

CR-1604

16x2 RACK MOUNT MIC/LINE MIXER



1. GENERAL CONFIGURATION. The mixing console shall have a 2-part main frame which accommodates 10 Unbalanced and 6 Balanced Line Inputs, 6 Balanced Microphone Inputs, 1 Balanced/Unbalanced Main Left Output, 1 Balanced/Unbalanced Main Right Output, 1 Balanced/Unbalanced Main Mono Output, 1 Monitor Output, 6 AUX Outputs, 2 ALT Outputs, 2 Bus Inserts, 4 Stereo AUX Returns, 8 Channel Access Jacks and 1 Stereo Headphone Output. The main frame shall be capable of mounting on a table or in a standard 19-inch rack mount and shall be entirely self-contained.

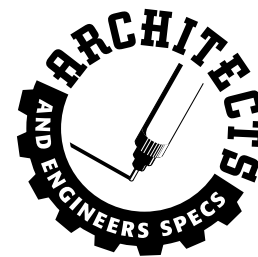
2. METERING. The main frame shall include two 10 -LED meters for monitoring Main L/R Outputs or channel level during solo, one — each Overload Clipping LED's for each of 16 channels, Solo On LED and Power LED.

3. MIXER INPUTS. The main frame shall include on its rear panel, electronically balanced mic inputs using female XLR-3-type connectors to accept nominal levels of from -48dBu to +14dBu. The main frame shall also

have 16 line inputs consisting of standard 1/4" phone jacks which shall accept nominal levels of from -40dBu to +22dBu on Channels 1 through 6 and -25dBu to +22dBu on Channels 7 through 16. Each of 16 channels shall have a rotary Sensitivity Control adjustable from +4dB to -40dB (-4dB to -48dB @ XLR inputs) on Channels 1 through 6 and +4dB to -25dB on Channels 7 through 16. The main frame shall have 2 Stereo Bus Inserts, 4 Stereo AUX Returns and 8 tip-out/ring-in Channel Access Inserts. There shall be a phantom power supply with separate switch to provide +43/48V DC to all mic input connectors for remote powering of condenser microphones.

4. MIXER OUTPUTS. The mixer outputs shall be 1/4" phone jack; there shall be 1 Left and 1 Right Main Outputs, 1 Mono Main Output, 1 Monitor Output, 6 AUX Outputs, Alternate Outputs on Buses 3 and 4, and 1 Stereo Headphone Output. Maximum Main Output level shall be +28dBu balanced (+22dBu unbalanced); all other Outputs shall be capable of +22dBu maximum output level.

5. PHYSICAL CONFIGURATION. The main frame shall be grey-black, consisting of two parts: a Main Mixing Board with steel chassis, and an Input/Output Pod with



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aluminum/steel chassis that shall be mechanically connected by metal screws and electrically connected by ribbon cables. The Pod shall be designed in such a way that it may be attached in one of two ways: 1) With input/outputs to the top of the mixing console (desktop mode) or 2) with input/outputs to the back of the mixing console (rackmount mode).

Additionally, the mixer shall accommodate the (optional) RotoPod Bracket Set, which shall allow the Input/Output Pod to be rotated in such a way that the input/outputs are on the same plane with the Main Mixing Board controls.

The mixer's dimensions shall be 16.1" tall by 17.34" wide (including screw heads) by 4.1" deep with the Input/Output Pod rotated to top, or 15.8" tall by 17.34" wide by 4.8" deep with the Input/Output Pod rotated to back. The rack rails shall be adjustable to allow flush mounting, which shall add an extra 0.7" to respective depth measurements. The weight in either case shall be 18 pounds.

The Input/Output Pod shall include a female BNC connector for 12V AC powering and physical attachment of a gooseneck lamp, LittleLite PN #12G or 12G-HI.

The mixer shall exactly accommodate the XLR10 add-on mic preamplifier section via mechanical and electronic connections.

6. INPUT SECTION. Each mixer Input Section shall include the following features: 4 AUX send controls shall feed 7 separate outputs, a Monitor button shall change AUX 1 to either pre (monitor) or post EQ & fader; a Shift button shall change AUX 3 and 4 to AUX 5 and 6; 3 rotary equalization controls (± 15 dB LO shelving at 80Hz, ± 12 dB MID peaking at 2.5kHz, ± 15 dB HI shelving at 12kHz), L/R rotary Pan control, stereo in-place Solo switch, Mute/Alt switch, overload clipping LED, and dB-calibrated 45mm Channel Fader with center-detent Unity Gain position. The Solo switch shall maintain stereo perspective for all soloed channels and returns. The Mute switch shall cause muted channels to be unassigned from main left/right output and reassigned to Alt Outputs 3 & 4.

7. OUTPUT SECTION. The mixer Main Output Section shall have 4 Stereo AUX Returns (consisting of 4 rotary Level controls, L/R Balance controls and 4 pushbutton Mono switches), AUX Return Solo switch, ALT Preview switch, Main Output Mute switch, Solo to Main switch, Left/Right Master dB-calibrated 45mm Master Fader with center-detent Unity Gain position, 10-step

LED meter (calibrated -20 to $+8$, plus CLIP), Power LED, flashing Solo LED, Stereo Headphone Output Jack and 45mm Solo/Headphone Level Control. The ALT Preview switch shall allow listening to all muted channels via headphones. The Headphone Solo Level Control shall regulate the output level of signals appearing at the Headphone Output jack and Solo as it appears at the Main Outputs and Headphones.

8. SPECIFICATIONS. In addition to specifications previously cited, the mixer shall meet or exceed the following performance criteria: Frequency Response, 20Hz to 40kHz ± 1 dB; Distortion, less than 0.025%, 20-20kHz; Mic Preamp E.I.N. -129 dBm; Typical Main Output Noise, -90 dBu; Working S/N Ratio, 90dB (weighted 400Hz to 20kHz), -83 dB (20Hz to 20kHz ref: $+4$ dBu).

The mixer shall be a Mackie Designs CR-1604.



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