

# Australian Monitor

# AMD100

## Mixer Amplifier

The AMD100 is a feature packed, compact 1 RU Class D amplifier. Featuring the power of on board DSP processing, the connectivity of third party control via the RS485 port and the ability to support either the Australian Monitor ICON CP control panel or allow connection to a third party control system and a USB port for setup or for PC control. The Australian Monitor AMD100 represents the future of constant voltage amplification.



## Features

- 4 mic/line inputs + 4 Stereo source inputs
- Stereo line output + Mono amplifier output (Constant voltage or Low impedance operation)
- 1 RU Class D design
- 20Hz – 20kHz frequency response (Stereo Line Output)
- Low power contact closure
- DSP processing on board with Parametric EQ, compressor, noise gate and high and low pass filters
- Third party control via serial, Software GUI or via Australian Monitor Icon-CP control panel
- Remote VCA master volume control
- Mic/Line inputs have 34 volt phantom power



# Specifications

The mixer amplifiers shall be of 1 RU Class D design, that features four balanced Mic/Line level inputs each with 34V DC phantom power available and four dual RCA program source inputs. Delivering 100 watts at 100 volt, 70 volt, 8 ohm or 4 ohm and with on board tones (Bell, Pre Announce, Alert and Evac), remote master VCA, Vox triggered output (assignable to any one or combination of mic/line ins), 24DVC back up power input and low power contact closure. The amplifier shall be the Australian Monitor AMD100 mixer amplifier and shall have comprehensive DSP on board.



## AMD100

		SPECIFICATION		CONDITIONS
Frequency response	Mic/Line Inputs	Line Level Output	20-20kHz, -3dB	Signal Input -2dB below clip
		Amp Output	60-20kHz, -3dB	Signal Input -2dB below clip
	Stereo Inputs	Line Level Output	20-20kHz, -3dB	Signal Input -2dB below clip
		Amp Output	60-20kHz, -3dB	Signal Input -2dB below clip
Total Harmonic Distortion	Mic/Line Inputs	Line Level Output	<0.05 %	0dB gain, Signal input -2dB below clip
		Line Level Output	<0.1 %	45dB gain, Signal input -2dB below clip
		Amp Output	<0.5 %	Signal input -2dB below clip
	Stereo Inputs	Line Level Output	<0.05 %	Signal input -2dB below clip
		Amp Output	<0.5 %	Signal input -2dB below clip
Phantom Power		+34V DC	Available via individual switch on each mic/line channel	
Crosstalk Between channels		> 80dB	1kHz, input channel at clip, measured on line output of adjacent output	
Signal To Noise Ratio	Mic/Line Input	> 92dB	A-weighted, to line and amp output, 20Hz to 20kHz	
	Stereo Input	> 91dB	A-weighted, to line and amp output, 20Hz to 20kHz	
Power Output	4ohm	100W	20Vrms	
	8ohm	100W	28.28Vrms	
	70V / 100V	100W		
Power Consumption	Green	9W	No control panel attached, 4ohm load	
	Idle	15W	No control panel attached, 4ohm load	
	1/8th Power	32W	No control panel attached, 4ohm load	
	1/3rd Power	60W	No control panel attached, 4ohm load	
Thermal Dissipation	Idle	15W, (51.18Btu\Hr)	Pink noise 12dB crest factor, typical of program music just before clip	
	1/8th	18.86W, (64.32 Btu\Hr)		
Power Input		AC Mains (230V to 240V / 115V to 120V) or +24V DC		
Recommended Operating Temp		10°C to 45°C (50°F to 113°F)		
Recommended Operating Humidity		5% to 95%		
Dimensions (H x W x D)	Not including rack ears or front panel knobs	44 x 430 x 330mm (1.75" x 16.9" x 13")		
Shipping Dimensions (H x W x D)		140 x 540 x 410mm (5.51" x 21.3" x 16.1")		
Weight	Net	6kg (13.2lb)		
	Shipping	8kg (17.6lb)		

ENGINEERED BY AUSTRALIAN MONITOR

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