



Laboratory Standard Series

SOLID STATE GRAPHIC FREQUENCY EQUALIZER

A Compact Graphic Frequency Equalizer with
Almost unmeasurable 0.005% Distortion !!

G-11



ULTIMATE HIGH FIDELITY STEREO COMPONENTS

LUXMAN

CIRCUITRY:

Unlike conventional graphic equalizers using LC resonant circuits, the entire control circuitry of the G-11 features semi-conductors and capacitors, which makes it possible to offer not only an unrivalled 0.005% total harmonic distortion and intermodulation distortion even at 2V output but a superb S/N ratio exceeding 110dB (IHF A-curve).

Functions:

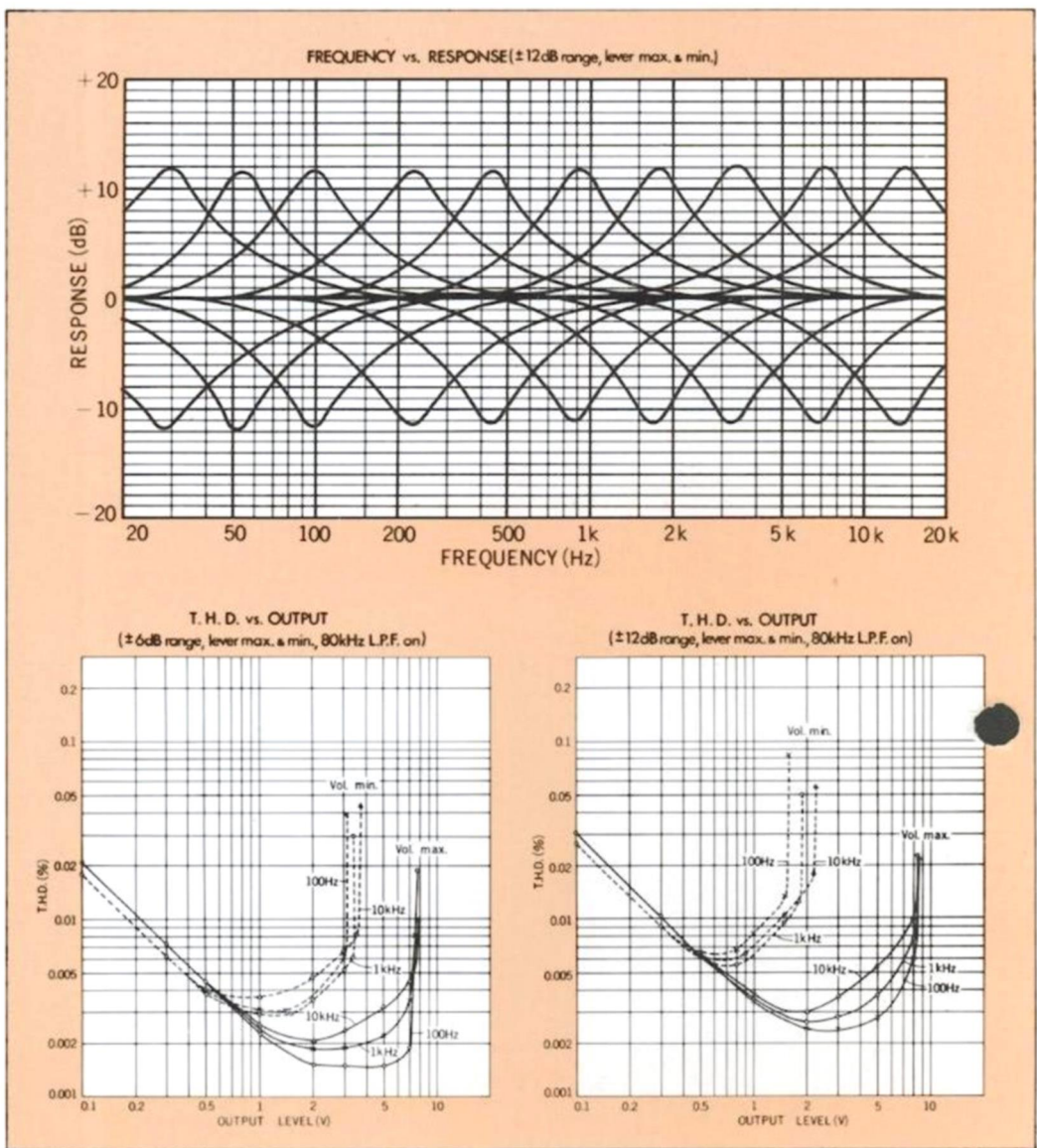
The audio frequency range for both right and left channels is divided into 10 bands in 1 octave increments based upon the "A" tone, (440Hz) which is the standard tone of musical instruments.

