

SOLID STATE INTEGRATED AMPLIFIER Model L507



LUXMAN 507



A brand new integrated amplifier with many facilities to widen your listening pleasure. A genuine 100 (that's what we said – one hundred) watts RMS into 8 ohms with less than 0.03% distortion at all audio frequencies (20-20 KHz) with the addition of tape dubbing and mike mixing facilities!

In the **INPUT AMPLIFIER SECTION** we utilize a differential input completely direct coupled circuit. This is to maintain precise performance down to the lowest of audio frequencies.

At the same time we have used specially designed high frequency transistors even at the output stage which actually drives your speakers. This has helped us reduce crossover distortion (an old bug of nearly all known class "B" amplifiers) to virtually immeasurable limits, and useful output can, in fact, be maintained up to radio frequencies. This has been shown to improve listener clarity of complex musical material. Naturally, we only use hermetically sealed metal cased silicon transistors for good reliability and life time durability.

The power for our brilliant amps comes via two massive 10,000 microfarad electrolytic computer grade capacitors and a power transformer with good regulation characteristics — and of course, by courtesy of your local power station!

The **PRE-AMP SECTION** has three basic functions: the input equalizer, the intermediate buffer amplifier and the tone control amplifier which will then drive the power amplifiers.

The equalizer uses selected low noise high gain NPN and PNP transistors in a triplet direct coupled configuration. This ensures high linearity to provide almost immeasurable distortion when amplifying your phono cartridge up to the high level stages. It is also characterized by having exceptional input overload capability of $> 100\text{mV}$ RMS at 1 KHz. This is considering that normal input sensitivity is 2.4m volts for full output.

The function selectors permit separate systems for auxiliary inputs, 2 phono inputs and a tuner input. This, via the volume and buffer amplifier circuitry, allows your programme source to be subtly tailored by Lux's exclusive 3 point turnover (roll-off) frequency selectors for both the bass and treble controls. If you want a straight line response just switch on the tone defeat.

Featured additions are:

Stereo mike inputs which can be mixed by you for recording your own sounds with a favourite programme or disc, or used as a P.A. system.

Tape dubbing circuits for two tape recorders.

High and low cut filters.

Low Booster.

And a useful attenuator.

SPECIFICATIONS

Output	50 + 50 watts RMS continuous into 8Ω, both channels driven.
T.H.D.	< 0.03% (50 watts 8Ω 20-20KHz)
I.M.D.	< 0.04% (50 watts 8Ω 70Hz-70Hz = 1:4:1)
Power Bandwidth	5-50,000Hz (-3dB, 0.1% dist.)
Frequency Response	10-60,000Hz (-0.5dB at 1 watt)
Phase Equalization R.I.A.A.	20-20,000Hz $\pm 1\text{dB}$
Input Sensitivity and Impedance	Main amp = 700mV (50KΩ) Tuner, Aux 1 & 2: 100mV (55KΩ) Phono 1: 2.4mV (50KΩ, 85KΩ, 90KΩ selected) Phono 2: 2.4mV (80KΩ)
S/N Ratio	Aux 1 & 2, Tuner and Tape Monitors 1 & 2 > 80dB Phono 1 & 2 > 65dB
Max. Input Voltage	Phono 1 & 2: 300mV at 1KHz Aux 1 & 2, Tuner and Tape Monitors 1 & 2: infinite
Maximal Pre Amp Output	700mV
Max. Pre Amp Output	5 volts (10KΩ load)
Power Source Impedance	< 100Ω
Tone Controls	LUX NF type with turnover selector Bass 600Hz-300Hz-150Hz Treble 1.5KHz-2KHz-8KHz
Damping Factor	40 (8Ω load)
Residual Noise	< 0.5mV (-0.003 dB load)
Crosstalk	< -50dB
Power Consumption	200VA (Max. output 511 watts)
Dimensions	460mm (17 3/4" W x 260mm (10 1/8" D x 160mm (6 1/4" H) 11.5kg (25.35 lbs)

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Archiv Michael-Otto*



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, our amplifier always carry with another dimension specifications can still have, relatively, be better sound quality.

The reason: there are more comprehensive theories of amplifier design which account for such problems as harmonic intermodulation, and harsh distortion, stability, tones, and equalization as they relate to consistency 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 themselves.

To LUX, sound is not only a science but an art.

Listen to the ultimate difference of your nearest music shop.

LUX CORPORATION, JAPAN

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