

ULTIMATE HIGH FIDELITY STEREO COMPONENT

LUXMAN

MODEL C-1010

1010

SOLID STATE STEREO CONTROL CENTER

The Luxman C-1010 Pre-amplifier is a new addition to Lux's range of high class separates.



The result of hard labors at LUXMAN in research and development of the "ULTIMATE IN HIGH FIDELITY" is the matching control center for our main amplifier series M-4000 and M-2000.

You will surely find all the necessary controls and features needed in today's ultimate control center for your stereo sound system.

LUXMAN spent much time in defining what makes an audio amplifier sound like it does yet many units by various makers have similar "specs" on paper but do not necessarily produce a clear or accurate sound.

Therefore, we bring you not only one of the best available in the world on paper but is audibly the best.

Equaliser section

A Major factor in the quality of performance in any pre-amplifier is the equaliser circuit, with its direct bearing on disc reproduction. The equaliser in the 1010 has a different input direct coupled amplifier configuration.

The apparently large number of ten transistors per channel are utilised mainly outside the signal path in place of pure resistive loads, thereby increasing loop gain without further cascaded stages. This prevents distortion especially at high frequencies normally caused by the Miller effect.

A further advantage of this circuitry is that it improves the DC stability of the direct coupled configuration. This simplifies the signal path and thus contributes to the excellent low distortion figure of 0.007% THD from 20 – 20,000Hz.

The final output stage of the equaliser is a class 'A' inverted Darlington push-pull configuration – high voltage drive ($\pm 40V$) which permits the use of low impedance loads. This bears in mind the possibility of professional use where multiple recording outputs can impose severe load conditions.

Two equally important results are extremely high phono overload characteristics and excellent signal to noise ratio of around 65db.

Intermediate and Tone Control Amps

Both these amps use a direct coupled configuration similar in principle to that in the equaliser section, with resultant high linearity at the upper frequencies plus good stability and excellent signal to noise ratio.

We know the true measurements of minimum performance standards of a quality amplifier must be of a very high level.

However, these figures are not the only requirements.

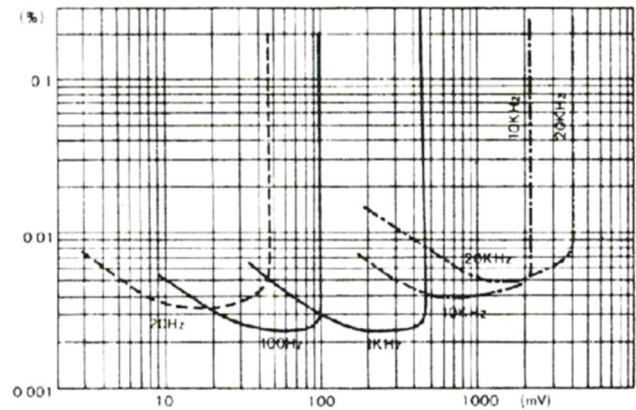
Despite every effort to make amplifier design a pure science one amplifier among many with similar absolute specification can still have, relatively, far better sound quality.

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 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.

PHONO INPUT VOLTAGE VS DISTORTION (Output: REC. OUT)



TOTAL HARMONIC DISTORTION

(AT 1V OUTPUT VOLTAGE)

20Hz	no less than	0.005%
100Hz	no less than	0.003%
1KHz	no less than	0.003%
10KHz	no less than	0.005%
20KHz	no less than	0.007%

Functions

The tone controls are Lux NF type with a three position turnover selector. They can also be completely bypassed if desired. Filters are also NF type using emitter followers, and each selected cut-off point for treble and bass has its own independent filter circuit.

Other features include a Linear Equaliser for Phono, Input Sensitivity adjustment, Input Impedance adjustment – in fact all that the discerning audiophile might require to obtain Ultimate Fidelity from his equipment.....

LINEAR EQUALIZER

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 (R.I.A.A. curve). Switched to either of the two "up-tilt" positions, the entire response curve is rotated at 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 up to 10KHz, unlike the curvature in response normally associated with ordinary tone controls.

SPECIFICATIONS

Semiconductors:	Transistors (66) Diodes (39)	
Output Voltage:	Max. 13V, Typ. 1V	
Total Harmonic Distortion:	No more than 0.007% (Pre. out 2V, 20 – 20KHz AUX, TUNER)	
Frequency Response:	2 – 80,000Hz (–0.5dB)	
Input Sensitivity:	2.5mV (phono-1 & 2, Gain cont; 0dB) 150mV (aux, tuner, monitor)	
Input Impedance:	Phono-1	30 – 100 variable (K ohms)
	Phono-2	50 (K ohms)
	Aux-2	50 (K ohms)
Aux-1		50 (K ohms)
Tuner		70 (K ohms)
S/N Ratio:	Phono-1: better than 65dB	
Phono Overload Voltage:	No less than 450mV (1KHz, RMS, Gain cont; 0dB)	
R.I.A.A. Equalization:	Within $\pm 0.2dB$	
Tone Control:	Improved LUXMAN NF type	
	Turnover freq. selection; Low – 150Hz, 300Hz, 600Hz High – 1.5KHz, 3KHz, 6KHz	
Filters:	Low cut: 10Hz, 70Hz (–18dB, –12dB) High cut: 7KHz, 12KHz (–12dB)	
Additional Features:	Audio attenuator, Output signal muting, Linear equalizer, Phono gain control, Tape dubbing & monitor function, Speaker system selector (Remote control) Military class potentiometer	
Dimensions:	485(W) x 245(D) x 175(H)mm (19-1/8" x 9-5/8" x 6-7/8")	
Weight:	Net 10kgs (22 lbs.) Gross 12kgs (26 lbs.)	

Specifications and appearance design subject to possible change without notice.

LUX AUDIO OF AMERICA LTD.

200 Aerial Way Syosset, New York 11791 U.S.A.

Printed in Japan