

MX1604A

EUROBRACK®

Technical Specifications

Version 1.1 May 2000

ENGLISH

EUROBRACK MX1604A
ULTRA-LOW NOISE DESIGN
16-CHANNEL MIC / LINE MIXER

MIC 1 **MIC 2** **MIC 3** **MIC 4**

LINE IN 1 LINE IN 2 LINE IN 3 LINE IN 4

STEREO AUX RETURNS AUX SENDS

2-TRACK IN / OUT CTRL R OUT

PHONES

1 **2** **3** **4** **5/6** **7/8** **9/10** **11/12** **ALT 3-4** **MAIN MIX**

Technical specifications for each channel and main mix:

- Inputs:** MIC 1-4, LINE IN 1-4, STEREO AUX RETURNS (LEFT/MONO, RIGHT), AUX SENDS (LEFT/MONO, RIGHT), 2-TRACK IN / OUT (L, R), CTRL R OUT (L, R), LINE IN 5/6 (MONO), LINE IN 7/8 (MONO), LINE IN 9/10 (MONO), LINE IN 11/12 (MONO).
- EQ:** 100Hz, 2.5kHz, 8.2kHz, 20kHz.
- Filters:** LO CUT (16dB/20dB, 78Hz).
- Gain:** MIC GAIN (LINE IN 110, -20dB), LINE GAIN (LINE IN 110, -20dB).
- Processing:** ALX RETURNS (1, 2), ALX SENDS (1, 2), BAL (LEFT, RIGHT), PAN (LEFT, RIGHT), MUTE (ALT 3-4).
- Meters:** VU meters for channels 1-12, ALT 3-4, and MAIN MIX (L, R).
- Other:** POWER +48V, CHANNEL MODE (PFL, SOLID), CTRL R / PHONES.



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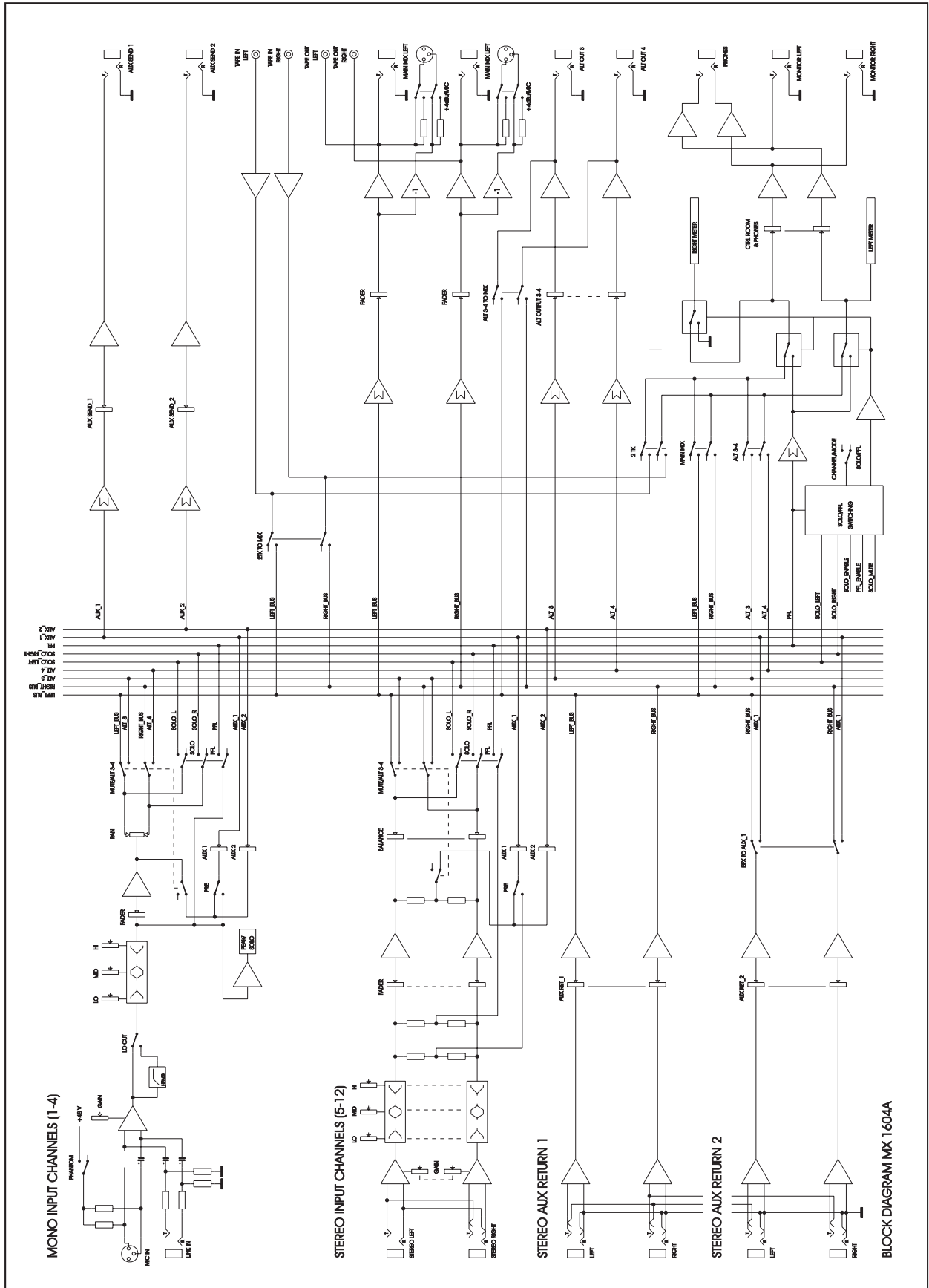
MX1604A

