

Architects Specifications

DLM-821 Stereo Ducking Line Mixer

The unit shall be an eight channel stereo ducking line-level mixer in a one rack space metal chassis. Each channel shall have a pair of balanced euroblock input connectors with level and pan controls on the front panel. Channels 1-4 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 a stereo VCA-type ducker whereby a signal present on inputs one or two shall attenuate (duck) inputs three through eight. The ducker shall have a front panel enable/disable switch and internal selection of ducking the left and/or right output signals. Internally, there shall be the ability to select channel one priority override, channel two ducking disable and set the ducking depth to either -20dB or -90dB.

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 euroblock connectors which can be used as balanced or unbalanced. There shall also be an independent Mono summed output on a separate euroblock connector. The mono summed output shall be switchable between line and mic level output levels via a rear panel switch. Left/Right level control, variable panning, and a master stereo mute switch must be provided on the front panel, as well as an overall level adjustment and mic/line output level switch 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. 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 a unity gain signal path when all level controls are set at twelve o'clock.

Distortion shall be less than 0.05 % Total Harmonic Distortion at +20dBu (20Hz to 20kHz). Hum and Noise shall be less than -100dBu residual output noise when all levels are set at minimum, and less than -83 dBu for one input and the master output at nominal (unity) gain. Frequency Response shall be ± 0.2 dB, 20 Hz-20 kHz. Voltage gain of the mixer shall be 25dB ± 1 dB when measured from channel input to master output when levels are set at maximum. Voltage gain when channel one through four are in mic position shall measure 56dB ± 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 19.0" wide x 1.75" high x 7.3" deep. The shipping weight shall be ten pounds. The mixer must be made in America and covered under a full Five Year warranty. The mixer shall be the model DLM-821, 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
- Mono Output Switchable between Mic and Line Level
- Channel 1 - 4 Selectable Mic or Line Inputs
- Ducker (Ch 1. or Ch 2.) Ducks Outputs 3 - 8
- Channel One Priority Override
- L & R Level Meters w/Clip Indicators Monitor all Internal Amplifiers
- +18V Phantom Power on Mic Inputs
- Individual Channel Mute Switches
- Stereo Output Mute Switch
- Stereo Headphone Output with Level Control

General Specifications DLM-821

THD:	< .05 % at +20 dBu, 20 Hz-20 KHz
HUM & NOISE:	(20 Hz-20 KHz noise bandwidth): < -100 dBu residual output noise, all levels at minimum < -83 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
CROSSTALK:	< -80 dB adjacent inputs or input to output at 1 KHz; < -60 dB adjacent inputs or input to output at 20 KHz
DUCKER DEPTH:	Factory configured for -20dB, internally selectable for -90dB
DUCKER THRESHOLD:	-30dBu Line, -60dBu mic
DUCKER SELECTION:	Factory configured for ch. 1 & 2 to duck ch. 3-8. Internal ch.2 disable, left or right disable
DUCKER PRIORITY:	Ch. 1 priority enable where ch. 1 mutes all other inputs
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:	98 - 125 VAC , 50-60 Hz, 15 watts. (240 VAC available)
DIMENSIONS:	19" L x 1.75" H x 7.3" D (483mm L x 44.5mm H x 184mm D)
SHIPPING WEIGHT:	10 lbs. (4.5 Kg) shipping, 7.2 lbs. (3.3 Kg) net

Input Specifications:

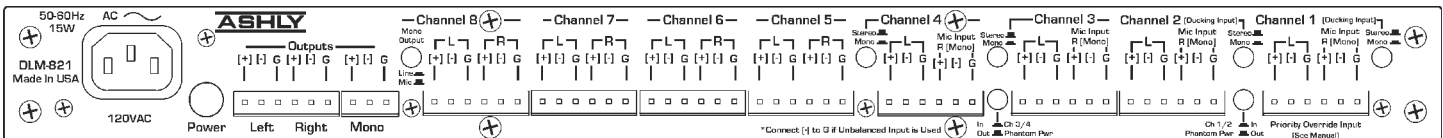
INPUT	BALANCED/ UNBALANCED	INPUT IMPEDANCE	MAX. INPUT LEVEL BEFORE CLIP	CONNECTOR
LINE INPUTS (1-4) (5-8)	Balanced	2.3 K ohm	+23dBu	Left & Right Euroblock Left & Right Euroblock
	Balanced	20 K ohm	+23dBu	
MIC INPUTS (1-4)	Balanced	2.3 K ohm	-7dBu	Left & Right Euroblock

Output Specifications:

OUTPUT	BALANCED/ UNBALANCED	OUTPUT IMPEDANCE	OUTPUT LEVEL NOMINAL	OUTPUT LEVEL MAX BEFORE CLIP	CONNECTOR
MASTER OUT (L,R)	Quasi-Balanced	200 ohm	+4dBu	+22dBu	Left & Right Euroblock
MONO OUT (Line)	Quasi-Balanced	200 ohm	+4dBu	+22dBu	Euroblock
MONO OUT (Mic)	Quasi-Balanced	200 ohm	-40dBu	-17dBu	Euroblock

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

Rear Panel DLM-821



Applications:

Permanent installations involving multiple stereo line-level sources such as boardrooms or restaurants, nightclubs, health clubs, houses of worship, sports bars or wherever you need to manage audio and provide paging in a single or dual zone application

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.

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