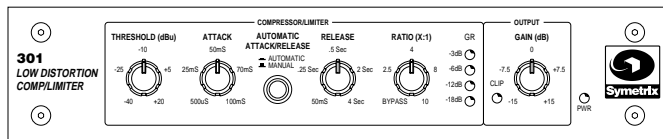


300 SERIES PRODUCTS FROM SYMETRIX:

Audio Tools for Installed Sound & Broadcast Production



301 Low Distortion Comp/Limiter

A MONO COMP/LIMITER that delivers extremely clean compression for installed sound and broadcast applications. Unique circuitry eliminates secondary causes of distortion during compression, allowing use of shorter release times. PY-3 accessory Y power cord permits two 301's to share a single power supply.

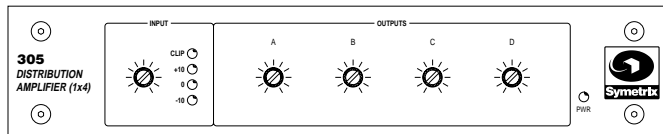
- Automatic Attack/Release button for quick preset setup.
- 115dB Dynamic Range. Ultra-low THD+Noise of less than .008% at any gain reduction level.
- XLR and Euroblock input & output connections.



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 +4dBu nominal level equipment.

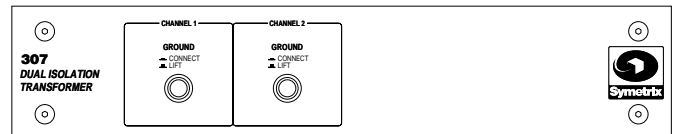
- Simple, affordable conversion of consumer audio to pro audio without loss of information.
- Stereo XLR and RCA input and output jacks.
- External power supply ensures low noise operation.



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.



307 Dual Isolation Transformer

A TWO INPUT/TWO OUTPUT isolation box for use in installed sound and broadcast audio systems. Isolates ground, positive and negative audio paths to break up ground loops and improve overall system performance. Interfaces balanced and unbalanced devices. Increases resistance to RF interference.

- Euroblock terminal connectors for quick installation.
- Two high-performance audio transformers.
- Flexible grounding options.

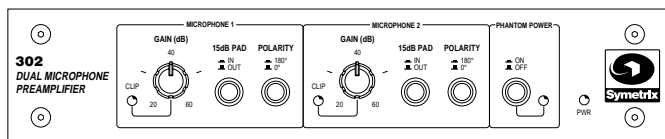
300 Series Audio Tools from Symetrix:
True-blue performance for installed sound and broadcast production.



300 SERIES PRODUCTS FROM SYMETRIX:

Audio Tools for Installed Sound & Broadcast Production

PRELIMINARY DATA FOR NEW PRODUCTS

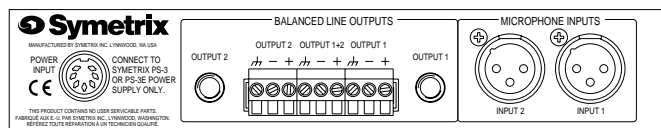


302 Dual Microphone Preamplifier

DESIGNED FOR BROADCAST, SOUND REINFORCEMENT, and digital and analog recording. Offering substantial sonic improvements over stock mixers or console preamps, the 302 has solid stereo imaging, excellent transient response, very low noise, and almost undetectable distortion.

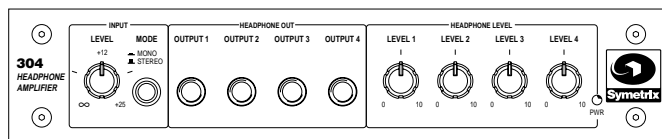
- Polarity reversal switches and 15dB pads on both channels.
- +48 volt phantom power.
- Gain variable from 20-60dB, works with virtually any professional microphone.

SPECIFICATIONS



302 Dual Microphone Preamplifier

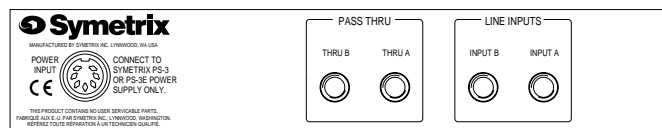
Input/Output	
Input Type	Low Z Balanced, Transformerless
Maximum Input Level	+14dBV (with pad "In")
Maximum Output Level	+24dBu Balanced, 10k Ohm load +22dBu Balanced, 600 Ohm load
Input Impedance	>3k Ohms
Output Impedance	300 Ohms Balanced, 150 Ohms Unbalanced
Performance Data	
Clip Indicators	red LEDs, fire 3dB below clipping
Frequency Response	20Hz to 20kHz, +0, -1dB
THD+Noise	.007% (1kHz, 0dBu, 600 Ohms out) .01% (1kHz, +22dBu, 600 Ohms out)
Signal to Noise Ratio	95dB (-50 dBV, 150 Ohms in)
EIN	<-128dBu (150 Ohms source, 60dB gain 22kHz bandwidth)
Phantom Power	+48V
Minimum Gain	20dB
Maximum Gain	60dB
Connections	
Input	XLR
Output	TRS jacks, Euroblock
Power In	7 pin DIN
Physical	
Size (hwd)	1/2 rack unit 1.75 x 8.5 x 6.5 in., 4.445 x 21.59 x 15.875 cm.
Shipping Weight	4.5 lbs.
Electrical	
Power Requirements	117V nominal, 95 to 130V AC, 50 to 60Hz 230V nominal, 165 to 255V AC, 50Hz



304 Headphone Amplifier

STEREO IN, FOUR OUTPUT AMP drives headphones of any impedance. Used in broadcast, installed sound, and recording applications. High voltage technology provides 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.