10 center-frequency points are provided for each channel, which permit adjustment of the peak and dip at each point, enabling you to create whatever frequency response curve you want.

Overall selection of the maximum variable amount of peak and dip can be made by 2 steps ($\pm 6\text{dB}$ and $\pm 12\text{dB}$), which allows such operations as manual tone control for large tonal variations or as in the case of our Linear Equalizer for small variations. Therefore, you can enjoy wide range compensation of frequency response, such as frequency compensation of loudspeakers or phono cartridges, optimum control of room acoustics, compensation of RIAA curve, or frequency compensation of tape decks, etc.

A bypass switch is also provided to check the effect of this equalizer and to compare equalized and unequalized response.

We know the true measurements of minimum performance standards of a quality amplifiers must be of a very high level. However, these figures are not the only requirements. Despite every effort to make amplifier design a pure science one amplifier among many with similar absolute specifications can still have, relatively, far better sound quality. The reason: there are more comprehensive theories of amplifier design which account for such problems as harmonic and intermodulation, and notch distortion; stability, filters, and equalization as they relate to statements of power. Whatever the scientific theory, LUX conducts the most detailed listening test with engineers and musicians in different fields to ensure that LUX amplifiers sound best apart from what is considered good in brochures. To LUX, sound is not only a science but an art. Listen to the ultimate difference at your nearest audio shop.



SPECIFICATIONS

Output Voltage:	typically 1V, max. 6V (at flat position)
Output Impedance:	500 ohms
T.H.D.:	no more than 0.005% (output 1V, 20Hz - 20,000Hz, flat)
I.M.D.:	no more than 0.005% (output 1V, 60Hz: 7kHz = 4 : 1, flat)
Input Sensitivity:	1V
Input Impedance:	100k ohms
Frequency Response:	10Hz - 100,000Hz (within $\pm 1\text{dB}$, at flat position)
Gain:	0dB (within $\pm 0.5\text{dB}$, at flat position)
S/N Ratio:	better than 115dB (at flat position, IHF-A weighted, input short-circuited) better than 95dB (at flat position, RMS, input short-circuited)
Equalizer Center Frequency:	28Hz, 55Hz, 110Hz, 220Hz, 440Hz, 880Hz, 1.8kHz, 3.5kHz, 7kHz, 14kHz.
Maximum Variable Amount:	$\pm 12\text{dB}$ & $\pm 6\text{dB}$ (selectable)
Bandwidth:	$Q \approx 2.3$
Channel Separation:	better than -80dB (1kHz)
Residual Noise:	below 0.018mV (at flat position)
Additional Features:	Range Selector Switch, Bypass Switch, Extra AC Outlet (unswitched, 300W)
Power Consumption:	23 W
Dimensions:	438(W) x 314(D) x 126(H) mm (17-1/4" x 12-3/8" x 4-15/16") (including legs, front & rear protrusions)
Weight:	Net 5.9 kgs (12.9 lbs.) Gross 7.3 kgs (16.1 lbs.)

Specifications and appearance design subject to change without notice.

LUX CORPORATION, JAPAN

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