PM 502





- Powered Mixer with 5 Mic/Line and 3 Stereo channels
- $2 \times 450 \text{ W RMS at } 4 \Omega$
- 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

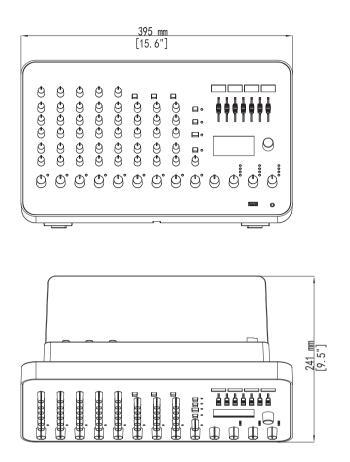
| Channels (mono + stereo) | 5 + 3 |
|---|-----------------------------------|
| Microphone inputs | 5 x XLR/Jack socket |
| Auxiliaries (FX, AUX) | 1 Post, 1 Pre |
| Max. single channel output power, | • |
| • into 4 Ω | 640 W |
| • into 8 Ω | 350 W |
| Max. dual channel output power, d | ynamic headroom, 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 | z, THD = 1%, dual channel |
| into 4 Ω | 2 x 450 W |
| into 8 Ω | 2 x 270 W |
| Rated output power, 20-20000 Hz | r, THD < 0.5%, one channel loaded |
| into 4 Ω | 400 W |
| into 8 Ω | 240 W |
| Max. output power, Direct Drive mo continuous, 1 kHz, THD = 1% | ode (bridge configuration), |
| into 12 Ω | 680 W |
| Max. output voltage, power amplifi | er, 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 k | кНz |
| 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 |

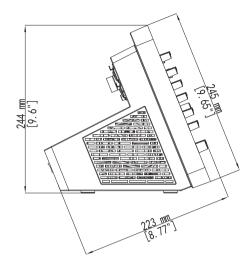
| Channel to channel | < -78 dB |
|--|--|
| Microphone mute switch attenuation | > 100 dB |
| Channel VOL and FX/AUX send attenuation | > 85 dB |
| CMRR, MIC input, 1 kHz | > 80 dB |
| Input sensitivity, all level controls in | max. position |
| • MIC | -65 dBu (435 μV) |
| • LINE (mono) | -45 dBu (4.35 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 d | own, 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 kΩ |
| • CD | 10 kΩ |
| All other inputs | > 15 kΩ |
| Output impedances | |
| • PHONES | 47 Ω |
| All other outputs (impedance balanced) | 150 Ω |
| Equivalent input noise, MIC preamp, A-weighted, max. gain, $150\;\Omega$ | -129 dBu |
| Noise, channel inputs to MASTER A weighted | L/R outputs, MBW = 22 kHz, A- |
| 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 | |
| | |

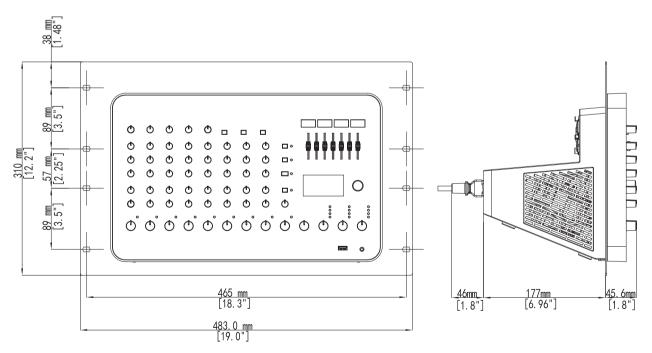
| • | Low shelving filter | ±15 dB / 60 Hz |
|---------|--|--|
| • | Mid peak filter | ±12 dB / 2.4 kHz |
| • | High shelving filter | ±15 dB / 12 kHz |
| | r EQ 7-band (63, 160, lk, 2.5k, 6k, 12k Hz) | ±10 dB / Q = 1.5 |
| Filter | | |
| • | Low-cut filter, microphone processing (switchable) | 80 Hz, 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) |
| Effect | S | |
| • | Туре | Stereo 24/48-bit multi effects processor |
| • | Effect presets | 32 factory presets, user editable |
| • | Remote control | Footswitch |
| Displa | у | 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 p | 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 |
| Protec | ction | |
| • | 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 |
| Coolin | g | Continuous speed controlled fan |
| Phanto | om 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 | l |
| 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 |
| | |

