

110W STEREO INTEGRATED AMPLIFIER MODEL L-308



LUXMAN 308



*© beim Hersteller
Archiv Michael-Otto*

Here is an innovative device for ultimate sound reproduction!

The Linear Equalizer.....LUXMAN's exclusive and world's first control function offers precise adjustment of the tonal balance! It highlights 110W RMS into 8Ω loads, both channels driven with differential input and fully complementary direct coupled power amplifier.

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<http://luxman.fotopic.net>

MAIN AMP

A differential input Fully Complementary Symmetry direct coupled power amplifier offers you a genuine 55W x 2 RMS into 8 Ω with less than 0.03% distortion at all audio frequencies particularly concerning crossover distortion.

Dual rail power supply system ensures a clear light bass response down to 5Hz.

Speaker muting circuits prevent unwanted switch-on thumps in the loudspeakers, and at the same time prevent accidental damage to your loudspeakers.

PRE AMP

3-stage direct coupled equalizer circuit is used for the PHONO input. Inputs up to 300mV at 1KHz ensure excellent linearity for a nominal 2mV input. Transient response is also fully considered. LUX's exclusive NF type turn-over switch allows selection among 3 positions both for the bass and treble frequencies. A "default"

switch is also provided to obtain flat response.

A dubbing switch makes it possible to reprint from one tape recorder to another or vice versa.

The Linear Equalizer, the first in the world, is used for subtle adjustment of frequency balance (a full description appears below). Other accessories such as 0~-18dB variable attenuator, 2-position high cut and low cut filters are included.

ALL ABOUT OUR LINEAR EQUALIZER

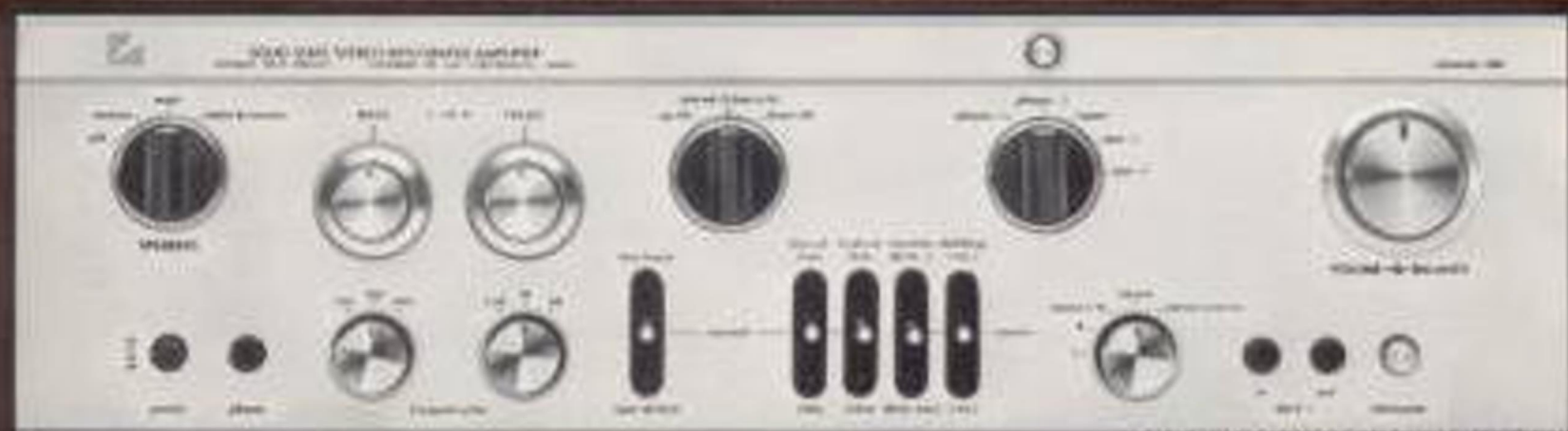
Although recordings are equalized in accordance with RIAA standards, it is quite common to encounter variations in overall tonal balance from one recording to the next. In addition, differences in listening environment and room acoustics often require subtle degrees of tonal compensation that conventional tone controls cannot correct, because of their wide range and overlapping crossover characteristics.

STANDARD QUALITY CURVES

T.H.D. Vs. POWER



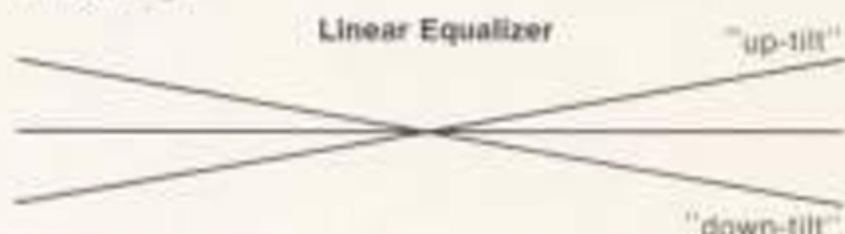
I.M.D. Vs. POWER



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THE LINEAR EQUALIZER control provides a new form of tonal compensation specifically intended for subtly augmenting regular tone controls. With the control in its mid-position, flat frequency response is achieved. Switched to either of the two "up-tilt" positions, the entire response curve is rotated about a 1KHz fixed axis so as to linearly increase treble response while simultaneously decreasing bass response. Conversely, selection of one of the "down-tilt" positions rotates the response curve in a clockwise direction, providing a gradual decrease of treble response and simultaneous increase of bass response. Degree of slope for either positive or negative settings has been carefully preset and the overall response curve maintains complete linearity from 50Hz to above 10KHz, unlike the curvature in response normally associated with ordinary tone controls. Specifically, when the control is turned to the first "up-tilt" position, it will decrease bass and increase treble by 1.5dB at

