



## **Introducing the AEM-100 - Where synth, analog filter warmth, and crossfader precision come together in one great package**

Get a fresh new approach to DJing in the groundbreaking two-channel AEM-100 mixer, with:

- > Built in Oscillator
- > Analog filters and effects on both channels
- > Wet / dry and cueing for building your own synth sounds / effects
- > Pro X Fade with 1 year warranty
- > Fader Cuts fully adjustable transform buttons
- > Fader Start from the crossfader, line faders, and Fader Cuts
- > PFL and AFL sound meters
- > 4 inputs per channel with Aux both front and back
- > 2 Mic inputs
- > XLR balanced outputs
- > VCA fader control



Audio Innovate

# TECHNICAL SPECIFICATIONS:

## Inputs:

Line/Aux: 10k $\Omega$  input impedance, 5.6mV rms sensitivity for 1.0V output

Mic: 10k $\Omega$  input impedance, 1mV rms sensitivity for 1.0V output

Phono: 47k $\Omega$  input impedance, 0.9mV rms sensitivity @ 1kHz for 1.0V output

## Outputs:

Master: 8.6V rms

Booth: 8.6V rms

Record: 1.0V rms

Headphone Amp: .5 watts / 47 $\Omega$ , THD < 0.1%

## Equalizer:

3-band Stereo Equalizer per channel, -30dB cut / +10dB boost

## Signal to noise ratio

Line: 92dB (JIS-A)

Aux: 92dB (JIS-A)

Mic: 87dB (JIS-A)

Phono: 83dB (JIS-A)

## Frequency Response

Line: 20Hz~20kHz  $\pm$ 1dB

Aux: 20Hz~20kHz  $\pm$ 1dB

Mic: 20Hz~15kHz  $\pm$ 1dB

Phono: RIAA  $\pm$ 0.5dB

**Talkover attenuation:** Maximum -19dB, minimum -16dB attenuation of main audio

**Power consumption:** 18 Watts typical, 22 Watts with full headphone output

**Dimensions:** 10" wide \* 14" deep \* 4.2" high

**Weight:** 6.0kg

## Life rating:

Crossfader: >4,000,000 cycles

CH1, CH2 Line faders: >100,000 cycles

Fader Cuts buttons: >1,000,000 cycles

Misc. faders: >100,000 cycles

## Effect circuitry:

Noise, Oscillator: 0 to 3dB max level, oscillator has variable frequency square wave.

Stutter: variable on/off from a few 1/10ths of a second transforms to high pitched ringing.

Digitize: variable frequency sample/hold circuit.

Phaser: dual phaser with variable cutoff.

Band Pass, Band Reject filters: 4-pole sweepable butterworth filters.

## Crossfader section circuitry:

Cut Time: 1.64msec min, 420msec max, full right = unlimited setting for maximum cut time

Cut Slope: 1.64msec min, 420msec max transition time between audio and cut position.

\*\*\*Cut Time and slope both set to min will turn off cut function

Fader Cut buttons, fader start, crossfader/line1/line2 response:

1.64msec max delay initial response

1.64msec max transition time for crossfader/line1/line2.

\*\*\*No delay in the audio path, delay is for the audio control only.

Output Resolution: 0.2dB typical with fader at 2/3 volume.