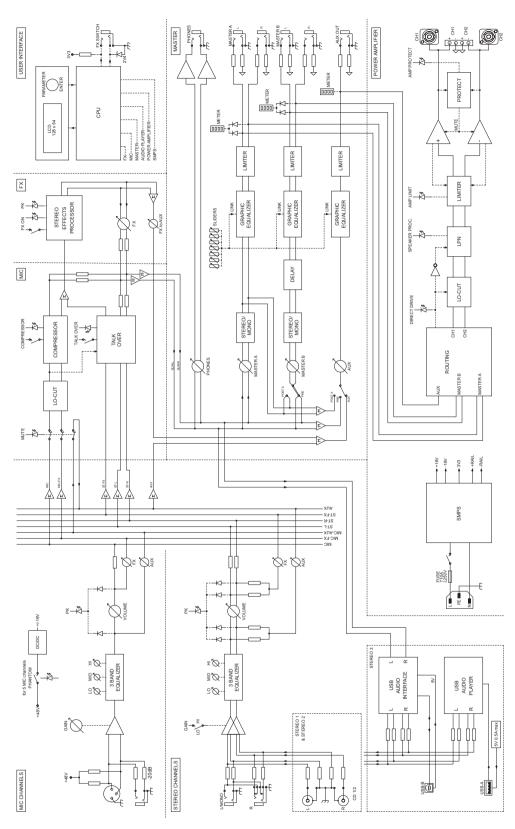
^{*} Device in rated condition: MIC GAIN 15 dB, STEREO GAIN LO, all channel and master controls in center position, 100 V Direct Drive mode: Off, LPN HIGH, amplifier load 8 ohms, dual channel, mains voltage 230 V/50 Hz or 120 V/60 Hz, unless otherwise specified.





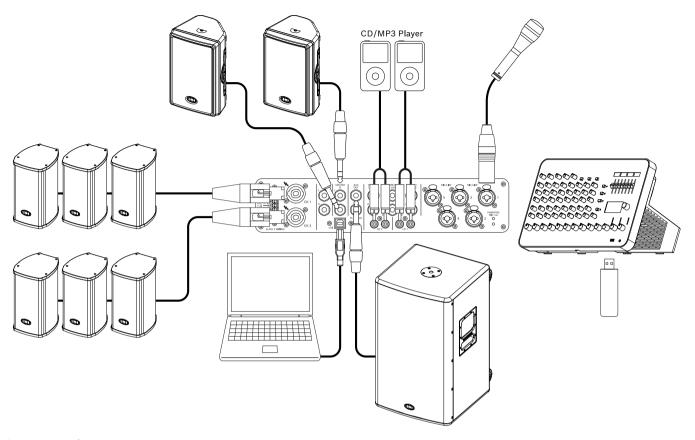


Dimensions



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**

Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany

www.dynacord.com

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XRS LOUDSPEAKERS



The XRS series of high performance loudspeakers takes the legendary performance of the XR series and adds a more stylish, contemporary look that is at home in any entertainment environment.

Building on the enormous market acceptance of the very popular XR speaker series, the XRS series two-way injection moulded speaker enclosures have even more features and new aesthetics to suit both live sound reinforcement and permanent installation. From front-of-house to fold back, the dance floor to background fill, the XRS series with passive and powered options are designed with flexibility and performance in mind.

Including 8", 10" and 12" models, each have high quality compression drivers and represent a significant advancement in injection moulded box design while maintaining excellent audio quality and great value for money.



XRS8

- Two-way passive speaker with one 8" woofer and one 1.5" driver.
- Highly durable poly propylene injection molded cabinet.
- Voice coil in the 8" woofer is made from 50mm copper cladding aluminium ribbon wire.
- Heavy duty protective grille.
- High frequency driver protection.
- 90°x 90° (HxV) dispersion horn.
- Supplied with foldback kit and U bracket.
- U bracket or eye bolt mounting options





■ Mic level XLR input with volume, bass and treble control.

■ Line level XLR input with volume, bass and treble control.

- Two-way passive speaker with one 10" woofer and one 1.5" driver.
- Highly durable poly propylene injection molded cabinet.
- Voice coil in the 10" woofer is made from 75mm copper cladding aluminium ribbon wire.
- Heavy duty protective grille.
- High frequency driver protection.
- 90° x 90° (HxV) dispersion horn.
- Supplied with foldback kit.
- Thru-put speakon connector.



XRS10P ■ Self powered version of XRS10.

XRS8P

■ Self powered version of XRS8. ■ 100W and 50W power amp module.

■ Mix XLR line level output.

■ Supplied with foldback kit.

■ U bracket or eye bolt mounting options

- 100W and 50W power amp module.
- Mic level XLR input with volume, bass and treble control.
- Line level XLR input with volume, bass and treble control.
- Mix XLR line level output.
- Supplied with foldback kit.





