

INSTALLATION AUDIO DIGITAL MIXER



DAM514 is an audio digital mixer including 5 audio inputs and 4 audio outputs, DSP processing, RS-232 connectivity and 4 REMOTE control ports (0-10VDC). Its 4 outputs can be used as mono independent zones or in stereo zones mode. Regarding inputs, the first 3 are stereo LINE inputs, and the 4th and 5th ones are MIC/LINE ready, being possible to use them independently (mono) or as a 4th stereo couple input.

Main Characteristics

- 3 stereo LINE inputs, RCA terminals
- 2 MIC/LINE inputs, balanced, Euroblock terminals. Can be configured to work independently (mono) or linked to become 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 (1&2 / 3&4 couples)
- DSP @ 24 bits / 48kHz
- Front panel LCD display, 2x20 characters
- 4 front panel configuration keys + digital encoder, for parameters adjustment and menus navigation
- 1 backlit control key (MUTE, selection or configuration functions) for each input and output (9 keys in total)
- 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

Technical Characteristics

DAM514

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

Technical Characteristics

DAM514

INPUT EQ	Type	Baxandall 3 ways EQ
	Gain	-10dB ~ +10dB in 0.1dB steps
	Frequency	Low 200Hz Mid 1kHz High 6.3kHz
ZONE OUTPUT EQ	Type	10 band 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
OUTPUT CROSSOVER FILTERS	Type	Low & High Pass Butterworth 12 dB/oct
	Frequency	20Hz ÷ 20kHz
INPUT 4, 5 TALKOVER	Type	Assignable to any output zone. 2 priority levels.
	Modes	Ducker / Pager [only input 5]
	Threshold	-80 / +12dBV
	Depth	0 ~ 80dB
	Attack time	5 ~ 2000ms
	Hold Time	10 ~ 3000ms
	Release time	50 ~ 3000ms
	Chime [only input 5]	ON / OFF. Variable volume. Two different melodies

- RS-232 Interface with EclerCOMM free application (<http://www.ecler.com/en/products/software.html>) and CA-NET protocol compatibility
- 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 each MIC/LINE input (4 & 5)
 - PAGER / DUCKER function, independently adjustable for inputs 4 and 5, with 2 priority levels
 - Independent Noise Gate function for each MIC/LINE input (4 & 5)
 - Independent Feedback Suppressor Function (feedback loops, or Larssen effect) for each MIC/LINE input (4 & 5)
- System templates to create new user configurations:
 - T1: 4 stereo INs x 4 mono OUTs
 - T2: 4 stereo INs x 2 stereo OUTs
 - T3: 4 stereo INs x 1 stereo OUT + 2 mono OUTs
 - T4: 3 stereo INs + 2 mono INs x 4 mono OUTs
 - T5: 3 stereo INs + 2 mono INs x 2 stereo OUTs
 - T6: 3 stereo INs + 2 mono INs x 1 stereo OUT + 2 mono OUTs
- User Presets: 20
- Inputs, Outputs and Presets label edition
- Three password-protected front panel lock modes:
 - Total
 - Only MUTE/VOL for the inputs
 - Only MUTE/VOL for the inputs as well as outputs' level adjustment



Recommended amplification

- **MPA**, multichannel series
- **HZA**, multichannel 100V line series
- **NXA**, multichannel networkable series
- **NPA**, stereo networkable 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

DAM514

INPUT 4, 5 NOISE GATE	Threshold	-80 / +12dBV
	Depth	0 - 80dB
	Attack time	0.1 - 500ms
	Hold Time	10 - 3000ms
	Release time	10 - 1000ms
INPUT 4, 5 OTHER OPTIONS	Feedback suppressor	Frequency shifter type
	High pass filter (hum & pop suppressor)	50 - 150 Hz 12dB/oct Butterworth
EXTERNAL MUTE	Configuration	Normally open. Assignable to any output zone
	Remote type	WpMVOL-SR. Up to 4 remotes
REMOTE CONTROLS	Configuration	Input volume Zone volume Input selector Preset selector
	Mains	90-264VAC 50/60Hz
	Power consumption	25VA
	Dimensions WxHxD	482.6x44x120mm
GENERAL	Weight	1.75kg