

300 SERIES PRODUCTS FROM SYMETRIX

Audio Tools for Installed Sound & Broadcast Production



302 Dual Microphone Preamplifier

A DUAL MICROPHONE PREAMPLIFIER designed for broadcast, sound reinforcement, and digital and analog recording. Offers substantial sonic improvements over stock mixers or console preamps. Has solid stereo imaging, excellent transient response, very low noise, and almost undetectable distortion. A mono summed 1+2 output is also provided.

- Polarity reversal switches and 15 dB pads on both channels.
- +48 volt phantom power.
- Gain variable from 20 to 60 dB, works with virtually any professional microphone.



304 Headphone Amplifier

A STEREO IN, FOUR OUTPUT amp which drives headphones of any impedance. Used in broadcast, installed sound, and recording applications. High voltage technology provides a 6dB volume increase over most competing units. Compact half rack chassis permits 8 channels in one rack space.

- Individual volume controls for each output, master input volume.
- Stereo or mono operation, balanced or unbalanced input.
- Pass Thru jacks permit daisy-chaining of multiple units.

300 Series Accessories

The following accessories are available for use with all Symetrix 300 series products.

- RM-3 single rack space shelf which holds two 300 series products side by side.
- FP3 half rack filler panel for use when rack mounting only one 300 series product on an RM-3.
- PS-3, PS-3E, PS-3J external power supply for 115 VAC (PS-3), 230 VAC (PS-3E) or 100 VAC (PS-3J) markets. One supply included with each 300 series product.



303 Interface Amplifier (Bi-directional)

A STEREO LEVEL MATCHING AMPLIFIER that accepts balanced or unbalanced inputs and converts them to balanced or unbalanced outputs. Use the 303 to interface a consumer DAT, cassette recorder or computer sound card to a professional recording console or to other +4 dBu nominal level equipment.

- Simple, affordable conversion of consumer audio to pro audio without loss of information.
- Stereo XLR and RCA input and output jacks.
- External power supply ensures low noise operation.



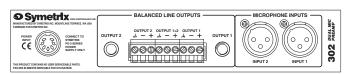
305 Distribution Amplifier (1x4)

A ONE INPUT/FOUR OUTPUT mono distribution amplifier. Use the 305 to route your most critical audio to four separate outputs. Sound contractors will find the 305 essential for feeding multiple power amps. Broadcast engineers can easily and inexpensively distribute satellite audio around their station with the 305.

- Euroblock terminal connectors for quick installation.
- Precision circuitry yields THD+Noise less than .009%.
- Four-segment LED input level meter. Individual trim pots for input and output volume attenuation.



SPECIFICATIONS



302 Dual Microphone Preamplifier

Input/Output Input Type Low Z Transformerless Maximum Input Level +14dBV (with pad "In") Maximum Output Level +24dBu Balanced, 10k Ohm load +22dBu Balanced, 600 Ohm load Input Impedance >3k Ohms Output Impedance 300 Ohms Balanced, 150 Ohms Unbalanced Performance Data red LEDs, fire 3dB below clipping Clip Indicators 20Hz to 20kHz, +0, -1dB Frequency Response 0.007% (1kHz, 0dBu, 600 Ohms out) THD+Noise 0.01% (1kHz, +22dBu, 600 Ohms out) Signal to Noise Ratio 95dB (-50dBV, 150 Ohms in) ΕΙŇ < -128dBu (150 Ohms source, 60dB gain, 22kHz bandwidth) Phantom Power Minimum Gain 20dB Maximum Gain 60dB

Connections

XLR Input 1/4" TRS jacks. Euroblock Output 7-pin DIN Power In

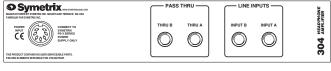
Physical

Size (HxWxD) 1/2 rack unit

1.75 in. x 8.5 in. x 6.5 in., 4.445 cm x 21.59 cm x 15.875 cm 4.6 lbs. Shipping Weight

Electrical

Power Requirements 115V nominal, 95 to 130 VAC, 50 to 60 Hz, 10 Watts 230V nominal, 165 to 255 VAC, 50 Hz, 10 Watts



