PM3000-X Powered mixer, 3kW, 4 ch, 8 inputs

PowerMate-X



- Intuitive mixing Web UI inspired by the classic PowerMate, with extended DSP features
- 4-channel DSP amplifier with 3 kW total power including FIR-Drive speaker processing
- 8 mic/line and 2 USB inputs with Dynacord microphone preamps, Vocal Voicing filter, and advanced channel DSP
- 2 Dynacord FX engines, 100 factory presets and 20 user presets each
- Virtual control panel and customizable user interfaces with restricted access rights

PM3000-X leads the next generation of PowerMate, Dynacord's iconic powered mixer, renowned for its audio quality and reliability.
The compact 3 RU, 19-inch housing combines advanced amplifier and DSP technology from Dynacord's DSP amplifiers with an intuitive web-based mixer UI that delivers the look and feel of a classic PowerMate.
PM3000-X is the perfect system solution for houses of worship, small music clubs and live event venues featuring small bands and DJs.
In addition to the classic Dynacord microphone pre-amps, equalization and Vocal Voicing filter the "X-tra" section includes a 4-band semi-parametric EQ, noise gate, compressor, auto mixer, and ducker for intense sound tuning if required.
The four amplifier channels can drive both high-impedance (Hi-Z) and low-impedance (Lo-Z) loads, delivering up to 1000 W per channel with a total system output power of 3000 W.
FIR-Drive loudspeaker presets can be loaded to all amplifier channels and line outputs, including support for the complete SONICUE loudspeaker library and Dynacord's renowned LPN processing.
A class-compliant USB audio interface supports audio playback and recording, while the USB host port enables audio playback from USB flash drives and backup of system configurations.

For additional users, customized mixer interfaces with restricted access rights can be configured. These interfaces can also be deployed as a Virtual Control Panel for basic system control from mobile devices or installed devices using a web browser.

Parts included

Quantity	Component
1	PM3000-X powered mixer
2	Rack ears
8	Screws for rack ears
1	Euroblock control port connector 8-pin
1	Power cord
4	Rubber feet
1	Quick installation guide
1	Safety and important information booklet

Technical specifications

OUTPUT POWER	
Total rated output power[1]	3000 W
Number of amplifier channels	4

Load	2 Ω	2.7 Ω	4 Ω	8 Ω
Maximum Output Power [1]				
All channels equally driven	750 W	750 W	600 W	750 W
Max. per channel	1000 W	800 W	600 W	1000 W

Direct Drive	70 V	100 V
Maximum Output Power [1]		
All channels equally driven	750 W	750 W
Max. per channel	750 W	1000 W

Maximum Output Voltage, 5 - 16 Ω mode, per channel	145 V_{peak}
Maximum Output Current, 2 - 4 Ω mode, per channel	33 A_{peak}

[1]Test signal for max. output power according to IHF-A-202 (Dynamic-Headroom, burst 1 kHz / 20 ms on / 480 ms off / low level -20 dB)

AMPLIFIER	
Voltage Gain, ref. Line Out Lo-Z / 70V / 100V mode	30 dB / 33 dB / 36 dB
Input Sensitivity, Mic in, all level controls in max. position, 100V mode	-74 dBu (155 µV)
THD+N 3 dB below max, 1 kHz, AES17	< 0.1%
Crosstalk ref. 1 kHz, 12 dB below max, 8 Ω	< -75 dB
Frequency Response ref. 1 kHz, Mic In to Speaker Out	20 Hz to 20 kHz (±1 dB)
Damping Factor 20 Hz to 200 Hz, 8 Ω	> 200
Output Stage Topology	Class D, fixed frequency
Output Noise, A-weighted, Fader down, Eco mode	< -70 dBu

