

**ARCHITECTS SPECIFICATIONS**

**LX-308B**

The unit shall be an eight channel stereo line-level mixer in a one rack space metal chassis. Each channel shall have a pair of balanced 1/4" input jacks with level and pan controls on the front panel. Channels 1 and 2 shall be switchable to accommodate either microphone or line level sources. An input on/off switch with a LED status indicator shall be provided for independent channel muting.

The unit shall have separate Left and Right clip indicators to monitor all internal amplifiers for any possible overload conditions. There shall be Left and Right outputs on 1/4" TRS phone jacks which can be used as balanced or unbalanced. In addition, there shall also be an independent Mono summed output on a separate 1/4' TRS jack. Left/Right level control, variable panning, and a master stereo mute switch must be provided on the front panel, as well as an overall adjustment for the independent Mono summed output.

There shall be a stereo headphone jack with separate level control located on the front panel of the unit. Pre-Master sub inputs and outputs for linking with other mixers must be located on the rear panel. The unit shall have the ability to operate as an eight input stereo or a sixteen input mono mixer by patching cables

accordingly.

The mixer shall provide an unity gain signal path when all level controls are set at twelve o'clock.

Distortion shall be less than 0.02 % Total Harmonic Distortion at +20 dBu (20Hz to 20kHz) and less than 0.01% Intermodulation Distortion (SMPTE) at +100 dBu (20Hz to 20kHz.) Hum and Noise shall be less than -90 dBu residual output noise when all levels are set at minimum, and less than -87 dBu at nominal (unity) gain. Frequency Response shall be  $\pm 0.2$  dB, 20 Hz-20 kHz. Voltage gain of the mixer shall be  $25\text{dB} \pm 1$  dB when measured from channel input to master output when levels are set at maximum. Voltage gain when channel one or two are in mic position shall measure  $56\text{dB} \pm 1$  dB at the master outputs. Crosstalk of the unit shall be less than -80 dB when measuring adjacent inputs or input to output at 1kHz. Dimensions of the model shall be 19" wide x 1.75" high x 7.6" deep. The shipping weight shall be nine pounds. The mixer must be made in America and covered under a full Five Year warranty. The mixer shall be the model LX-308B, manufactured by Ashly Audio, Inc. of Webster, New York. No other unit shall be acceptable unless data submitted from an independent test laboratory verifies that the above specifications are fully met or exceeded.

- Balanced Inputs and Outputs
- Eight Stereo or Sixteen Mono Inputs
- Individual Left, Right and Mono Outputs
- Channel 1 & 2 Selectable Mic or Line Inputs
- Unity Gain Signal Path Throughout When all Level Controls are Set at Twelve O' Clock
- L & R Level Meters w/Clip Indicators Monitor all Internal Amplifiers
- Pre-Master Sub Inputs & Outputs for Linking Multiple Mixers
- Individual Channel Mute Switches
- Stereo Output Mute Switch
- Stereo Headphone Output with Level Control
- U.L. Listed

## General Specifications LX-308B

THD:	< .02 % at +20 dBu, 20 Hz-20 KHz
IMD (SMPTE):	< .01 % at +20 dBu
HUM & NOISE:	(20 Hz-20 KHz noise bandwidth): < -100 dBu residual output noise, all levels at minimum < -87 dBu MASTER OUT, MASTER LEVEL and one INPUT LEVEL at nominal (unity gain)
FREQUENCY RESPONSE:	± 0.2 dB 20 Hz-20 KHz
VOLTAGE GAIN:	0.0 ± 1 dB –CH. INPUTS or SUB INPUTS to MASTER OUTPUTS, levels at nominal 25 ± 1 dB –CH. INPUT to MASTER OUTPUTS, levels at maximum 56 ± 1 dB –CH. 1 or 2 INPUT in MIC position to MASTER OUTPUTS 18 ± 1 dB –SUB INPUTS to MASTER OUTPUTS, MASTER LEVEL at maximum
CROSSTALK:	< -80 dB adjacent inputs or input to output at 1 KHz; < -60 dB adjacent inputs or input to output at 20 KHz
VU METERS:	Two 5-segment LED meters. 0 VU = +4 dBu
PEAK INDICATORS:	Left and right peak CLIP indicators illuminate when any internal signal amplifier is 3 dB below clipping
POWER REQUIREMENTS:	120 VAC nominal, 93 VAC minimum, 50-60 Hz, 12 watts. (240 VAC available)
DIMENSIONS:	19" L x 1.75" H x 6.6" D
SHIPPING WEIGHT:	8 lbs. maximum

## Input Specifications:

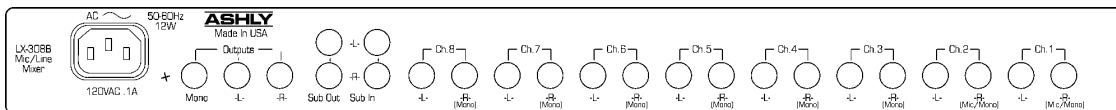
INPUT	BALANCED/ UNBALANCED	LOAD IMPEDANCE	FOR USE WITH NOMINAL	MAX. INPUT LEVEL BEFORE CLIP	CONNECTOR
LINE INPUTS (1-2) (3-8)	Balanced	≥ 20 K ohm	600 ohm	+21dBu	Left & Right 1/4" Phone Jacks
	Balanced	≥ 20 K ohm	600 ohm	+21dBu	
MIC INPUTS (1-2)	Balanced	≥ 20 K ohm	600 ohm	-10dBu	Left & Right 1/4" Phone Jacks
SUB INPUTS (L,R)	Unbalanced	≥ 10 K ohm	600 ohm	+22dBu	Left & Right 1/4" Phone Jacks

## Output Specifications:

INPUT	BALANCED/ UNBALANCED	LOAD IMPEDANCE	FOR USE WITH NOMINAL	OUTPUT LEVEL		CONNECTOR
				NOMINAL	MAX BEFORE CLIP	
MASTER OUT (L,R) MONO OUT	Quasi-Balanced	≤ 200 ohm	10K ohm lines	+4dBu	+22dBu	1/4" Phone Jacks
SUB OUT (L, R)	Unbalanced,	≤ 200 ohm	10K ohm lines	-4dBu	+22dBu	1/4" Phone Jacks

Notes: 0 dBu = 0.775 Vrms  
Quasi-balanced output has balanced output impedance with single ended signal

## Rear Panel LX-308B



## Applications:

Broadcast Studios, Mobile Broadcast Units, Satellite Downlink Distribution, Boardroom Sound Systems, Multimedia Sound Distribution, Concert Sound, Dance/Night Clubs, Bowling Alleys, Churches, Auditoriums, Lecture Halls, Sports Stadiums, Outdoor Festivals.

**Ashly manufactures a complete and comprehensive line of Graphic and Parametric Equalizers,  
Electronic Crossovers, Power Amplifiers, Compressor-Limiters, Mixers, and  
Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.**

Ashly Audio Inc., 847 Holt Road, Webster, NY 14580-9103, Toll Free (800) 828-6308, Telephone (585) 872-0010, FAX (585) 872-0739  
Internet: <http://www.ashly.com>, email: [info@ashly.com](mailto:info@ashly.com)