304 Headphone Amplifier

Input/Output Input Type Bridging, Balanced or Unbalanced Maximum Input Level +18dBu Maximum Output Level +25dBm, 600 Ohm load, > 10Vrms, 200 Ohm load Input Impedance 20k Ohms Balanced, 10k Ohms Unbalanced Output Impedance 100 Ohms

Performance Data 20Hz to 20kHz, +0, -1dB Frequency Response 0.01% (1kHz, 0dBu, 600 Ohms) THD+Noise 0.02% (1kHz, +24dBm, 600 Ohms) Signal to Noise Ratio 95dB

Maximum Gain Connections

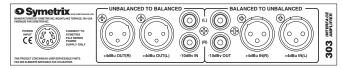
Input 1/4" TRS jacks Output 1/4" TRS jacks 7-pin DIN Power In

Physical Size (HxWxD)

1.75 in. x 8.5 in. x 6.5 in., 4.445 cm x 21.59 cm x 15.875 cm Shipping Weight 4.5 lbs.

Electrical

Power Requirements 115V nominal, 95 to 130 VAC, 50 to 60 Hz, 10 Watts 230V nominal, 165 to 255 VAC, 50 Hz, 10 Watts



303 Interface Amplifier (Bi-directional)

Input/Output: +4dBu to -10dBV Circuit Maximum Input Level +28dBu Balanced, +22dBu Unbalanced Maximum Output Level +18dBV Unbalanced Input Impedance 40k Ohms Balanced, 20k Ohms Unbalanced Output Impedance 100 Ohms Unbalanced Input Common Mode Rejection > 40dB

Performance Data: +4dBu to -10dBV Circuit

10Hz to 30kHz, +0, -1dB Frequency Response THD+Noise < 0.005% at +28dBu Gain -12dB

Input/Output: -10dBV to +4dBu Circuit

+8dBV Unbalanced Maximum Input Level Maximum Output Level +24dBm Balanced, 600 Ohm load +18dBm Unbalanced, 600 Ohm load Input Impedance 100k Ohms Unbalanced Output Impedance 200 Ohms Balanced, 100 Ohms Unbalanced

Performance Data: -10dBV to +4dBu Circuit

Frequency Response 10Hz to 30kHz, +0, -1dB THD+Noise < 0.005% at +8dBV +12dB Gain

Connections

XLR, RCA jacks Input Output XLR, RCA jacks 7-pin DIN Power In

Physical

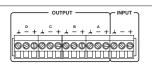
Size (HxWxD) 1/2 rack unit 1.75 in. x 8.5 in. x 6.5 in., 4.445 cm x 21.59 cm x 15.875 cm

Shipping Weight 4.5 lbs.

Electrical

115V nominal, 95 to 130 VAC, 50 to 60 Hz, 10 Watts Power Requirements 230V nominal, 165 to 255 VAC, 50 Hz, 10 Watts





DISTRIBUTION AMPLIFIER

305

305 Distribution Amplifier (1x4)

Input/Output Maximum Input Level +26dBu Balanced Maximum Output Level +26dBu Balanced (20k Ohm load) +22dBm (200 Ohm load) Input Impedance 20k Ohms Balanced, 10k Ohms Unbalanced 200 Ohms Balanced, 100 Ohms Unbalanced Output Impedance

Performance Data 20Hz to 20kHz, +0, -1dB Frequency Response THD+Noise < 0.009% at +26dBu (30kHz bandwidth) Signal to Noise Ratio > 100dB, A-weighted at +4dBu Dynamic Range > 125dB, A-weighted Common Mode Rejection > 40dB, 20Hz to 20kHz Input Gain Range +/- 15dB Output Gain Range 0 to -20dB

Connections Input/Outputs

Euroblock 7-pin DIN Power In

Physical Size (HxWxD)

sales@symetrixaudio.com

1/2 rack 1.75 in. x 8.5 in. x 6.5 in., 4.445 cm x 21.59 cm x 15.875 cm Shipping Weight 4.5 lbs.

Electrical

115V nominal. 95 to 130 VAC. 50 to 60 Hz. 10 Watts Power Requirements 230V nominal, 165 to 255 VAC, 50 Hz, 10 Watts



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20dB

1/2 rack

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