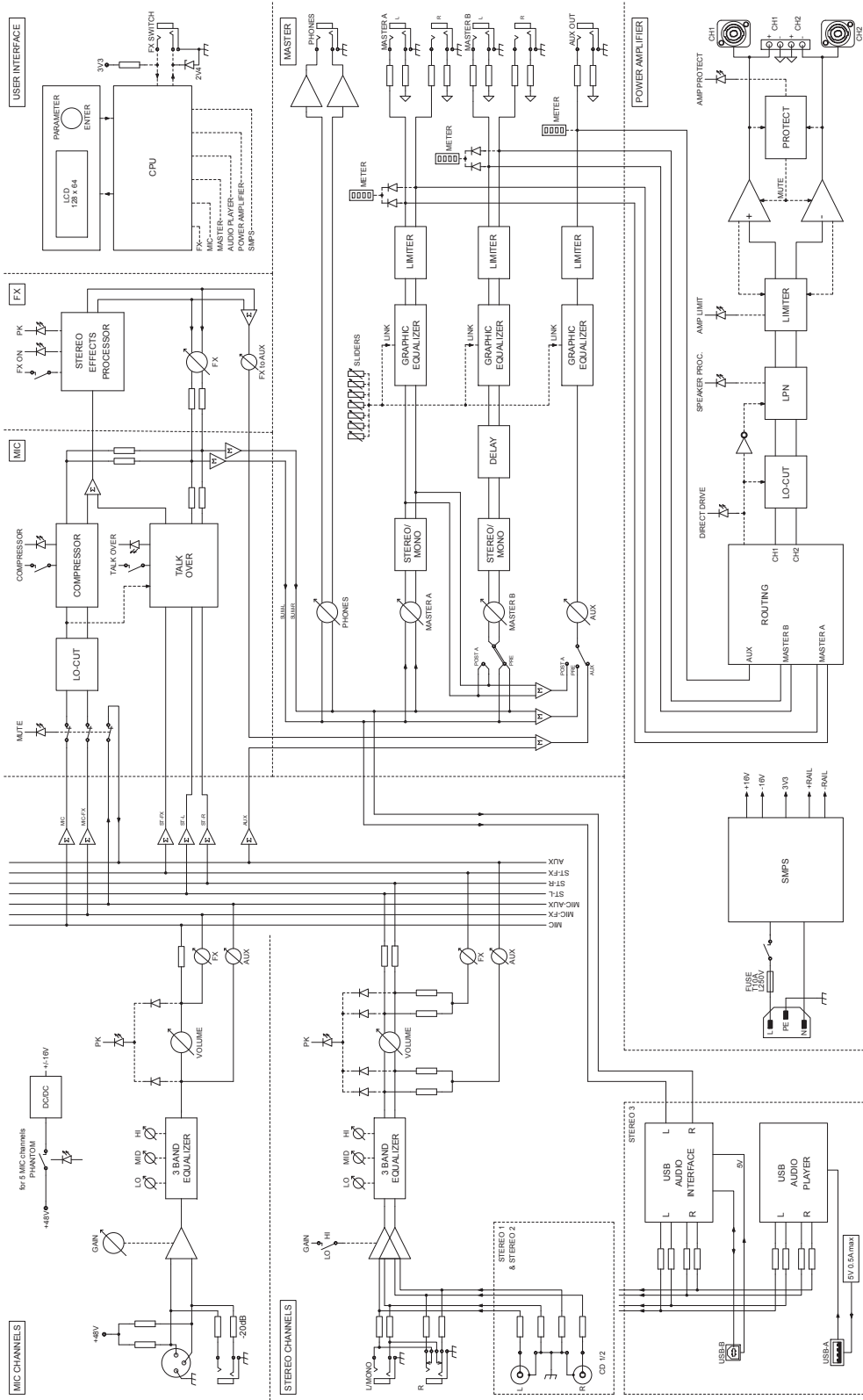
• Low shelving filter	±15 dB / 60 Hz
• Mid peak filter	±12 dB / 2.4 kHz
• High shelving filter	±15 dB / 12 kHz
Master EQ 7-band (63, 160, 400, 1k, 2.5k, 6k, 12k Hz)	±10 dB / Q = 1.5
Filter	
• Low-cut filter, microphone processing (switchable)	80 Hz, 18 dB/oct. or 150 Hz, 12 dB/oct.
• Low-cut filter, amplifier (engaged in Direct Drive mode)	50 Hz or 70 Hz, 18 dB/oct.
• Speaker processing	LPN, switchable
Delay MASTER B, selectable	0–145 ms (0–50 m)
Effects	
• Type	Stereo 24/48-bit multi effects processor
• Effect presets	32 factory presets, user editable
• Remote control	Footswitch
Display	128 x 64 pixels, LCD
Audio player (USB at front panel)	
• Switching mode power supply (µC controlled)	FAT 32
• Supported audio file formats	MP3, WAV
• Interface	USB2.0, female type A
• USB power supply, max. rated current (short circuit proof)	5 V, 500 mA
Digital audio interface (USB at rear panel)	
• Channels	2 in, 2 out
• AD/DA conversion	16-bit, delta-sigma
• Sampling rate	32/44.1/48 kHz
• PC interface	USB2.0, female type B
Protection	
• MASTER A, B, AUX outputs	Adjustable peak limiters, -10 – +11 dBu
• Amplifier	Audio limiters, high temperature, DC, HF, short circuit, peak current limiters, turn-on delay, back EMF
• Switching mode power supply (µC controlled)	Inrush current limiters, mains over/undervoltage, mains over current, high temperature
Cooling	Continuous speed controlled fan
Phantom power, switchable	48 V DC

AC power input	100–240 V AC, 50–60 Hz
Power consumption, at 1/8 maximum output power, 4 Ω	180 W
Safety class	I
Operating temperature	5° to 40° C (40° to 105° F)
Product dimensions (Width x Height x Depth)	395 x 244 x 241 mm Rack-mount: 483 x 223 x 310.3 mm (7 HU)
Net weight	4.9 kg
Shipping weight	6.4 kg

* Device in rated condition: MIC GAIN 15 dB, STEREO GAIN LO, all channel and master controls in center position, 100 V Direct Drive mode: Off, LPN HIGH, amplifier load 8 ohms, dual channel, mains voltage 230 V/50 Hz or 120 V/60 Hz, unless otherwise specified.

