



[Pictured actual size]

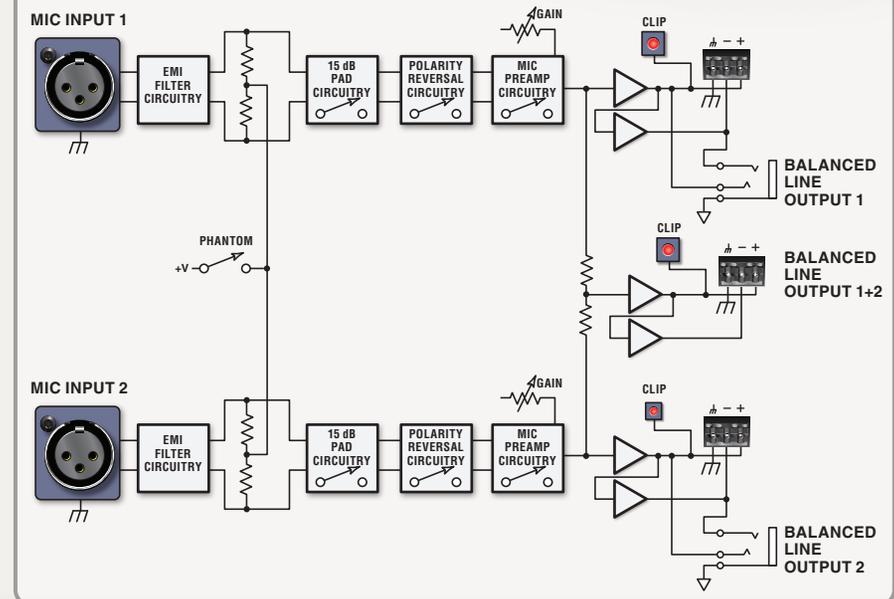
The 302 Dual Microphone Preamp from Symetrix.

This dual microphone preamplifier delivers substantial sonic improvements over stock mixers or console preamps: solid stereo imaging, excellent transient response, very low noise, and almost undetectable distortion. Start your mix off right with the 302 Dual Microphone Preamplifier from Symetrix, the engineering-driven company of signal processing specialists.

302 Features

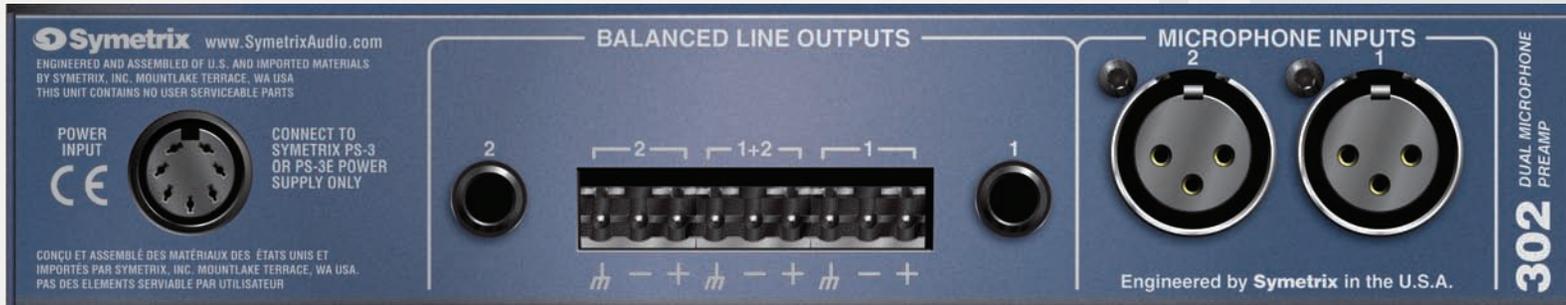
- Half rack space, two (2) channel analog microphone preamp. Applications: Broadcast, Sound Reinforcement, Digital and Analog Recording, Podcasting.
- Solid stereo imaging, excellent transient response, very low noise floor, and almost undetectable distortion.
- Variable input gain from 20-60 dB.
- Polarity reverse switch, 15 dB pad switch.
- +48 Volt phantom power.

302 Block Diagram





302 DUAL MICROPHONE PREAMP



[Pictured actual size]

Specifications

Input/Output

Input Type: Low Z Transformer

Maximum Input Level: +14 dBV (with pad "In")

Maximum Output Level: +24 dBu Balanced, 10k Ω load
+22 dBu Balanced, 600 Ω load

Input Impedance: >3k Ω

Output Impedance: 300 Ω Balanced, 150 Ω Unbalanced

Performance Data

Clip Indicators: Red LEDs, fire 3 dB below clipping

Frequency Response: 20 Hz to 20 kHz, +0, -1 dB

THD+Noise: 0.007% (1 kHz, 0 dBu, 600 Ω out);

0.01% (1 kHz, +22 dBu, 600 Ω out)

Signal to Noise Ratio: 95 dB (-50 dBV, 150 Ω in)

EIN < -128 dBu (150 Ω source, 60 dB gain, 22 kHz bandwidth)

Phantom Power: +48V

Minimum Gain: 20 dB

Maximum Gain: 60 dB

Connections

Input: XLR

Output: 1/4" TRS jacks, Euroblock

Power In: 7-pin DIN

Physical

Size: (HxWxD) 1/2 rack unit,

1.75 in. x 8.5 in. x 6.5 in. (4.45 cm x 21.59 cm x 15.88 cm)

Shipping Weight: 4.6 lbs. / 2.09 kg

Electrical

Power Requirements:

115 VAC nominal, 95 to 130 VAC, 50 to 60 Hz, 10 Watts

230 VAC nominal, 207 to 253 VAC, 50 Hz, 10 Watts

Environment

Maximum operating ambient temperature: 30° C.

Architects and Engineers Specifications

The microphone preamp shall be a high performance, dual channel, unit that is of a single half rack space wide and one rack space high. The unit shall provide two independent channels of pre-amplification designed to boost nominally mic level signals to line level. Each channel shall have a gain control that is continuously variable from 20 dB to 60 dB of gain, a 15 dB input pad, a polarity reversal switch, and an LED indicator that lights in the presence of signal peaks. There shall also be a front panel pushbutton switch to engage phantom power, and an LED that indicates the presence of AC power. The following connections shall be available on the rear panel. Each channel shall have an XLR3 mic input (wired pin 1 = ground, pin 2 = +, pin 3 = -), a TRS line level output, and a Euroblock-style removable terminal strip line level output. There shall also be a mix output that provides a sum of channels 1 and 2 via a Euroblock-style removable terminal strip. The unit shall be capable of operating by means of a Symetrix PS-3 or PS-3E external power supply connected to 115 VAC nominal (95 to 130 VAC), 50/60 Hz or 230 VAC nominal (207 to 253 VAC), 50 Hz where applicable. The microphone preamp shall be the Symetrix Inc. model **302 Dual Microphone Preamplifier**.

© 2007, Symetrix, Inc. All rights reserved. In the interest of continuous product improvement, features and specifications are subject to change without notice.

Engineered by Symetrix™

6408 216th St. SW | Mountlake Terrace, WA 98043 | USA | Tel: +1 (425) 778.7728 | Fax: +1 (425) 778.7727 | Web: www.SymetrixAudio.com