



MX-508 8-CHANNEL, MIC/LINE MIXER

The **MX-508** is an 8-input stereo rackmountable mixer. Designed for many applications, it has an extensive mix of features for a small unit combined with excellent sound and quiet performance.

The MX-508 features 84dB of gain to ensure full output with low-level or distant microphones. Several years of research went into the microphone preamp and the result is a discrete circuit with better than -129 dBu Equivalent Input Noise (EIN) and very low distortion. Low and High Shelving EQ combined with mid-band peaking EQ tunable from 140Hz and 8 kHz make for a very flexible tone control. Phantom power of +48 VDC is provided for condenser microphones via a switch on the front panel. Each input has its own 20dB pad switch. Variable gain trim and Mic/Line selection switches are also found on each input channel. Rounding out the list of standard input features are a Peak Clip indicator, two Aux Sends (factory-set with one pre-EQ and level and the other post-EQ and level, these sends may be modified by a qualified technician), in/out channel patching, level and pan controls, and both balanced XLR microphone and TRS Line inputs.

Transformer-balanced Left and Right XLR outputs are standard, as are balanced Left and Right TRS 1/4" outs. There is also an independent Mono output with its own front panel level control, as well as a selectable Headphone output with Level Control.

There are Pre-Master Sub In/Out patch points for linking other mixers. Peak Clip indicators are also provided for the Outputs, and the 10-Segment LED Meters may be selected to monitor either Program Left and Right or Aux 1 and 2. Maximum output level is +24dB into 600 Ohms.

The MX-508 also has two Master Aux Sends and two panable Master Aux Returns (one stereo and the other mono). A 3.5mm stereo line in jack on the front panel offers a convenient input alternative for MP3 players and smartphones with level control to the Mains or to Aux 1. Stereo RCA Outputs are also provided.

The MX-508 combines traditional Ashly quality with internally modular construction in a package offering outstanding value and reliability.

MX-508 Features:

- 3-Band, channel EQ w/ sweepable mid freq center
- Convenient, 3.5mm stereo line in jack on front panel for MP3 players and smartphones
- 2 AUX sends per channel
- Insert jacks on each channel
- Independent mono output with level control
- Transformer isolated +24dBm 600 Ohm balanced XLR-stereo program outputs
- Safety/Compliance: TÜVus, CE, FCC, RoHS



Specifications Note: $0dBu = 0.775 VRMS$

Distortion	
THD @ +4dBu Output, 20Hz–20kHz	<0.05%
THD @ +20dBu Output, 30Hz–10kHz	<0.05%
IMD (SMPTE) @ +20dBu Output	<0.05%
Hum and Noise (20Hz–20kHz @ Max Preamp Gain)	
Equivalent Input Hum and Noise	<-128dBu
Residual Output Noise, TRS (All Levels @ Min)	<-100dBu
Residual Output Noise, XLR (All Levels @ Min)	<-90dBu
Master Level @ nominal (All Levels @ Min)	<-80dBu
Master Level @ nominal (1 Channel Level @ Min)	<-68dBu
Aux 1/2 Out, Aux Master @ nominal (All chan Aux @ Min)	<-88dBu
Aux 1/2 Out, Aux Master and 1 Chan Aux @ nominal	<-68dBu
Frequency Response	
20Hz–20kHz	+0.5/-1.0dB
50Hz–10kHz	+0/-0.5dB
Equalization	
Low (@ 70Hz, shelving)	±18dB
Mid (peaking, 140Hz–8kHz)	±13dB
High (@ 8kHz, shelving)	±12dB
Crosstalk	
Adjacent Inputs, (20Hz–20kHz)	<-65dB
Mic Input to Master Output (1kHz)	<-65dB
Mic Input to Master Output (20kHz)	<-55dB
Metering	
VU Meters	(Selectable to L/R or Aux Outputs) -21VU to +6VU, 0VU = +4dBu
Peak Indicators	Peak Clip indicator on each input channel and L/R outputs, illuminates 3dB below clipping
Weights, Dimensions & Power	
Dimensions	19"W x 5.25"H x 9.4"D (483mm x 133mm x 239mm)
Unit Weight	14.7lbs (6.68kg)
Shipping Weight	19lbs (9kg)
Power Req.	100–240VAC, 50–60Hz, 30W

Maximum Gain Voltage ($\pm 2dB$)

Master	
Mic Input to Master Output (600 Ohm load)	84dB
Line Input to Mono Output (600 Ohm load)	30dB
AUX Sends	
Mic Input to Aux Master 1 Output (Pre-chan level)	80dB
Mic Input to Aux Master 2 Output (Post-chan level)	95dB
SUB Input to Master Output	12dB
AUX Returns	
1 or 2 to Master Output	30dB
Stereo Line In to Master Output	27dB

Unless otherwise stated, specification conditions are: 150 Ohm source, Input set at "-40", all other controls set at nominal, XLR output into 600 Ohm or greater.
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MX-508 ARCHITECT & ENGINEERING SPECS

The unit shall be an eight input stereo mixer having separate transformer-isolated balanced outputs for both left and right channels. There shall be an electronically balanced mono summed output with separate front panel level control. Each input channel shall have level and stereo-balance controls on one concentric pot. Two aux sends on each channel must be provided with one internally selected pre-fader /EQ and the other post fader/EQ. The Pre/Post determination of the Aux sends shall be configurable via circuit board jumper connections. Each input channel shall have three-band equalization control with adjustable mid-band frequency sweep. The equalization shall consist of high and low shelving points being fixed at 130Hz and 7kHz, and the mid-band peaking EQ control must be adjustable between 140Hz and 8kHz. Each input channel shall have 40dB of available gain trim and a switch for mic/line selection on the front panel, as well as a 20dB mic input pad on the rear panel. Each input channel shall have in/out insert points on separate 1/4" phone connections, 1/4" phone connectors for balanced line input sources, and XLR electronically-balanced connectors for microphones. Phantom power of +48VDC on each input must be available via a front panel switch. There shall be two Master Aux Sends provided and two panable Master Aux Returns (one stereo and one mono). There shall be a front panel 3.5mm stereo line input jack, and an additional back panel stereo line input on RCA jacks, both sharing a single level control to the Mains or Aux 1. Separate stereo RCA line outputs must also be provided. There shall be Pre-Master Sub In/Out patch points for left and right and Aux Sub outputs on 1/4" phone jacks for linking other mixers. A selectable Headphone output with level control to monitor either Left and Right or Aux 1 and 2 must be provided on the front panel. Overall gain available from Mic Input to Master Output shall be 84dB, and the Output level shall be +24dBm into 600 Ohms. The mixer unit shall be no higher than three rack spaces and must be fully covered under a five year warranty. The mixer must be manufactured in America, with a shipping weight of 19 pounds. The mixer shall be the model MX-508, manufactured by Ashly Audio, Inc. No other unit shall be acceptable unless data submitted from an independent test laboratory verifies that the above size/performance specifications are met.

The mixer shall be an Ashly model **MX-508**

