

SAMS series



The SAM mixer series has been specially designed for all public address and communication systems requiring a minimum risk of unwanted external manipulation.

Frequently used controls are easily accessible. Specific adjustments remain only accessible by the installer for precise and permanent settings.

SAM SERIES are very easy to use, even for non-technical users. All this is packed into a compact, 1 unit high, 19" rack unit.

SAM series general KEY features

- Universal 1 RU, 19" installation mixers
- Excellent frequency response
- Balanced MIC and stereo LINE inputs and main outputs
- Reliable proprietary power supply
- Ideal for any application requiring a trouble free mixer

SAM series Technical Data overview

SAM 312

3 input channels, 2 main outputs. 19" 1 RU universal mixer

- 3 MIC / stereo LINE (RCA) input channel mixer
- Input signal pushbutton selector (MIC/LINE) on back panel
- Independent internal assignable phantom power for all MIC inputs
- Direct MIX input allows straight forward connection of further mixers
- Triple tone control (accessible only with screwdriver)
- 2 stereo OUTPUTS (XLR3 / RCA)
- 3 LED OUTPUT level meter
- 2 additional stereo REC outputs (REC1, REC2)
- Mono mode switch
- Headphones general MIX monitoring
- Remote MUTE control (EUROBLOCK) allows connection with fire detection systems

SAM 512T

5 input channels, 2 main outputs. 19" 1 RU universal mixer

- 5 MIC / stereo LINE (RCA) input channel mixer
- Input signal pushbutton selector (MIC/LINE) on back panel
- PFL on all inputs for headphone monitoring
- Independent internal assignable phantom power for all MIC inputs
- Channel 1 features integrated TALKOVER on MIC input. Additional front panel MIC connector
- Direct MIX input allows straight forward connection of further mixers
- Triple tone control (accessible only with screwdriver)
- 2 stereo OUTPUTS (XLR3 / RCA) with independent volume control
- 3 LED OUTPUT level meter
- 2 additional stereo REC outputs (REC1, REC2)
- Mono mode switch
- Full remote MUTE control (EUROBLOCK) allows connection with fire detection systems



SAM 614

6 input channels routable to 2 main outputs. 19" 1RU universal mixer

- 6 input channels
- MIC (XLR3) inputs on channels 1 and 2
- MIC/ stereo LINE (RCA) in channels 3 and 4. Input signal pushbutton selector (MIC/LINE) on back panel
- Stereo LINE (RCA) on channels 5 and 6
- Input signal gain level control (accessible only with screwdriver)
- Each channel features signal present (SP) and CLIP indicators
- General phantom power switch located on back panel. Independent internal phantom power assignment to any MIC input
- Triple tone control (accessible only with screwdriver)
- 2 main stereo OUTPUTS (XLR3) with independent volume control
- 3 LED OUTPUT level meter
- Input channels can be routed to any main output (A,B) or both
- 2 additional stereo REC outputs (REC1, REC2)
- Mono mode switch
- Headphones monitoring of selected output (A or B)
- Integrated, internally configurable talkover. Affects OUT A and REC A

General applications

- Gyms
- Conference boards
- Restaurants
- Education centres
- Leisure venues
- A/V presentations

TECHNICAL CHARACTERISTICS		SAM 312 Preliminary Data	SAM 512 Preliminary Data	SAM 614
Inputs Sensitivity nom[*]/Impedance	LINE MIC BAL MIX GAIN	0dBV/50k Ω -50(-30)dBV*/2.2k Ω 0(-10)dBV*/>20(>6)k Ω	0dBV/50k Ω -50(-30)dBV*/2.2k Ω 0(-10)dBV*/>20(>6)k Ω	-5dBV/47k Ω -45dBV*/>1k Ω
Input sensitivity adjust		-	-	\pm 20dB
Outputs Level/Minimum load	OUT 1 (A) BAL OUT 2 (B) REC HEADPHONES	0(+6)dBV*/600 Ω 1(2)V 0(+6)dBV*/2.2k Ω 1(2)V 0dBV/10k Ω 200mW/200 Ω	0(+6)dBV*/600 Ω 1(2)V 0(+6)dBV*/2.2k Ω 1(2)V 0dBV/10k Ω 200mW/200 Ω	0(+6)dBV*/600 Ω 1(2)V 0(+6)dBV*/600 Ω 1(2)V 0dBV/10k Ω 230mW/400 Ω
Frequency response	LINE MIC BAL	10Hz-55kHz -1dB 10Hz-35kHz -1dB	10Hz-55kHz -1dB 10Hz-35kHz -1dB	10Hz-30kHz -1dB 10Hz-30kHz -1dB
Harmonic distortion	LINE MIC BAL	<0.01% <0.02%	<0.01% <0.02%	<0.01% <0.06%
CMRR	MIC	>70dB@1kHz	>70dB@1kHz	>75dB@1kHz
Signal/Noise ratio	LINE MIC BAL	>100dB >85dB	>100dB >85dB	>100dB >80dB
Tone control	BASS MID TREBLE	100Hz \pm 15dB 2kHz \pm 15dB 10kHz \pm 15dB	100Hz \pm 15dB 2kHz \pm 15dB 10kHz \pm 15dB	100Hz \pm 12dB 1.8kHz \pm 15dB 10kHz \pm 12dB
Talkover		-	TIME 1/2/3 seg* EFFECT -30 dB	RECOVERY TIME 2 (1-3) seg*
Phantom voltage		+18VDC	+18VDC	+18VDC
Mains Power consumption		90-264VCA 47-63Hz 18VA	90-264VCA 47-63Hz 20VA	90-264VCA 29VA
Dimensions	Panel Depth	482.6x44mm 195mm	482.6x44mm 195mm	482.6x44mm 195mm
Weight		2.4kg	2.4kg	2.6kg

[*] Internally selectable

All the characteristics are subject to variation due to production tolerances. ECLER SA reserves the right to make changes or improvements in manufacturing or design that may affect specifications.

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