Ultra-Low Noise 12 Channel, 4-Bus Mic/Line Mixer

- ▲ Ultra-low noise 16-channel 4-Bus Mixer
- ▲ 4 mono input channels with gold plated XLRs
- ▲ Ultra-low noise discrete Mic Pre-amps with +48 V Phantom Power
- ▲ 4 stereo input channels
- ▲ 2 additional multi-functional stereo Aux Returns
- ▲ Extremely high headroom – offering more dynamic range
- ▲ Balanced inputs and Main outputs
- ▲ Ultra-musical 3-band EQ on all channels
- ▲ Peak LEDs and switchable Low Cut filter on all mono channels
- ▲ Pre and post fader Aux Sends for external effects and monitoring
- ▲ Master Aux Sends with gain control
- ▲ Mute / Alt 3-4, Solo-In-Place and Pre-Fader-Listen function on all channels
- ▲ Separate Main Mix, Control Room and Headphone outputs
- ▲ 2-Track inputs assignable to Main Mix or Control Room / Headphone outputs
- ▲ Highly accurate Bargraph Meters on output
- ▲ High quality 60 mm faders and sealed potentiometers
- ▲ Rugged design Power Supply ensures superior transient response
- ▲ State-of-the-art 4580 ICs and high quality components ensure crystal-clear Audio Performance and excellent noise figures
- ▲ 19" Rack Mounting kit included
- ▲ Extremely rugged construction ensures long life even under the most demanding conditions
- ▲ Manufactured under ISO9000 certified management system

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BLOCK DIAGRAM



SPECIFICATIONS

Input channels

Mic input	electronically balanced, discrete input configuration
Mic E.I.N. (22 Hz - 22 kHz)	-129.5 dBu, 150 Ohm source -117.3 dBqp, 150 Ohm source -132.0 dBu, input shorted -122.0 dBqp, input shorted
Distortion (THD&N)	0.007% at +4 dBu, 1 kHz, Bandwidth 80 kHz
Gain range	+10 dB to +60 dB
Max input (Mic)	+12 dBu
Line input	electronically balanced
Sensitivity range	+10 dBu to -40 dBu
Max input (line)	+22 dBu
Channel fader range	+10 dB to -85 dB
Aux Send gain range	off to +15 dB

Equalization

Hi shelving	12 kHz +/- 15 dB, Q fixed at 2 oct.
Mid bell	2.5 kHz +/- 15 dB, Q fixed at 2 oct.
Lo shelving	80 Hz +/- 15 dB, Q fixed at 2 oct.
Lo Cut filter	-3 dB at 75 Hz, 18 dB/oct.

Main Mix Section

Noise	bus noise, fader 0 dB, channels muted: -100.0 dBr (ref.: +4 dBu), fader 0 dB, all input channels assigned and set to Unity Gain: -88.5 dBr (ref.: +4 dBu)
Max output	+28 dBu balanced XLR, +22 dBu unbalanced, 1/4" jacks
Aux Returns gain range	off to Unity to +20 dB
Aux Sends max out	+22 dBu

General

Distortion (THD&N)	0.007 %, at +4 dBu, 1 kHz, bandwidth 80 kHz below 0.02 %, 22 Hz - 22 kHz normal operating levels, any input to any output, bandwidth 80 kHz
Frequency Response	10 Hz - 120 kHz +/- 3 dB, any input to any output

Power Supply

External Power Supply	USA/Canada	115 V ~, 60 Hz, power supply MXUL2
	U.K./Australia	240 V ~, 50 Hz, power supply MXUK2
	Europe	230 V ~, 50 Hz, power supply MXEU2
	Japan	100 V ~, 60 Hz, power supply MXJP2

Physical

Dimensions (H * W * D)	app. 1.34" / 3.31" (34 mm / 84 mm) * 11.42" (290 mm) * 14.49" (368 mm)
Net weight	app. 3,9 kg (PSU not included)

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