MIXER	
Mic/Line Inputs	
Channels	8
Gain	0 to 60 dB

MIXER		
Phantom power	+48 V, switchable per input	
Line Attenuation	14 dB	
Max. Input Level Mic, balanced / unbalanced	+18 dBu / +12 dBu	
Max. Input Level Line, balanced / unbalanced	+32 dBu / +22 dBu	
Input Impedance Mic / Line, balanced	3.4 kΩ / 18 kΩ	
E.I.N. (A-weighted) @ 150 Ω	-127 dBu	
CMRR, 30 dB Gain, 1 kHz	> 80 dB	
AD conversion	24 bit, 120 dB(A) dynamic range	
Line Outputs		
Mix Busses	Aux 1, Aux 2, Master, PFL	
Mix Outputs	Aux 1, Aux 2, Master, Master B, Phones	
Max. Output Level	+18 dBu	
Line output impedance	100 Ω, active balanced	
Output Noise, A-weighted, Fader down	< -96 dBu	
Phones output	to drive 16 - 250 Ω	
DA conversion	24 bit, 115 dB(A) dynamic range	
Mic Inputs to Line Outputs		
Frequency response, ref. 1 kHz	20 Hz to 20 kHz (±0.5 dB)	
THD+N, +15 dBu, 1 kHz, AES17	< 0.003%	
Latency	0.96 ms	
Reference level for 0 dBFS	+18 dBu	
Channel Signal Processing		
High-Pass Filter	80 Hz, 24 dB/Oct.	
Vocal Voicing Filter	special filter for voice enhancement	
4-Band EQ	Lo-Shelf (60 Hz), Lo-Mid (300 Hz), Hi-Mid (3 kHz), Hi-Shelf (12 kHz), ±15 dB	
X-TRA EQ+	Low	Shelf/Bell (Q = 3.0), 20 Hz - 200 Hz, ±15 dB
	Lo-Mid	Q = 1.0 / 3.0, 100 Hz - 2 kHz, ±15 dB
	Hi-Mid	Q = 1.0 / 3.0, 400 Hz - 8 kHz, ±15 dB
	High	Shelf/Bell (Q = 3.0), 2 kHz - 20 kHz, ±15 dB
X-TRA Compressor	Threshold, Ratio, Gain, slow/fast, Bypass	
X-TRA Noise-Gate	Threshold, Depth, Hold, slow/fast, Bypass	
Automixer	gain-sharing for channels 1 - 8	
Ducker	for USB input (triggered by channels 1 - 8)	
PAN / BAL	Channels 1 - 8 / USB	
Level, Mute, input VU	Channels 1 - 8, USB input	
Graphic EQs	2 x stereo (Master, Master B), 2 x mono (Aux 1, Aux 2)	

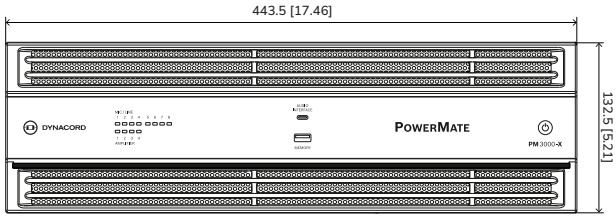
MIXER	
Graphic EQ frequencies	63, 100, 160, 250, 400, 630 Hz, 1.0, 1.6, 2.5, 4.0, 6.3, 12.0 kHz, ±10 dB
Feedback Filter (Aux 1 & Aux 2)	Notch filter (Q = 10), 70 Hz - 7 kHz
Mixer Presets	10
Effects	
FX engines	2 x Classic Dynacord Stereo FX (Reverbs, Delays, …)
Factory presets	100 with 4 editable parameters
User presets for FX	20 per FX engine
USB	
Audio Interface	2 in x 2 out, 44.1 / 48 kHz, class-compliant
File player (Media)	44.1 / 48 kHz, wav, mp3
Equivalent input level	+18 dBu @ 0 dBFS

OUTPUT SIGNAL PROCESSING	
Sample rate	48 kHz
Speaker processing	FIR-Drive settings for 8 outputs (4 amp channels, Aux 1 & 2, Master B)
Output delay	8 x 300 ms (4 amp channels, Aux 1 & 2, Master B)
Output Presets	10

