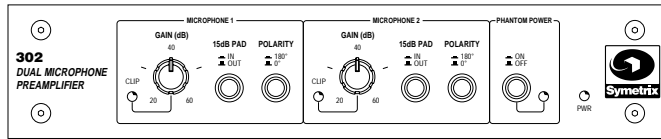


# 300 SERIES FROM SYMETRIX

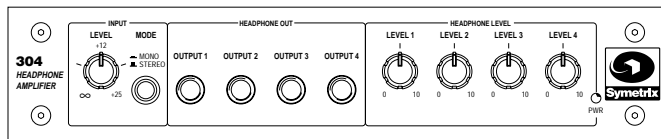
AUDIO TOOLS FOR INSTALLED SOUND & BROADCAST PRODUCTION



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

## 302 DUAL MICROPHONE PREAMPLIFIER

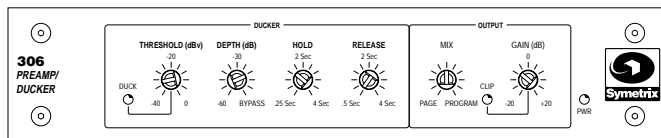
Designed for broadcast, sound reinforcement, and digital and analog recording. Offering substantial sonic improvements over stock mixers or console preamps, the 302 has solid stereo imaging, excellent transient response, very low noise, and almost undetectable distortion.



- 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

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.



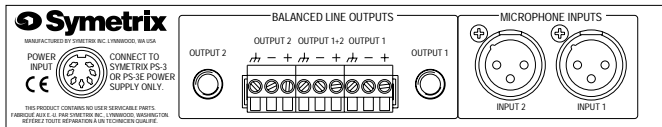
- XLR Mic/Line in for paging systems with switchable phantom power available for condenser mics.
- Stereo RCA Line input for foreground music and program sources.
- Output gain adjustable over a +/-20dB range.

## 306 PREAMP/DUCKER

A streamlined paging/foreground music front-end with comprehensive ducking controls. Separate Threshold, Depth, Hold and Release adjustments allow precise modulation of program material in the presence of a page. Mix control varies the proportion of paging and program material feeding the outputs.

# SPECIFICATIONS

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## 302 Dual Microphone Preamplifier

<b>Input/Output</b>	
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
<b>Performance Data</b>	
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

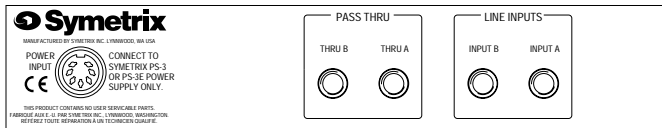
Input	XLR
Output	TRS jacks, Euroblock
Power In	7 pin DIN

### 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	4.6 lbs.

### Electrical

Power Requirements	117V nominal, 95 to 130V AC, 50 to 60Hz, 10 watts 230V nominal, 165 to 255V AC, 50Hz, 10 watts
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## 304 Headphone Amplifier

<b>Input/Output</b>	
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
<b>Performance Data</b>	
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

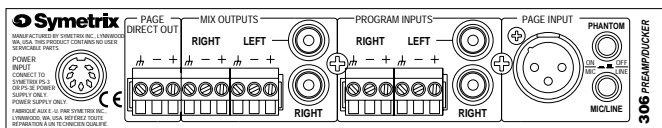
Input	1/4" TRS jacks
Output	1/4" TRS jacks
Power In	7 pin DIN

### 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, 10 watts 230V nominal, 165 to 255V AC, 50Hz, 10 watts
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## 306 Preamp/Ducker

<b>Input/Output</b>	
Maximum Input Level	+20dBu Balanced, +20dBu Unbalanced
Program Input Impedance	>20k Ohms Balanced, >10k Ohms Unbalanced
Input Common Mode Rejection	>40dB, mic and line inputs
Microphone Phantom Power	+15V
Maximum Output Level	+26dBu Balanced (20k Ohm load) +22dBm Balanced (600 Ohm load)
Output Impedance	400 Ohms Balanced, 200 Ohms Unbalanced
<b>Performance Data</b>	
Page Frequency Response	50Hz to 15kHz, +0, -1dB
Program Frequency Response	20Hz to 20kHz, +0, -1dB
Page Path THD+Noise	<.02% (Mic input to direct page output, 150 Ohm source)
Program Path THD+Noise	<.025% (+4dBu in, +4dBu out, 0dB ducking)
Output Gain	+/-20dB

### Connections

Page Input	XLR
Program Inputs	RCA jacks, Euroblock
Mix Outputs	RCA jacks, Euroblock
Page Direct Output	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, 10 watts 230V nominal, 165 to 255V AC, 50Hz, 10 watts
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