XRS10P shown



XRS12

- Two-way passive speaker with one 12" woofer and one 2" driver.
- Highly durable poly propylene injection molded cabinet.
- Voice coil in the 12" woofer is made from 75mm copper cladding aluminium ribbon wire.
- Heavy duty protective grille.
- High frequency driver protection.
- 90°x 90° (HxV) dispersion horn.
- Pole mount or eye bolt installation points.
- Supplied with foldback kit.
- Thru-put speakon connector

XRS12P

- Self powered version of XRS12
- 300W and 100W power amp module.
- Mic level XLR input with volume, bass and treble control.
- Line level XLR input with volume, bass and treble control.
- Mix XLR line level output.
- Supplied with foldback kit.









ACCESSORIES

XR8PMA Pole Mount Adapter

XR8UMB Universal Mounting Bracket

XR10CVR Heavy Duty Cover

XR12CVR Heavy Duty Cover

XR10-12UB Universal bracket AMISLSB1 Wall Mount Brackets

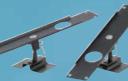
ATC303 Tripod Speaker Stand

ATC304 Heavy Duty Tripod Speaker Stand

ATC305 Winch Up Speaker Stand







XR8UMB



XRS8 U Bracket

XR8PMA



SPECIFICATIONS

| | XRS8 | XRS10 | XRS12 |
|--------------------------------|-----------------------------|--------------------|-------------------|
| Drivers | 1 x 8" woofer | 1 x 10" woofer | 1 x 12" woofer |
| | 1 x 1.5" HF driver | 1 x 1.5" HF driver | 1 x 2" HF driver |
| Frequency Response (-3dB) | 65Hz-18kHz | 55Hz-18kHz | 50Hz-18kHz |
| Frequency Response (-10dB) | 60Hz-20kHz | 50Hz-20kHz | 40Hz-20kHz |
| Sensitivity (dB 1W 1m) | 92 dB | 95 dB | 97 dB |
| Impedance | 8 Ohm | 8 Ohm | 8 Ohm |
| Recommended Max Power (Wrms) | 100 W | 250 W | 300 W |
| Max Sound Level (dB 1m) | 118dB | 125dB | 128dB |
| Dispersion (HxV) | 90° x 90° | 90° x 90° | 90° x 90° |
| Harmonic Distortion | 1% | 1% | 1% |
| Speakon compatible connectors | 1 | 2 | 2 |
| Dimensions (W x D x H) | 277 x 257 x 400mm | 321 x 208 x 464mm | 415 x 382 x 620mm |
| Packing Dimensions (W x D x H) | 330 x 350 x 470 mm per item | 375 x 355 x 535mm | 465 x 435 x 680mm |
| Net Weight | 6.5kg | 10kg | 18kg |
| Shipping Weight | 8.5kg | 12kg | 20kg |

| | XRS8P | XRS10P | XRS12P |
|--------------------------------|-----------------------|-----------------------|------------------------|
| Drivers | 1 x 8" woofer | 1 x 10" woofer | 1 x 12" woofer |
| | 1 x 1.5" HF driver | 1 x 1.5" HF driver | 1 x 2" HF driver |
| Frequency Response (-3dB) | 65Hz-18kHz | 55Hz-18kHz | 50Hz-18kHz |
| Frequency Response (-10dB) | 55Hz-18kHz | 50Hz-18kHz | 40Hz-20kHz |
| Peak Sound Level (dB 1m) | 118dB | 121dB | 125dB |
| TONE CONTROLS | | | |
| Bass control @ 100Hz | 12dB | 12dB | 12dB |
| Treble control @ 10kHz | 10dB | 10dB | 10dB |
| Output Power RMS | 100W(low) + 50W(high) | 100W(low) + 50W(high) | 300W(low) + 100W(high) |
| DISTORTION (THD) | | | |
| Line | 0.02% | 0.02% | 0.02% |
| Microphone | 0.04% | 0.04% | 0.04% |
| Tweeter Dispersion (HxV) | 90° x 90° | 90° x 90° | 90° x 90° |
| INPUT IMPEDANCE | | | |
| Line | 20k0hm | 20k0hm | 20k0hm |
| Microphone | 10k0hm | 10k0hm | 10k0hm |
| Connectors | XLR 3 | XLR 3 | XLR 3 |
| Power Supply | AC 115V/230V, 50/60Hz | AC 115V/230V, 50/60Hz | AC 115/230V, 50/60Hz |
| Dimensions (W x D x H) | 277 x 265 x 407mm | 325 x 308 x 478mm | 415 x 391 x 600mm |
| Packing Dimensions (W x D x H) | 355 x 325 x 470mm | 375 x 355 x 535mm | 465 x 435 x 680mm |
| Net Weight | 8.6kg | 10.5kg | 23kg |
| Shipping Weight | 10.6kg | 12.5kg | 25.2kg |



ENGINEERED BY AUSTRALIAN MONITOR

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