CONNECTIVITY	
Mic/Line Inputs	8 x Combo XLR/TRS
Master and Aux Outputs	4 x XLR, balanced
Master B Outputs	2 x 1/4" TRS, balanced
Headphone Output (Phones)	1 x 1/4" TRS, stereo
USB Audio Interface (front)	1 x USB-C, power sourcing 5 V / 1.5 A
USB Media (front)	1 x USB-A, 5 V / 0.5 A
USB Power Only (rear)	1 x USB-C, 5 V / 1.5 A
Speaker Outputs	4 x 4-pole twist-lock
Footswitch	1 x 1/4" TRS, (T: on/off, R: 3.5V / 20mA, S: GND)
MIDI IN	1 x 5-pin DIN
Ethernet	2 x RJ45
Mains Input	1 x IEC C14, V-Lock
Control Port	
GPI Control Port	3 x GPI, Analog In / Digital In mode
Type	1 x 8-pin Euroblock, male
Analog input range	0 V to +13 V, 133 kΩ input resistance
Digital input	ON: < 1.5 V, OFF: > 2.0 V, internal pull-up (10 kΩ / 10 V)
Reference voltage output	+10 V, max. 200 mA, supervised, short-circuit protected
READY/FAULT contact	Galvanically isolated relay, max. 30 V_{DC} / 500 mA_{DC}

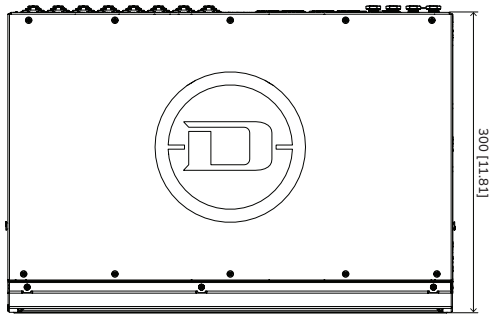
GENERAL	
Power consumption	
Rated power consumption	550 W
Idle/Eco mode (output power < 1 W)	26 W
Standby mode	10 W
Power Requirements	100 V to 240 V, 50 Hz to 60 Hz AC
Power Supply Topology	Switching Mode Power Supply with digitally controlled power factor correction (PFC)
Protections	Audio Limiters, High Temperature, DC, HF, Short Circuit, Back-EMF, Peak Current Limiters, Inrush Current Limiters, Mains Current Limiter, Mains Over-/Under Voltage Protection
Cooling	Front-to-rear, temperature controlled fans
Operating Temperature Range	+5 °C to +40 °C (+41 °F to +104 °F)
IEC Protection Class	Class I (grounded)
Electromagnetic Environment	E1, E2, E3 acc. EN 55103
Safety	IEC 62368-1:2018, UL 62368-1, CSA C22.2 No. 62368-1
EMC	EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 61000-3-2:2019+A2:2024, EN 61000-3-3:2013
FCC/ICES	47 CFR Part 15 (Class B) (US), ICES-003 (Canada)
Color	Black
Dimensions (W x H x D), without rack ears	444 mm x 133 mm x 300 mm (17.5 in x 5.3 in x 11.9 in)
Weight	10.4 kg (23.0 lb)
Shipping weight	13.4 kg (29.5 lb)

Device at rated conditions: Mic in, Gain 0 dB, Faders 0 dB, 2 - 4 Ω mode, 4 Ω loads, all channels driven, unless otherwise specified.



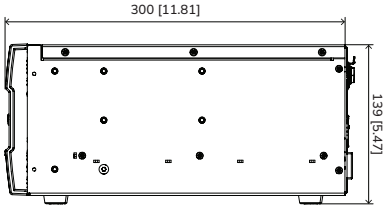
mm [in]

Fig. 1: Front view dimensions



mm [in]

Fig. 2: Upper view dimensions



mm [in]

