AM2

Gain-Sharing Automatic Mic Mixer and RAD

The Rane AM2 is both an 8 channel, gain-sharing automatic mic mixer and simultaneously a Rane RAD. Use it as a standalone mic-only mixer, add more gain-shared mics using up to seven additional AM2 Automixers, and/or use the RAD Port to transport the mic mix to Rane's HAL system.

Each of the eight XLR Mic Inputs offers front panel input Level controls feeding a gain-sharing automatic mixer. The mic inputs have a fixed 100 Hz to 7 kHz bandpass filter to provide the best voice-only automatic mixing using the gain-sharing algorithm.

The XLR Main Output can be set to mic- or line-level to feed a mic snake or a +20 dBu max balanced input. When an AM2 is used as a standalone, both the XLR Output and the RAD Port output audio are affected by the front panel Output Level control.

The RAD Port sends the AM2 Output mix to a Rane HAL System. Cascade IN accepts audio and data from an upstream AM2's Cascade OUT. This adds eight more mic channels to the initial AM2 creating a 16-channel gain-sharing automix. A maximum of eight AM2s can be cascaded, offering up to 64 gain-shared mics. Rear panel Fault, Locate, and Power indicators inform head-scratchers of device errors, the AM2's physical location and AC power status.

Features

Inputs:

- Gain-Sharing Automatic Mic Mixing:
  - Eight XLR Inputs with Level controls & Sig/OL indicators.
  - Each can be Mic, Mic with 48V phantom, or Line-level.
- Add up to 64 more gain-sharing inputs by cascading AM2 Automixers.
- Add other audio sources, line inputs and remote controls by connecting to HAL system.

Outputs (all mono):

- XLR Main with Mic/Line switch, Level control & Sig/OL.
- Rane RAD and Cascade IN RJ-45 Ports:
  - Cascade In Port connects up to seven additional Rane AM2 mixers, (eight units total)
  - RAD Port may send Output to HAL (DSP/control). It is possible to cascade the AM2 mix into Halogen's Gain-Sharing Auto Mixer or Room Combine Processor DSP, so that all mics connected to HAL may gain-share.

XLR Inputs	Mono, Balanced, Mic/Line Selectable
Phantom Power	+48V per IEC 60268-15, Selectable in Mic mode
Maximum Input	-18 dBV / -6 dBV / +12 dBV (Dynamic / Condenser / Wireless)
Input Impedance	2.01kΩ, 1%
Input Gain Range	-80 to +34 dB / -80 to +26 dB (Mic / Wireless)
Frequency Response	80 Hz to 7 kHz, +0/-3 dB, -20 dBFS, Extended Vocal Range
Main Output	Mono, Balanced, XLR
Maximum Output	-20 / +20 (Mic / Line), 10 kΩ load
Output Impedance	51 / 300 Ω, 1%
Output Gain Range	-80 to 0 dB
Frequency Response	80 Hz to 7 kHz, +0/-3 dB, -20 dBFS
Dynamic Range	101 dB re +20 dBu, 20 kHz BW, A-weighted, 0 dB gain, 10 kΩ load
THD+N	< 0.02%, 100 Hz to 7 kHz, A-weighted, +4 dBu, 0 dB gain, 10 kΩ load
LED Meters	Mono, peak detecting
Signal	-50 dBFS, Green LED, Peak-Reading
Overload	-0.5 dBFS, Red LED, Peak-Reading
RAD / Cascade In/Out	8P8C (RJ-45) Connector
Sample Rate and Resolution	48 kHz @ 24 bits
Unit	All Steel Construction
Universal Line Voltage	100 to 240V AC, 50/60 Hz, 13W
Size	1U 1.75"H x 19"W x 8.5"D (4.4 cm x 48.3 cm x 21.6 cm)
Weight	5 lb. 4 oz. (2.4 kg)