



E-802 SIDECAR

EIGHT-CHANNEL ELECTRODYNE MIXER

SPECIFICATION SHEET

Restored and modified by Round Sound — Nashville, Tennessee.

- EIGHT MIC / LINE INPUTS
- TWO PROGRAM OUTPUTS + VU
- FULLY REGULATED SUPPLY
- LEVEL-SET OSCILLATOR
- LA-1800 DIRECT-OUT AMPS
- TRANSFORMER-BAL. INPUTS
- 12 dB / OCT 85 cps HPF

The Electrodyne E-802 is an eight-input I-C stereo mixer built in North Hollywood in the early 1970s, with plug-in M-100 microphone modules, two program outputs, and illuminated VU metering. This unit has been fully restored and rebuilt for current studio use: the direct outputs are now driven by Electrodyne LA-1800 line amplifiers, the line inputs carry custom transformer-balanced front ends, and a 12 dB / octave high-pass filter at 85 cps was added to the path.

TECHNICAL SPECIFICATIONS

INPUTS

Eight, mic or line. Two stereo / four mono / eight mono, high or low level.

INPUT MODULES

M-100 mic preamp, 50 / 200 Ω ; gain steps 0, -10, -20, -30 dB.

OUTPUTS

Two program channels, two-gang master, individual VU per channel.

PROGRAM OUTPUT

+30 dBm maximum per channel.

GAIN

Mic 80 dB; line 30 dB.

FREQUENCY RESPONSE

± 1 dB, 30 cps – 20 kc (to +30 dBm each channel).

DISTORTION

Less than 0.5% at +30 dBm output.

NOISE

Equivalent to -127 dBm input, 20 cps – 20 kc.

EQUALIZATION

Program: low 100 cps, high 10 kc; each ± 2 , 4, 6, 9, 12 / 0 dB.

OSCILLATOR

Built-in 1 kc tone, switched into input 8 for level set.

AMPLIFIERS

I-C differential design.

CONNECTORS

Professional XL type, all inputs and outputs.

POWER

105–125 V a-c, 50–60 cps. Fully regulated, self-contained.

PANEL

Standard 5¼ × 19 rack, 11 deep; 19 lb net.

ROUND SOUND MODIFICATIONS

| REF | MODIFICATION | DETAIL |
|-----|---|--|
| 1 | LA-1800 line amplifiers on direct outputs | Transformer-isolated, +24 dBm direct feed per channel. |
| 2 | Custom transformer-balanced line inputs | Rebuilt balanced front end on the line inputs. |
| 3 | High-pass filter | 12 dB / octave, corner at 85 cps. |
| 4 | Full restoration | Recap, supply rebuild, recalibration throughout. |

LA-1800 LINE AMPLIFIER

TYPE

Preamplifier / booster / program / distribution; discrete circuit.

GAIN

20 dB nominal; to 35 dB by external strapping.

INPUT IMPEDANCE

15 k Ω , unbalanced.

FREQUENCY RESPONSE

± 0.2 dB, 20 cps – 20 kc (to +27 dBm).

DISTORTION

Less than 0.15% THD, 20 cps – 20 kc at +27 dBm.

NOISE

–105 dBm equivalent input noise (600 Ω termination).

OUTPUT IMPEDANCE

Two 600 Ω balanced, or four 150 Ω (strapped).

POWER OUTPUT

+24 dBm maximum per 600 Ω winding.

POWER REQUIRED

24 V d-c; 90 mA at +27 dBm, 5 mA quiescent.

SIZE / WEIGHT

2½ × 8 ; 26 oz (0.73 kg).

NOTE. Original Electrodyne E-802 and LA-1800 figures are manufacturer specifications, given for reference. This is a restored and modified unit; measured performance is available on request.