

Conference and lectern
Houses of worship
Boardrooms
Courtrooms
Broadcast studio

- 4 microphone and 2 stereo AUX inputs
- 1 stereo recording and 1 stereo master and 1 headphone output
- Digital signal processing incl. dbx compressor/limiter
- Intelligent mixing algorithm with noise sensitive threshold
- Full 19" metal housing with internal power supply



DMM 4/2/4

The DMM 4/2/4 is a digital automatic stereo mixer with four balanced microphone inputs, two stereo AUX inputs and one stereo recording output and one stereo master output as well as a headphone output including volume control.

A unique and highly effective, intelligent mixing algorithm automatically allocates gain among the system microphones (NOM attenuation). A special noise detection function and the "Noise Sensitive Threshold" algorithm (NST) prevent accidental activation of input channels. The mixing algorithm also includes a "Last Mic On" function and a "Best Mic On" mode. Each input channel features low cut as well as LF and HF shelving filters.

A dbx® compressor/limiter is included in the algorithm to provide a significant improvement in sound quality. Each channel offers switchable gain (Mic/Line, Mic-Lo/Mic-Hi), switchable phantom power, and an incremental level control with LED level and peak hold display. The automixing and ducking functions can be enabled and disabled for each channel separately. With the Balance/Pan function the signals of each input can be aligned to the left or right channel of the stereo master output.

An expansion connector enables multiple DMM 4/2/4 mixers to be daisy-chained for larger systems. A rear-panel control I/O port provides logic in and outputs for controlling external devices. Also available on the rear side is a RS 232 interface for PC connectivity. The DMM 4/2/4 is housed in a rugged 19" case with an integrated power supply.

AKG SOUNDS BETTER



Architects' and Engineers' Specifications

The digital automatic microphone mixer shall have four microphone and two Stereo line level inputs in a 1-U, 19" rack mount case. The automixer shall incorporate an adaptive gain mixing algorithm using a noise sensitive threshold. NOM (number of open microphones), last mic on and best mic on are inherent in the algorithm. The mixer shall contain four microphone input channels providing 3-pin XLR connectors. Each input shall be balanced, RF-filtered and capable of receiving mic or line level input signals. Switchable phantom power shall be provided for each input. The mixer shall contain 2 stereo unbalanced, RF-filtered AUX inputs providing RCA connectors. One stereo recording output providing RCA connectors and one master stereo output providing 3-pin XLR connector shall be available. The mixer shall provide the possibility of remote control via logic in/out via Sub-D connector.

Each input shall incorporate a volume control, high frequency shelving filter, a low frequency shelving filter and a switchable bass cut filter. A balance/pan function should allow the input signal to be routed to the left or right channel of the stereo output. The main output shall have an adjustable limiter as well as a master level control. The digital microphone mixer shall provide a headphone output including volume control. All functions are controlled via incremental controls on the front panel. The mixer shall provide a software locking functions to avoid unwanted operation.

Expansion ports shall provide IO access to the main and mix audio busses. For PC connectivity there should be a RS232 interface provided .

The mixer shall meet the following performance criteria. Frequency response: 20 Hz - 20 kHz; Maximum input level: +15 dBu; Maximum output level: +10 dBu; Input Impedance: > 8K ohm; S/N ratio > 90 dB; Maximum Output Level: +26 dBu. Maximum Gain: 75 dB (input to output). The mixer shall be rack mountable and occupy 1 RU. The automatic microphone mixer shall be the AKG Acoustics Model DMM 4/2/4

Specification

Inputs:	Mic/Line 1-4:	3-pin. Female XLR Connector	
		Type: balanced	
		Nominal level: -60 dB	
		Max. level: +15dB	
		Frequency response: 20Hz – 16kHz	
		Dynamic range: >90dB	
		Impedance: >8kΩ	
		Phantom power: 48V DC	
		AUX-Inputs 5-6:	2x RCA Stereo
			Type: Stereo unbalanced
Nominal level: ±0dB			
Max. level: +15dB			
Frequency response: 20Hz – 22kHz			
Dynamic range: >90dB			
Outputs:	Line Stereo:	1 x 3-pin male XLR connector	
		Type: balanced	
		Nominal level: ±0dB	
		Max. level: +10dB	
		Frequency response: 20Hz – 20kHz	
	Recording Stereo.:	1x RCA Stereo	
		Type: balanced	
		Nominal level: ±0dB	
		Max. level: +10dB	
		Frequency response: 20Hz – 20kHz	
Control-Input:	Analog:	26-pin. SubD I/O's via logic contacts and VCA.	
	PC:	RS 232	
General:	Sample frequency:	48kHz	
	Format:	24Bit	
	Operating temperature:	+5 - 45°C	
	Max. humidity during operation:	83%	
	Power supply:	100 – 240V/50-60Hz	
	Max. power consumption:	35VA	
	Size:	483 x 44 x 203 mm (19.0 x 1.7 x 8.0 in.)	
	Color:	black RAL 9005	
	Weight:	3,5 kg (7.7 lbs.)	

www.akg.com

AKG Acoustics GmbH

Lemböckgasse 21–25, 1230 Vienna/AUSTRIA, phone: + 43 1 86654 0
e-mail: sales@akg.com

AKG Acoustics, U.S.

8400 Balboa Boulevard, Northridge, CA 91329, U.S.A., phone: + 1 818 920 3212
e-mail: akgusa@harman.com

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