

DAM614 is an audio digital mixer that comes after the great success of its predecessor, the DAM514, including many enhancements and new features. Thanks to them, it becomes a perfect choice for both profiles of end users: the ones that feel comfortable with analogue, even old-school audio devices and their touch, and the ones that prefer the digital world. In both cases, DAM614 amazing processing power is still there. It includes 6 audio inputs and 4 audio outputs, front panel inputs and outputs level controls, DSP processing, RS-232 con-nectivity 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

- 2 stereo LINE inputs, RCA terminals
- 4 MIC/LINE inputs, balanced, Euroblock terminals. Can be configured to work independently (mono) or linked in couples to become a 3rd and/or a 4th stereo input
- 4 balanced audio outputs, Euroblock terminals: each output can work in single mode (mono zone) or linked with another output to become a stereo zone (A&B / C&D couples)
- DSP @ 24 bits / 48kHz
- Front panel LCD display, 2x20 characters and 10 front panel LED indicators (one for each input and output)
- 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
- 4 REMOTE ports (0-10 VDC), ready for inputs or outputs volume control, source selection, presets recovery, etc., using WPm series wall panels
- PAGER port for real-time voice paging, using an MPAGE4 console unit
- MUTE port for one or several zones muting via external contact closure
- RS-232 Interface with EclerCOMM free application (<http://www.ecler.com/en/products/software.html>) and CA-NET protocol compatibility (third-party integration)
- Processing:
 - Independent level control for each input and output
 - Independent mixer for each output zone: a different combination of inputs and levels (a mix) can be adjusted for each of the 4 available outputs
 - Independent 3 band tone control (BASS-MID-TREBLE) for each input
 - 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 (emergency, paging, message delivery, etc.), triggered by MIC/LINE inputs
 - Independent Noise Gate function for MIC/LINE inputs
 - Independent Feedback Suppressor Function (feedback loops, or Larsen effect) for MIC/LINE inputs
 - Adjustable delay time for 2 outputs
- System templates to create new user configurations.
- 20 user presets and system templates to create new user configurations
- Three password-protected front panel lock modes.



Recommended amplification

- MPA, multichannel series
- NXA, multichannel networkable series
- DPA and GPA stereo series
- HZA, multichannel 100V line series
- HSA, 100V line series

Accessories

- MPAGE4, paging station
- WPm, series wall panel controls

Applications

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

Technical Characteristics DAM614

INPUT 1, 2 (LINE)	Sensitivity	0 / -6dBV Internal jumper adjust. 0dBV factory default
	Input impedance	>13k
	Input connector	RCA female
INPUT 3, 4, 5, 6 (MIC)	Sensitivity	-20 / -50dBV External potentiometer adjust
	Input impedance	>24k electronically balanced
	CMRR	>55dB (20Hz ÷ 20kHz)
INPUT 3, 4, 5, 6 (LINE)	Input connector	Terminal block (Symmetrical)
	Sensitivity	0 / -6dBV Internal jumper adjust. 0dBV factory default
	Input impedance	>24k electronically balanced
ZONE OUTPUTS	CMRR	>55dB (20Hz ÷ 20kHz)
	Input connector	Terminal block (Symmetrical)
	Nominal output level	0dBV
A/D & D/A	Output impedance	300Ω electronically balanced
	Output connector	Terminal block (Symmetrical)
FREQUENCY RESPONSE	24bit / 48kHz	
	<10Hz ~ 20kHz (+0dB / -0.5dB)	
OUTPUT NOISE FLOOR (FFT)		>110dB (from 20Hz to 20kHz)
THD + NOISE		< 0.0058% (1kHz, 1Vrms)
CROSSTALK		>90dB, 20Hz ÷ 20kHz
INPUT EQ	Type	Baxandall 3 ways EQ

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INPUT EQ	Gain	-10dB ~ +10dB in 0.1dB steps
	Frequency	Low 200Hz Mid 1kHz High 6.3kHz
	Type	Assignable to any output zone. 2 priority levels.
INPUT 3, 4, 5, 6 TALKOVER	Modes	Ducker / Pager (only input 6)
	Threshold	-80 / +12dBV
	Depth	0 ~ 80dB
	Attack time	5 ~ 2000ms
	Hold Time	10 ~ 3000ms
INPUT 3, 4, 5, 6 NOISE GATE	Release time	50 ~ 3000ms
	Chime (only input 6)	ON / OFF. Variable volume. Two different melodies
	Threshold	-80 / +12dBV
	Depth	0 ~ 80dB
	Attack time	0.1 ~ 500ms
INPUT 3, 4, 5, 6 OTHER OPTIONS	Hold Time	10 ~ 3000ms
	Release time	10 ~ 1000ms
	Feedback suppressor	ON / OFF. Variable volume. Two different melodies
ZONE OUTPUT EQ	High pass filter (hum & pop suppressor)	50 ~ 150 Hz 12dB/oct Butterworth
	Type	10 band EQ
ZONE OUTPUT EQ	Filters	Adaptable Q to achieve maximum flat response
	Gain	-10dB ~ +10dB step 0.1dB
	Frequencies	31, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz

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ZONE OUTPUT-CROSSOVER FILTERS	Type	Low & High Pass Butterworth 12 dB/oct	
	Frequency	20Hz ÷ 20kHz	
	Threshold	-36 / +12dBV	
ZONE OUTPUT COMPRESSOR	Ratio	1:1 ~ 1:inf (LIMITER)	
	Knee	Hard / Soft	
	Attack time	0.1 ~ 500ms	
	Release time	10 ~ 1000ms	
ZONE OUTPUT DELAY	Make-up gain	0dB ~ +10dB	
	Delay Time	10 ~ 1000ms (10 ~ 343,4m)	
EXTERNAL MUTE	Units	Milliseconds, seconds, centimeters, meters	
	Configuration	Normally open. Assignable to any output zone	
REMOTE CONTROLS	Remote type	WPmVOL-SR. Up to 4 remotes	
	Configuration	Input volume	
		Zone volume	
		Input selector	
GENERAL	Preset selector		
	Matrix Volume		
GENERAL	Mains	90~264VAC 50/60Hz	
	Power consumption	20VA	
	Dimensions WxHxD	482.6x44x120mm	
Weight		2.00kg	