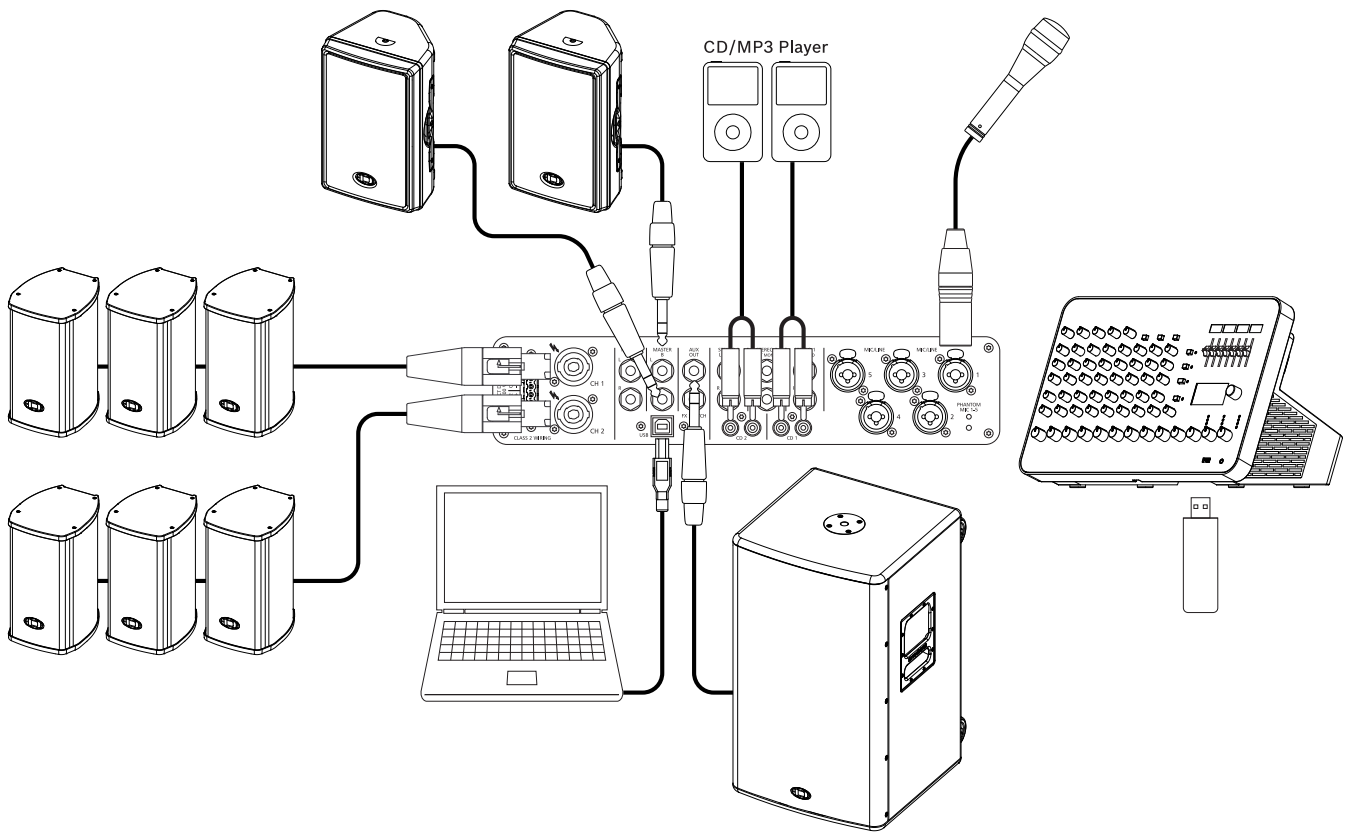


Dimensions



Circuit diagram

Installation/configuration notes



Setup example

Ordering information

PM 502 (100-240V)

Powered Mixer with 5 Mic/Line and 3 Stereo-Channels, 2 x 450W RMS/4 Ohms, 32 editable HQ-effects presets, onboard audio player, USB interface, 3 masters, 3 x 7band EQ, 100V direct drive option, live and install connectivity.

Order number **F.01U.297.641**

PM 502 (CN)

Powered Mixer with 5 Mic/Line and 3 Stereo-Channels, 2 x 450W RMS/4 Ohms, 32 editable HQ-effects presets, onboard audio player, USB interface, 3 masters, 3 x 7band EQ, 100V direct drive option, live and install connectivity.

Order number **F.01U.297.642**

PM 502 (240 V)

Powered Mixer with 5 Mic/Line and 3 Stereo-Channels, 2 x 450W RMS/4 Ohms, 32 editable HQ-effects presets, onboard audio player, USB interface, 3 masters, 3 x 7band EQ, 100V direct drive option, live and install connectivity.

Order number **F.01U.297.643**

RMK 502

Rackmount kit for PM 502

Order number **F.01U.290.510**
