

The 301 & 601 are single rack space, three input & six input mic/line mixers. Each input channel uses a differentially balanced, discrete transistor mic/line preamplifier for low noise and low distortion performance. Inputs are provided to accept signals from microphones and/or line level devices. Special features, including limiters and remote level control, make the 301 & 601 extremely versatile. 301 & 601 mixers are dependable, easy to install, simple to operate, and are covered by Biamp Systems' five-year warranty.

### FEATURES

- three electronic balanced mic/line input channels (301)
- six electronic balanced mic/line input channels (601)
- 30dB rear panel Pad switch on each input channel
- 40dB screwdriver-adjust Trim on each input channel
- +10dB Peak LED indicator on each input channel
- rotary level control on each input channel
- optional input/output isolation transformers (user installed)
- auto-muting of one channel for "talk-over" applications
- +24 volt Phantom Power assign switch on each input
- electronic balanced main output with rotary level control
- remote control of main level from up to 2000 feet away
- main patch insert point for external processing devices
- main stacking input accepts signals from other mixers
- screwdriver-adjust tone controls & limiter on main output
- -20dB Signal Present LED indicator for main output
- all input/output/control on plug-in barrier strip connectors
- CE marked and UL / C-UL listed power source
- covered by Biamp Systems' five-year warranty

### ARCHITECTS & ENGINEERS SPECIFICATION

The mixer shall have either three or six differentially balanced input channels utilizing discrete transistor preamplifier circuitry. Inputs shall accept microphone or line level signals. Each input shall include a screwdriver adjustable trim control with 40dB of range, a 30dB pad switch, a +10dB (peak) indicator, and a rotary level control. Automatic muting of the last input, via signal present in any or all of the other inputs, shall be assignable by rear panel DIP switches. Phantom Power shall be assignable to the individual inputs, via rear panel switches. Phantom Power shall be +24 Volts, switch selectable on each input.

The master section shall include an electronically balanced main output, a rotary level control, a signal present indicator, screwdriver adjustable treble and bass equalization, a limiter with screwdriver adjustable threshold & indicator, remote control of level from up to 2000' away, an electronically balanced stacking input, and a patch insert point for external signal processing. Input transformers shall be a user-installed option. All signal connections shall be on plug-in barrier strip and the mixer shall be rack mountable in a single rack space.

The mixer shall have a Frequency Response of +0/-1dB from 20Hz to 20kHz, THD + Noise of less than .02%, and Equivalent Input Noise of less than -125dBu. Power Consumption shall be less than 15 Watts. Dimensions shall be 1.75" (H) x 19" (W) x 7" (D). Weight shall be 6 lbs. Warranty coverage shall be five years. The unit shall be CE marked, with a UL / C-UL listed power source, and shall incorporate AES recommended grounding practices.

The three input mixer shall be a BIAMP 301 Mic/Line Mixer.

The six input mixer shall be a BIAMP 601 Mic/Line Mixer.

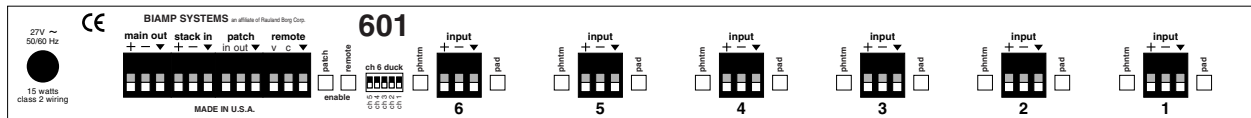
## 301 & 601 SPECIFICATIONS

<b>Frequency Response</b> (20Hz-20kHz @ +4dBu):	+0/-1dB	<b>Output Impedance:</b>	
<b>THD+Noise</b> (20Hz-20kHz @ +4dBu):	< 0.02%	main output (balanced)	200 ohms
<b>Equivalent Input Noise</b> (20Hz-20kHz, 150Ω term.):	-125dBu	main patch (unbalanced)	100 ohms
<b>Output Noise</b> (20Hz-20kHz):		<b>Maximum Output:</b>	
master level control down	< -86dB	main patch	+18dBu
master level & one channel at nominal	< -78dB	main output	+24dBu
<b>Maximum Gain:</b>		<b>Input Impedance:</b>	
mic input to main output	78dB	mic/line inputs (balanced)	2.7k ohms
main patch to main output	16dB	main patch (unbalanced)	> 7k ohms
main stack to main output	10dB	main stack (balanced)	30k ohms
<b>Crosstalk</b> (channel-to-channel @ 1kHz):	-60dB	<b>Maximum Input:</b>	
<b>Output Tone Controls:</b>		mic/line input	+30dBu
Treble	±10dB @ 10kHz	main patch	+30dBu
Bass	±10dB @ 100Hz	main stack	+24dBu
<b>Output Limiter:</b>		<b>Power Requirements:</b>	115/230VAC 50/60Hz
attack time	1~2 mS (program dependent)	<b>Power Consumption:</b>	< 15 watts
release time	100~500 mS (program dependent)	<b>Dimensions:</b>	
threshold range	-4dBu ~ +24dBu	height (1 rack space)	1.75 inches (44mm)
<b>Remote Control Attenuation</b> (0~+10VDC):	-80dB ~ 0dB	width	19 inches (483mm)
<b>Input Trim Control Range:</b>	50dB	depth	7 inches (178mm)
<b>Input Pad Switch Attenuation:</b>	30dB	<b>Weight:</b>	6 lbs. (2.72kg)

## 301 REAR PANEL DIAGRAM



## 601 REAR PANEL DIAGRAM



## 601 BLOCK DIAGRAM

