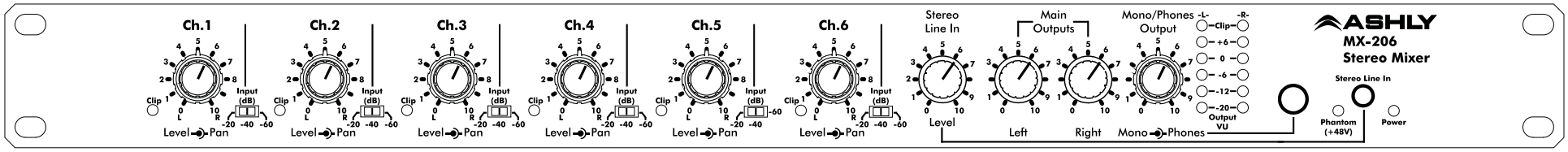


ARCHITECTS SPECIFICATIONS

MX-206

The unit shall be a six input stereo microphone mixer with TRS stereo outputs as well as a transformer-isolated +24 dBm , 600 ohm balanced XLR mono output. There shall be +48 volts of phantom power available for condenser microphones, with gradual power-up and down of this phantom power to eliminate any transient spikes. Total voltage gain measured from each microphone input to the Main Outputs shall be a minimum of 84dB. Each of the six microphone channels shall have 40dB of adjustable gain via a front panel 3 position slide switch. Each input shall also have a 20dB pad switch on the rear of the unit, making a total of 60dB of possible gain/attenuation. Each channel shall have a continuously variable pan control. There shall be a peak Clip LED indicator on each input channel which shall illuminate when the input is 3dB below true clipping, and another Clip indicator on the output of the mixer which shall illuminate when the output is within 3dB of actual clipping. Two 6-segment LED meters must be provided to monitor the mixer output, calibrated for 0 VU to equal +4 dbu. There shall be a separate stereo aux input with front panel level control, having rear panel connection via RCA phono jacks. There shall also be a separate stereo aux output available on the rear panel with access via RCA phono jacks. Distortion shall be less than 0.02 % Total Harmonic Distortion at +20dBu (20Hz to 20kHz) and less than 0.05% Intermodulation Distortion (SMPTE) at +20 dBu (input switch at -40dB). Hum and Noise shall be less than -100dBu residual output noise when all levels are set at minimum. Frequency Response shall be +0/-.5dB, 20 Hz-20 kHz. Crosstalk of the unit shall be less than -60dB when measuring adjacent inputs or input to output at 20kHz. Dimensions of the model shall be 19” wide x 1.75” high x 6.6” deep. The mixer shall be made in America, with a 10 pound shipping weight.

The mixer shall be the model MX-206, 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 met.

Features

- High Gain (84dB Channel Input to Program Output) Ensures Full Output with Low Level or Distant Mics
- Transformer Isolated +24dBm 600 ohm Balanced XLR Mono Output
- Pan Control on Each Channel
- +48V Phantom Power for Condenser Mics
- Auxillary Tape/CD Inputs and Outputs
- Front Panel 3.5mm Stereo Line In Jack
- Stereo Headphone Jack with Level Control
- Safety/Compliance: cTUVus/CE, RoHS, FCC

Specifications MX-206:
(unless otherwise stated, specification conditions are 150Ω source, all levels nominal, outputs into 2.7KΩ or greater)

Total Harmonic Distortion:
< 0.05 % @ +20 dBu, 20 Hz-20 KHz; input switch at -40dB

IMD (SMPTE IM distortion):
< 0.02 % @ +20 dBu, input switch at -40dB

HUM & NOISE: (20 Hz-20 KHz noise bandwidth, input switch at -60dB)
< -127 dBu equivalent input hum and noise
< -100 dBu residual output noise TRS all level controls minimum
< -90 dBu residual output noise XLR all level controls minimum
< -84 dBu Main Out, Main Level at nominal, all Ch. Level controls at min
< -80 dBu Main Out; Main Level and one Ch. Level at nominal

FREQUENCY RESPONSE:
20 Hz-20 KHz, +0/-0.5 dB

MAXIMUM VOLTAGE GAIN:
84 ± 2 dB: MIC INPUT to MAIN OUTPUT
34 ± 2 dB: AUX INPUT to MAIN OUTPUT

CROSSTALK:
< -60 dB @ 20KHz, between any inputs or outputs

VU METER:
Two 6-segment LED meters, 0 VU = +4 dBu

PEAK INDICATORS:
Peak CLIP indicator on each input channel and on outputs, illuminating 3 dB below clipping

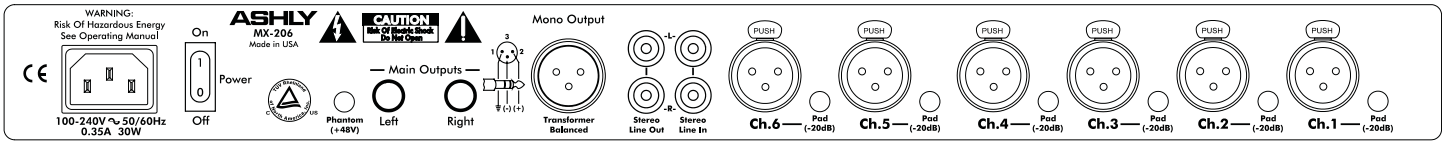
PHANTOM POWER:
+48 VDC applied to all MIC INPUTS, switchable on back panel
80mA maximum total current draw
14mA maximum single current draw
Gradual power-up and down to eliminate "pops."

POWER REQUIREMENTS:
100 - 240VAC, 50-60 Hz, 30 watts.

DIMENSIONS:
19"L x 1.75"H x 8.0"D

SHIPPING WEIGHT:
13 lbs. maximum

MX-206 Rear Panel



Applications:

Live Sound Reinforcement, Conference Rooms, Lecture Halls, Houses of Worship, Broadcast, Recording, and Film/Video Production.

Ashly manufactures a complete and comprehensive line of Analog and Digital Signal Processors, Power Amplifiers, Mixers, and Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.

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