Fig. 3: Side view dimensions

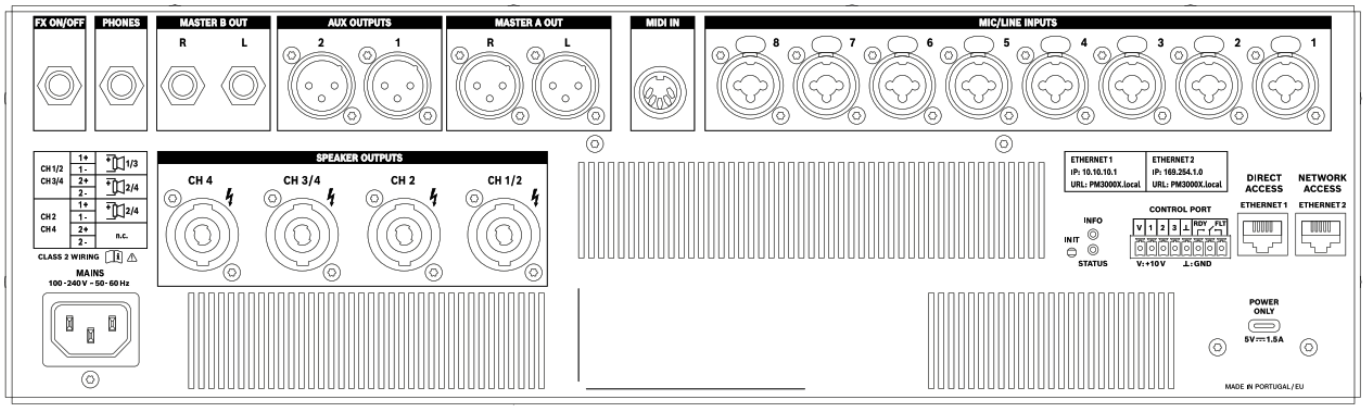


Fig. 4: Rear panel connections

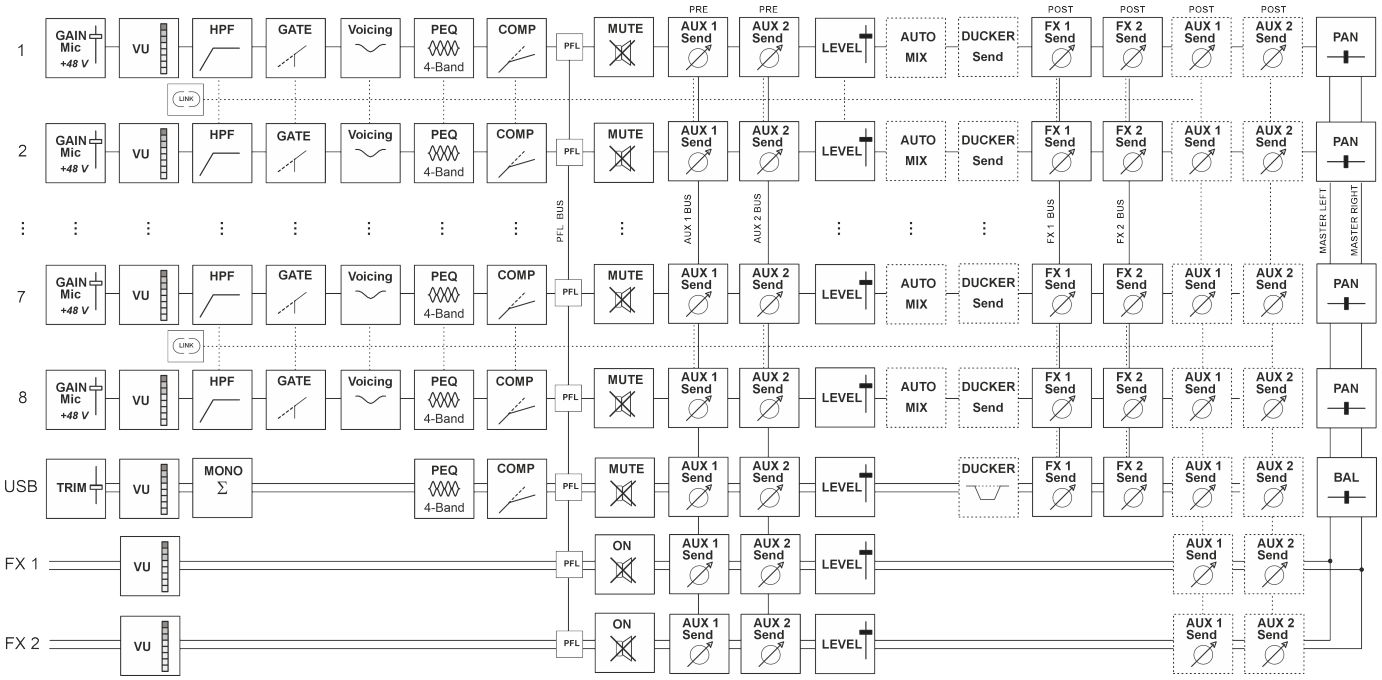


Fig. 5: DSP block diagram for inputs

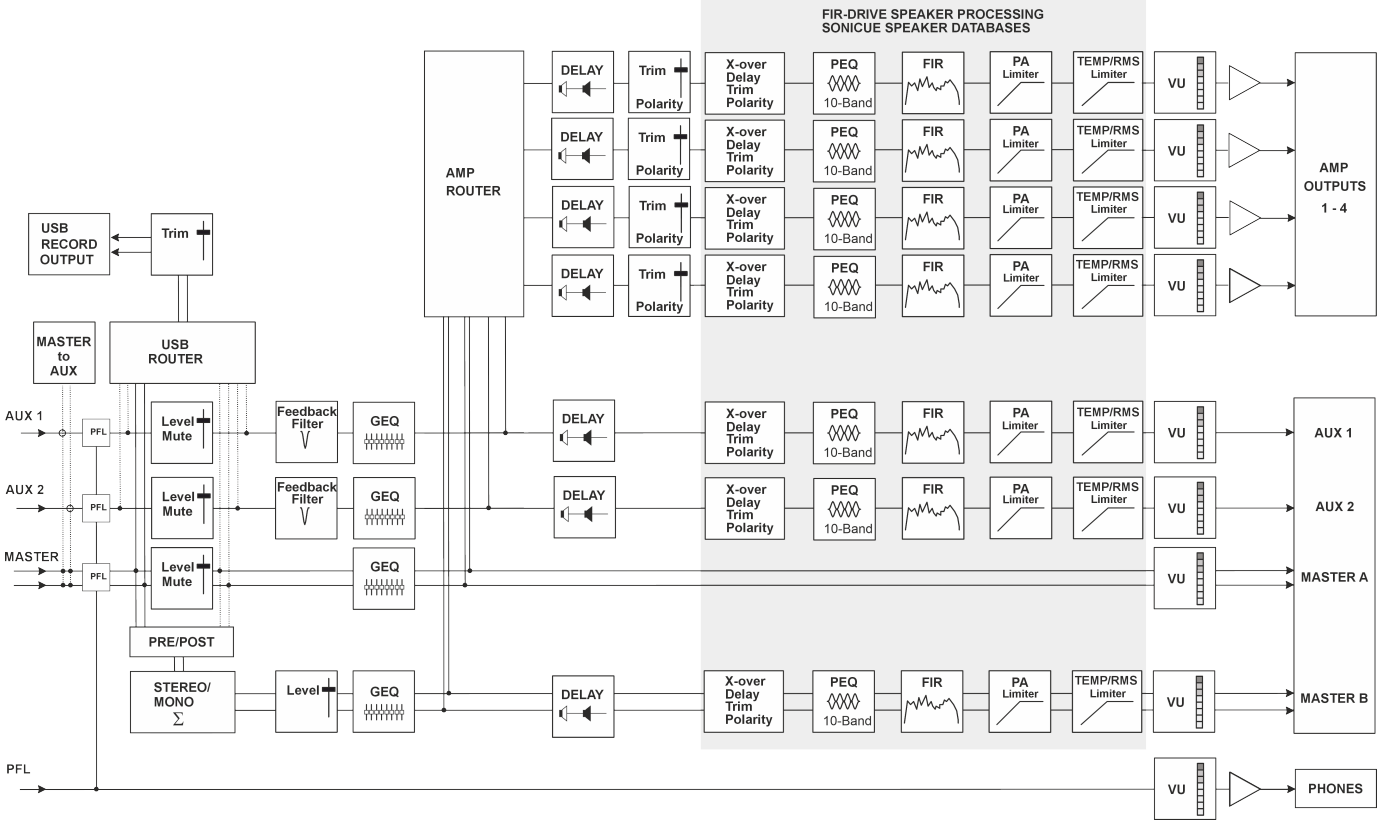