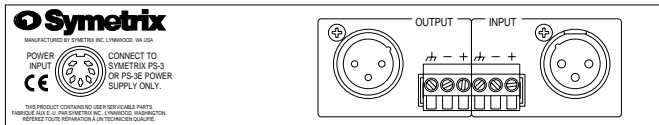
304 Headphone Amplifier

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	
Frequency Response	20Hz to 20kHz, +0, -1dB
THD+Noise	.01% (1kHz, 0dBm, 600 Ohms) .02% (1kHz, +24dBm, 600 Ohms)
Signal to Noise Ratio	95dB
Maximum Gain	20dB
Connections	
Input	1/4" TRS jacks
Output	1/4" TRS jacks
Power In	7 pin DIN
Physical	
Size (hwd)	1/2 rack unit 1.75 x 8.5 x 6.5 in., 4.445 x 21.59 x 15.875 cm.
Shipping Weight	4.5 lbs.
Electrical	
Power Requirements	117V nominal, 95 to 130V AC, 50 to 60Hz 230V nominal, 165 to 255V AC, 50Hz



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SPECIFICATIONS



301 Low Distortion Comp/Limiter

Input/Output

Maximum Input Level	+20dBu Balanced
Maximum Output Level	+22dBu Balanced, +18 dBu Unbalanced
Input Impedance	20k Ohms Balanced, 10k Ohms Unbalanced
Output Impedance	200 Ohms Balanced, 100 Ohms Unbalanced
CMRR	>40dB

Performance Data

Frequency Response	10Hz to 60kHz, +0, -3dB
Dynamic Range	115dB (difference of max output and noise floor)
THD+Noise	<.008%, +4dBu in, +4dBu out, 0dB gain reduction
Gain Control	+/-15dB center detent
Output Noise	-90dBu measured at balanced output, input terminated in 600 Ohms, 20kHz low pass

Compressor

Type	RMS responding
Attack Time	500µs to 100ms
Release Time	50ms to 4S
Threshold	-40dBu to +20dBu
Ratio	Bypass to 10:1

Connections

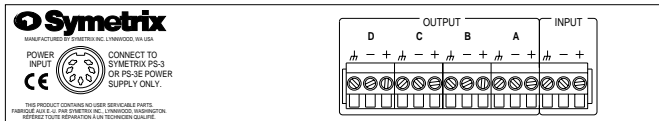
Input & Output	XLR, Euroblock
Polarity	pin 2 of XLR is hot
Power In	7 pin DIN

Physical

Size (hwd)	1/2 rack unit
Shipping Weight	1.75 x 8.5 x 6.5 in., 4.445 x 21.59 x 15.875 cm. 4.5 lbs.

Electrical

Power Requirements	117V nominal, 95 to 130V AC, 50 to 60Hz 230V nominal, 165 to 255V AC, 50Hz
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305 Distribution Amplifier (1x4)

Input/Output

Maximum Input Level	+26dBu Balanced
Maximum Output Level	+26dBu Balanced (20k Ohm load) +22dBm (600 Ohm load)
Input Impedance	20k Ohms Balanced, 10k Ohms Unbalanced
Output Impedance	200 Ohms Balanced, 100 Ohms Unbalanced

Performance Data

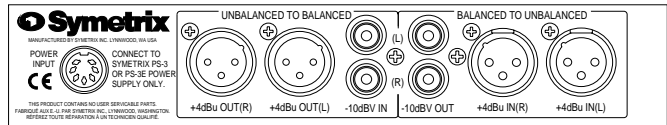
Frequency Response	+/-1/2dB, 20Hz to 20kHz
THD+Noise	<.009% at +26dBu 30kHz measurement bandwidth
Signal to Noise Ratio	>100dB, A-weighted, ref. to +4dBu
Dynamic Range	>125dB, A-weighted
Common Mode Rejection	>40dB, 20Hz to 20kHz
Input Gain Range	+/-15dB
Output Gain Range	0 to -20dB

Physical

Size (hwd)	1/2 rack unit
Shipping Weight	1.75 x 8.5 x 6.5 in., 4.445 x 21.59 x 15.875 cm. 4.5 lbs.

Electrical

Power Requirements	117V nominal, 95 to 130V AC, 50 to 60Hz 230V nominal, 165 to 255V AC, 50Hz
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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

Frequency Response	10Hz to 30kHz, +0, -1dB
THD+Noise	<.005% at +28dBu
Gain	-12dB

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

Maximum Input Level	+8dBV Unbalanced
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	<.005% at +8dBV
Gain	+12dB

Connections

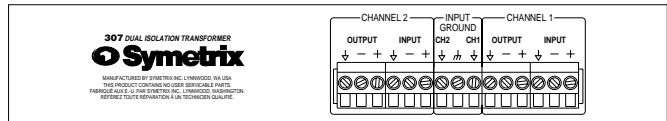
Input	XLR, RCA jacks
Output	XLR, RCA jacks
Power In	7 pin DIN

Physical

Size (hwd)	1/2 rack unit
Shipping Weight	1.75 x 8.5 x 6.5 in., 4.445 x 21.59 x 15.875 cm. 4.5 lbs.

Electrical

Power Requirements	117V nominal, 95 to 130V AC, 50 to 60Hz 230V nominal, 165 to 255V AC, 50Hz
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307 Dual Isolation Transformer

Input/Output

Maximum Input Level	+22dBu Balanced
CMRR	>80dB @ 60Hz

Performance Data

Frequency Response	+/-0.5dB, 20Hz to 100 kHz
THD+Noise	<.005%, 100Hz to 100kHz at +20dBm 50 Ohm source, 100k load
Insertion Loss	<3dB, 600 Ohm load

Connections

Input	Euroblock
Output	Euroblock

Physical

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

Electrical

Power Requirements	no power requirements
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