



The **801** is a single rack-space mixer, with eight mic/line inputs and one auxiliary line input. Each mic/line channel uses a differentially balanced, discrete transistor preamplifier for low noise and low distortion performance. Special features, including a limiter and remote level control, make the **801** extremely versatile. The **801** mixer is dependable, easy to install, simple to operate, and carries a five-year warranty.

FEATURES

- 8 differential balanced mic/line inputs & 1 aux line input
- discrete transistor mic/line preamps for low noise/distortion
- optional mic/line input isolation transformers (user installed)
- +24 volt phantom power selectable on each mic/line input
- optional +48 volt phantom power supply (user installed)
- aux input switch selectable for balanced or stereo summing
- aux input 'auto-ducking' switch selectable on channels 1~8
- front panel trim and rear panel pad switch on each channel
- +10dB 'peak' LED indicator on each channel for easy set-up
- high-pass 'rumble' filter switch selectable on each channel
- mic/line & aux inputs on plug-in barrier strip connectors
- 1/4" patch insert jack on each channel and at main output
- balanced main output on plug-in barrier strip connector
- main output limiter with threshold control and LED indicator
- main out Bass & Treble control with rear panel bypass switch
- -20dB signal present & power LED indicators at main output
- channel 1 / priority override via rear panel switch terminals
- optional remote control of main out via external level control
- optional main output isolation transformer (user installed)
- stack in & slave switch for adding inputs by linking units
- DC Out jack for powering certain other BIAMP products
- incorporates **AES** recommended grounding practices
- **CE** marked and **UL / C-UL** listed power source
- covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The mixer shall provide 8 differential balanced mic/line inputs and one auxiliary line input, all on plug-in barrier-strip connectors. The mic/line pre-amplifiers shall be of discrete transistor design to insure low noise and low distortion performance. Mic/line input isolation transformers shall be available as a user installed option. Phantom Power shall be selectable on each mic/line input via rear panel DIP switches, with +24 Volts as standard and +48 Volts as a user installed option. The auxiliary line input shall be selectable for either balanced mono input or unbalanced stereo summing input, via rear panel DIP switch. Rear panel DIP switches shall allow signal present in any or all of the eight mic/line inputs to trigger 15dB of automatic attenuation at the auxiliary line input. Front panel screw-driver adjustable trim controls and rear panel pad switches shall be provided on each input channel. Each input channel shall also include a rotary level control, an LED peak indicator, a high-pass filter switch, and a patch insert/direct output jack on a TRS 1/4" phone connector.

The mixer main output shall be electronically balanced on plug-in barrier-strip connectors. An output isolation transformer shall be available as a user installed option. The output section shall include Treble & Bass tone controls with a rear panel bypass switch, a limiter with threshold control & LED indicator, a signal present LED indicator, a rotary level control, and connection for an optional external remote level control. A stack input & slave switch shall allow multiple mixers to be linked, for increased system input capability. Rear panel control terminals & channel assignment switches shall allow priority override functions. The mixer shall provide a DC output jack for powering certain other BIAMP products.

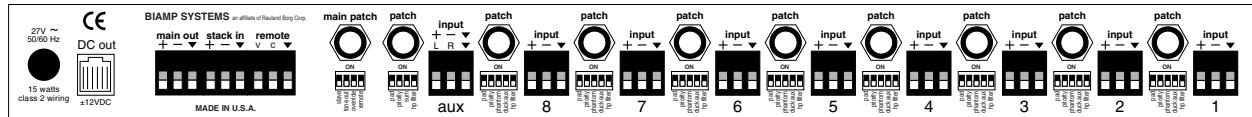
Frequency Response shall be +0/-1dB from 20Hz to 20kHz at +4dBu. THD + Noise shall be less than .08% from 20Hz to 20kHz at +4dBu. EIN shall be less than -123dBu and output Hum & Noise shall be less than -78dBu from 20Hz to 20kHz at nominal level. Power Consumption shall be less than 15 Watts. Dimensions shall be 1.75 inches (1 rack space) high, 19 inches wide, and 7 inches deep. Weight shall be 6 lbs. The mixer shall be CE marked with a UL / C-UL listed power source, and shall incorporate AES recommended grounding practices. Warranty shall be 5 years.

The mixer shall be a BIAMP 801.

801 SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-1dB	Output Impedance:	
THD+Noise (20Hz~20kHz @ +4dBu):	< 0.08%	main output (balanced)	200 ohms
Equivalent Input Noise (20Hz~20kHz, 150Ω term.):	-123dBu	channel (unbalanced)	100 ohms
Output Noise (20Hz~20kHz):		main patch (unbalanced)	100 ohms
master level control down	< -86dB	Maximum Output:	
master level & one channel at nominal	< -78dB	channel & main patch	+18dBu
Maximum Gain:		main output	+24dBu
mic input to main output	85dB	Input Impedance:	
channel patch to main output	25dB	mic/line inputs (balanced)	5.1k ohms
main patch to main output	16dB	channel patch (unbalanced)	> 7k ohms
main stack to main output	9dB	main output (unbalanced)	> 7k ohms
Crosstalk (channel-to-channel @ 1kHz):	-60dB	main stack (balanced)	40k ohms
Output Tone Controls:		Maximum Input:	
Treble	±10dB @ 10kHz	mic/line input	+20dBu
Bass	±10dB @ 100Hz	channel & main patch	+30dBu
Channel High-Pass Filters:		main stack	+24dBu
frequency	-3dB @ 170Hz	Power Consumption (115/230VAC 50/60Hz):	< 15 watts
slope	6dB/octave	Dimensions:	
Output Limiter:		height (1 rack space)	1.75 inches (44mm)
atack time	1~2 mS (program dependent)	width	19 inches (483mm)
release time	100~500 mS (program dependent)	depth	7 inches (178mm)
threshold range	-4dBu ~ +24dBu	Weight:	6 lbs. (2.72kg)

801 REAR PANEL DIAGRAM



801 BLOCK DIAGRAM

