

## DAM614

DIGITAL MATRIXES

*Installation Digital Mixer*



### PRODUCT OVERVIEW

DAM614 is a fully programmable audio digital mixer. It includes 6 audio inputs and 4 audio outputs, front panel inputs and outputs level controls, DSP processing, RS-232 connectivity and 4 REMOTE control ports (0-10VDC). Its 4 outputs can be used as mono independent zones or coupled as stereo zones. Regarding inputs, the first 2 are stereo LINE inputs, and the 3rd, 4th, 5th and 6th ones are MIC/LINE ready, being possible to use them independently (mono) or as stereo-coupled inputs.

### KEY FEATURES

- DSP @ 24 bits / 48kHz
- Front panel LCD display
- 6 front panel input control digital knobs (one per input)
- 4 front panel output control digital knobs (one per output)
- 4 front panel keys, for parameters adjustment and menus navigation
- Processing:
  - Independent level control for each input and output
  - Independent mixer for each output zone
  - Crossover filters available for each output
  - Independent 10 band graphic EQ for each output
  - Independent and adjustable High-pass filter available for MIC/LINE inputs
  - 2 level priority PAGER / DUCKER function, triggered by MIC/LINE inputs
  - Independent Noise Gate function for MIC/LINE inputs
  - Independent Feedback Suppressor Function for MIC/LINE inputs
  - Adjustable delay time for 2 outputs

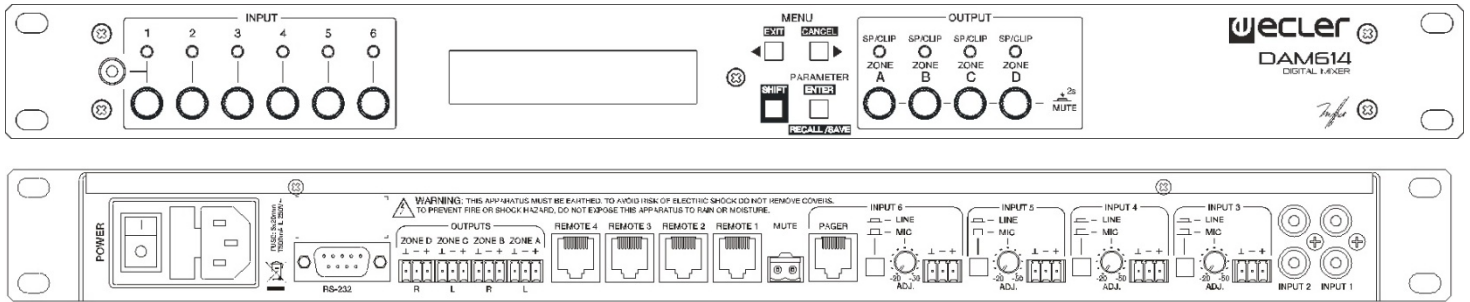
### APPLICATIONS

- A/V corporate, retail and education applications
- BGM & Paging solutions, with message priorities and source/volume independent selection
- Conferencing
- P.A. management (multi-way speaker processing, delay adjustment, etc.)

