



autoTWO Automatic Mixer



The autoTWO Automatic Mixer is affordable, extremely versatile, and easy to use. Features include NOM attenuation, adaptive threshold sensing, speech-frequency filtering, manual priority override, selectable channel-off attenuation, and selectable last mic hold. The autoTWO is compatible with all other BIAMP products, providing the ultimate expandable system. The autoTWO is covered by BIAMP's five-year warranty.

FEATURES

- eight balanced mic/line inputs on plug-in barrier connectors
- trim, pad, level, & active/peak indicator per channel
- channel 1 manual 'override' via external contact-closure
- channel 8 'mix-minus' assign & 'ducking' via channels 1~7
- balanced main & aux outputs on plug-in barrier connectors
- selectable last mic on, hpf, automix, & 48V phantom power
- selectable automix channel-off attenuation (-12dB or -40dB)
- pre/post automix assignment to main, aux, & direct outputs
- external switches select options (no internal jumpers)
- logic outputs from channels for switching of external circuits
- Adaptive Threshold Sensing minimizes false gate triggering
- Speech-Frequency Filter minimizes false gating due to noise
- 6dB of hysteresis reduces gate 'flutter' when near threshold
- 'stacking' of two units to expand system input capability
- CE marked and UL / C-UL listed power source
- RoHS compliance and AES grounding practices
- covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The automatic mixer shall provide eight balanced mic/line input channels. Each input channel shall include trim, pad, & level controls, as well as a combined active/peak indicator and an unbalanced direct out. DIP switches on each channel shall allow selection of gating, 48V phantom power, & direct out pre/post gate. Channels 1~7 shall be individually assignable to trigger signal present ducking of channel 8 by 12dB. Channel 8 assignment to an auxiliary output shall be defeatable, to provide a mix-minus capability. Each input channel shall provide a discrete transistor, differentially balanced mic/line preamp for low-noise & low distortion, with connections via plug-in barrier strip.

Balanced main & aux outputs, as well as a balanced stacking input, shall be provided on plug-in barrier strips. The main output shall include a selectable high-pass filter. The aux output shall be assignable to receive pre/post gate signal from the channels. The stacking input, along with a master/slave switch & an expansion jack, shall allow linking of two units to increase the number of mixer inputs. The expansion jack shall include a priority terminal for muting of all inputs, except channel 1, via an external contact-closure.

The main output shall provide NOM attenuation, with automixing functions to include Adaptive Threshold Sensing, Speech-Frequency Filtering, & 6dB of hysteresis, for increased stability of gating operations. Other automixing functions shall include selectable last mic hold & -12dB/-40dB channel-off attenuation. Eight logic outputs shall be provided on a 9-pin Sub-D connector, for control of external circuits based upon active status of the channels.

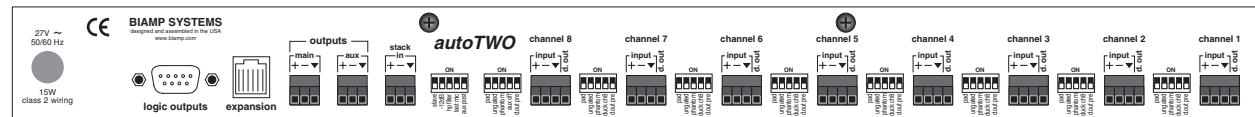
Frequency response shall be +0/-0.5dB (20Hz~20kHz @ +4dBu) THD+N shall be less than 0.05% (20Hz~20kHz @ +4dBu) Output Noise shall be less than -75dBu (20Hz~20kHz, main & channel @ nominal) Power consumption shall be less than 15 watts. Dimensions shall be 1.75 inches (1 rack space) high, 19 inches wide, and 11 inches deep. Weight shall be 10 lbs. Warranty coverage shall be 5 years. The unit shall be CE marked, include a UL / C-UL listed power source, and shall incorporate AES48-2005 Grounding & EMC practices. The mixer shall be compliant with EU Directive 2002/95/EC, the RoHS directive.

The automatic mixer shall be a BIAMP autoTWO.

autoTWO SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-0.5dB	High-Pass Filter:	6dB/octave @ 170Hz
THD+N (20Hz~20kHz @ +4dBu):	< 0.03%	Automixing:	
Output Noise (20Hz~20kHz, main & 1 channel @ nominal):	< -75dBu	gate attack time	4ms
Maximum Gain:		release time (adjustable)	150ms to 4 seconds
mic/line inputs to main & aux outputs	86dB	threshold (adjustable)	-32dBu to -8dBu
stack in to main output	10dB	channel-off attenuation (selectable)	-12dB or -40dB
Crosstalk (channel-to-channel @ 1kHz):	< -65dB	NOM attenuation (doubling of active inputs)	-3dB
Output Impedance:		Feedback/Noise Improvement (8 channels)	9dB
main & aux outputs (balanced)	200 ohms	Power Consumption (115/230VAC 50/60Hz):	< 15W
Input Impedance:		Dimensions:	
mic/line inputs (balanced)	4.7k ohms	height	1.75" (44mm)
stack in (balanced)	28k ohms	width	19" (483mm)
Maximum Output:		depth	11" (279mm)
main & aux outputs	+24dBu	Weight:	< 10 lbs. (4.55kg)
channel direct outs	+18dBu	Compliance:	AES48-2005 Grounding & EMC practices
Maximum Input:			EU Directive 2002/95/EC, RoHS directive
mic/line inputs	+18dBu		CE marked
stack in	+24dBu		UL listed power source

autoTWO REAR PANEL DIAGRAM



autoTWO BLOCK DIAGRAM