Fig. 6: DSP block diagram for outputs

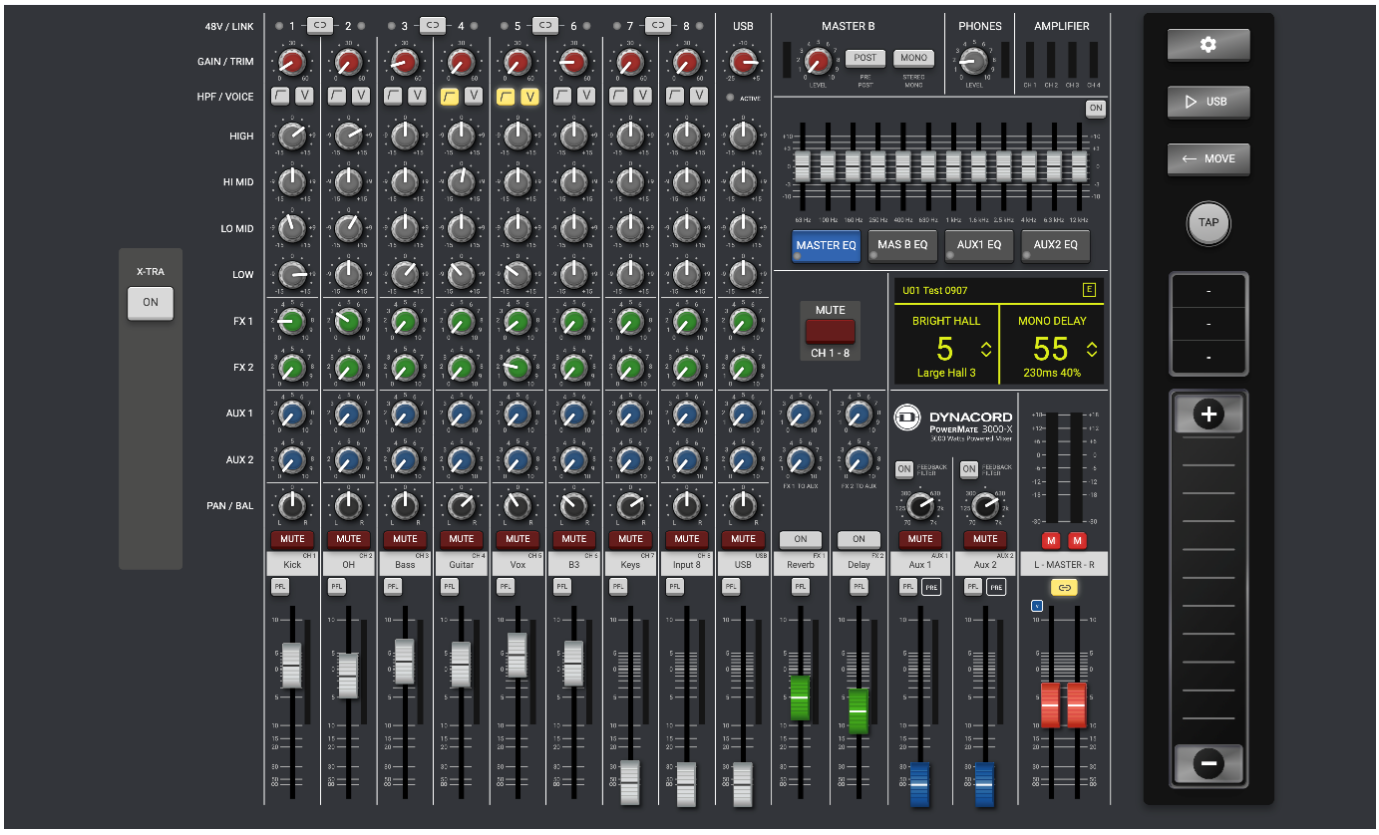


Fig. 7: Web UI

Ordering information

PM3000-X Powered mixer, 3kW, 4 ch, 8 inputs
Powered mixer with 8 mic/line inputs, 2 FX blocks, 2x2 USB, 4 amplifier outputs, Hi-Z/Lo-Z, 3 kW, mixing Web UI
Order number **PM3000-X | Z.01X.002.914**

https://www.dynacord.com

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