### CERTIFICATIONS

- EN60065:2014
- EN55103-1:2009
- EN55103-2:2009
- 2006/95/EC
- 2004/108/CE

MECHANICAL DIAGRAMS



TECHNICAL DATA

<b>INPUT 1, 2 (LINE)</b>	
<b>Sensitivity</b>	0 / -6dBV Internal jumper adjust. 0dBV factory default
<b>Input impedance</b>	>13k
<b>Input connector</b>	RCA female
<b>INPUT 3, 4, 5, 6 (MIC)</b>	
<b>Sensitivity</b>	-20 / -50dBV External potentiometer adjust
<b>Input impedance</b>	>24k electronically balanced
<b>CMRR</b>	>55dB (20Hz ÷ 20kHz)
<b>Input connector</b>	Terminal block (Symmetrical)
<b>INPUT 3, 4, 5, 6 (LINE)</b>	
<b>Sensitivity</b>	0 / -6dBV Internal jumper adjust. 0dBV factory default
<b>Input impedance</b>	>24k electronically balanced
<b>CMRR</b>	>55dB (20Hz ÷ 20kHz)
<b>Input connector</b>	Terminal block (Symmetrical)
<b>ZONE OUTPUTS</b>	
<b>Nominal output level</b>	0dBV
<b>Output impedance</b>	300Ω electronically balanced
<b>Output connector</b>	Terminal block (Symmetrical)
<b>A/D &amp; D/A</b>	
	24bit / 48kHz
<b>FREQUENCY RESPONSE</b>	
	<10Hz ~ 20kHz (+0dB/ -0.5dB)
<b>OUTPUT NOISE FLOOR (FFT)</b>	
	>110dB (from 20Hz to 20kHz)
<b>THD + NOISE</b>	
	< 0.0058% (1kHz, 1Vrms)
<b>CROSSTALK</b>	
	>90dB, 20Hz ÷ 20kHz
<b>INPUT EQ</b>	
<b>Type</b>	Baxandall 3 ways EQ
<b>Gain</b>	-10dB ~ +10dB in 0.1dB steps
<b>Frequency</b>	Low 200Hz Mid 1kHz High 6.3kHz
<b>INPUT 3, 4, 5, 6 TALKOVER EQ</b>	
<b>Type</b>	Assignable to any output zone. 2 priority levels
<b>Modes</b>	Ducker / Pager (only input 6)
<b>Threshold</b>	-80 / +12dBV
<b>Depth</b>	0 ~ 80dB
<b>Attack time</b>	5 ~ 2000ms
<b>Hold time</b>	10 ~ 3000ms
<b>Release time</b>	50 ~ 3000ms
<b>Chime (only input 6)</b>	ON / OFF. Variable volume. Two different melodies

## INPUT 3, 4, 5, 6 NOISE GATE

<b>Threshold</b>	-80 / +12dBV
<b>Depth</b>	0 ~ 80dB
<b>Attack time</b>	0.1 ~ 500ms
<b>Hold time</b>	10 ~ 3000ms
<b>Release time</b>	10 ~ 1000ms

## INPUT 3, 4 OTHER OPTIONS

<b>Feedback supressor</b>	Frequency shifter type.
<b>High pass filter (hum &amp; pop supressor)</b>	50 ~ 150 Hz 12dB/oct Butterworth

## ZONE OUTPUT EQ

<b>Type</b>	10 band EQ
<b>Filters</b>	Adaptable Q to achieve maximum flat response
<b>Gain</b>	-10dB ~ +10dB step 0.1dB
<b>Frequencies</b>	31, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz

## ZONE OUTPUT CROSSOVER FILTERS

<b>Type</b>	Low & High Pass Butterworth 12 dB/oct
<b>Frequency</b>	20Hz ÷ 20kHz

## ZONE OUTPUT COMPRESSOR

<b>Threshold</b>	-36 / +12dBV
<b>Ratio</b>	1:1 ~ 1:inf (LIMITER)
<b>Knee</b>	Hard / Soft
<b>Attack time</b>	0.1 ~ 500ms
<b>Release time</b>	10 ~ 1000ms
<b>Make-up gain</b>	0dB ~ +10dB

## ZONE OUTPUT DELAY

<b>Delay Time</b>	10 ~ 1000ms (10 ~ 343,4m)
<b>Units</b>	Milliseconds, seconds, centimeters, meters

## EXTERNAL MUTE

<b>Configuration</b>	Normally open. Assignable to any output zone
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## REMOTE CONTROLS

<b>Remote type</b>	WpMVOL-SR. Up to 4 remotes
<b>Configuration</b>	Input volume Zone volume Input selector Preset selector

## GENERAL

<b>Mains</b>	90÷264VAC 50/60Hz
<b>Power consumption</b>	20VA
<b>Dimensions WxHxD</b>	482.6x44x120mm
<b>Weight</b>	2.00kg