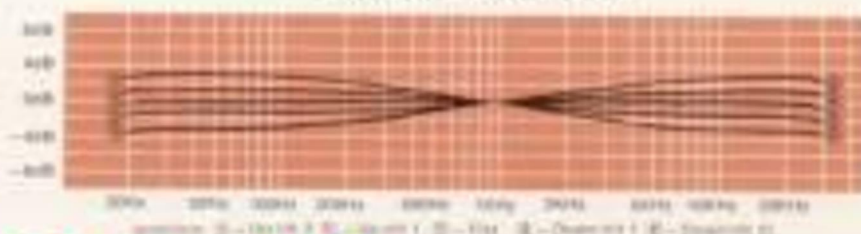
100Hz and 10KHz respectively, while selection of the second "up-tilt" position will result in a 3dB cut and boost at these same frequencies. Selection of the first "down-tilt" position will decrease treble and increase bass by 1.5dB at the same reference frequencies, while the second "down-tilt" position provides 3 dB of cut (at 100Hz) and boost (at 10KHz). Combined use of the LINEAR EQUALIZER and conventional tone controls provides a degree of tonal flexibility which cannot be achieved with any other tone control arrangement presently available. Because of the inherently linear nature of this new circuit, it introduces no increase of harmonic distortion at any of its settings.



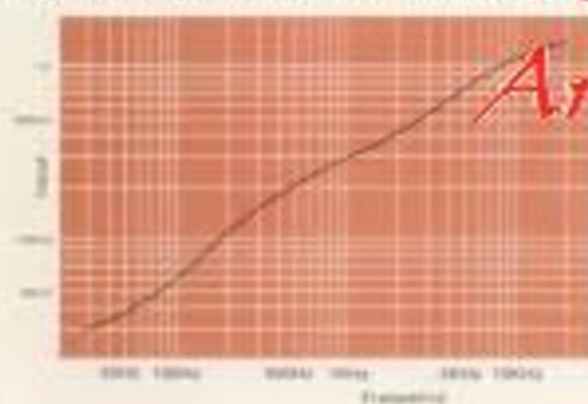
POWER BANDWIDTH



LINEAR EQUALIZER



PHONO INPUT OVERLOAD CAPABILITY



BASS TONE CONTROL



TREBLE TONE CONTROL



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SPECIFICATIONS

*Circuit:	Fully complementary direct coupled D.C. output amp utilizing dual rail supply.	
*Main Amp		
Power Output (Continuous RMS):	55W + 55W (80 both channels driven) 65W + 65W (80 single channel driven)	
Power Bandwidth:	5-50,000 Hz (-3 dB, 0.01%)	
Frequency Response:	10-50,000Hz (within -1 dB)	
T.H.D.:	below 0.03% (80, 55W)	
Intermodulation Distortion:	0.04% (80, 55W)	
Residual Noise:	0.5mV (86 dB)	
Input Impedance:	40k Ω	
Input Sensitivity:	600mV	
Damping-Factor:	40 (at 60)	
*Pre Amp		
Frequency Response:	10-50,000Hz (tuner input, -1dB)	
T.H.D.:	below 0.03% (tuner input, 1V)	
Sensitivity:	2.5mV (PHONO-1, PHONO-2), 100mV (AUX-1, AUX-2) 100mV (TUNER) input level is adjustable	
Max. input signal:	300mV (PHONO, 1KHz)	
Input Impedance:	30K, 65K, 50K Ω (PHONO-1) 65K Ω (PHONO-2) 50K Ω (TUNER) 150K Ω (AUX-1, AUX-2)	
S/N Ratio:	Over 65dB (PHONO-1, PHONO-2) Over 60dB (TUNER, AUX-1, AUX-2)	
Tone Control:	Lux type turn over frequency control	
Treble:	1.5KHz 10KHz (± 12 dB) 2KHz 4KHz (± 10 dB) 5KHz 10KHz (± 8 dB)	
Bass:	150Hz 100Hz (± 8 dB) 300Hz " (± 10 dB) 600Hz " (± 12 dB)	
Filter:	Low cut, 20Hz, 70Hz (-6dB/oct.) High cut, 7KHz, 12KHz (-6dB/oct.)	
Low Boost:	100Hz 16dB/oct.)	
Special Brand-New Control:	Linear Equalizer (5 steps)	
Accessories:	Tape dubbing, Attenuator (variable adjusting type), speaker switch, tape monitor (2 sets), pre-main amp separator, headphone jack, speaker wiring, etc.	
Dimensions:	485mm(W) x 300mm(D) x 165mm(H) (19-1/8" x 12" x 6-5/16")	
Weight:	12.5 kg (27.5 lbs)	

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We know the true measurements of minimum performance standard of a quality amplifier 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 our 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 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 tests 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.

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