

AM/FM STEREO RECEIVER MODEL R-600



LUXMAN 600



*© beim Hersteller
Archiv Michael Otto*

A fine performance stereo receiver from LUXMAN in the medium-priced bracket!

- Genuine 30 + 30W into 8 ohms, both channels driven with less than 0.1% total harmonic distortion at any frequency 20-20KHz.
- Wide and bright dial for easy tuning with signal strength meter for both FM and AM.
- Practical 2.1 μ V FM sensitivity (IHF) thanks to MOS FET and IC's of high integration.
- Direct coupled amplifier yields power bandwidth of 10-40KHz (0.3%, -3dB).

Electrical Specifications

FM Section

At the front end 3-gang tuning condenser is adopted and good overload and image characteristics are procured in combination with dual-gate MOS FET used in the RF amp. and mixer circuit. 2 ceramic filters featured in the IF circuit ensure good band pass response. In the IF amplifier circuit IC's with high degree of integration are used whose differential stage is utilized to gain good limiting. The IC's are featured in the MPX circuit and good separation exceeding 38dB is attained at 400Hz. The muting circuit is provided to remove inter-station noise which is controlled by the "AND" circuit composed by signal strength and centre tuning signals. The output of this circuit is used for gate signal to ensure pleasant command of muting circuit.

AM Section

A 2-gang tuning capacitor is used at the front end. Whole circuit is composed by a single piece of IC—where strong AGC is automatically put into operation, which ensures good overload characteristics compared with the ordinary discrete circuit.

Pre Amplifier Section

In addition to the ordinary BAX tone controls of NF type with defeat switch, low and high cut filters are provided for minute and versatile tailoring of reproduced sound. A loudness control is incorporated to boost both bass and treble at low volume levels.

Main Amplifier Section

Quasi-complementary direct coupled condenser output amplifier delivers 35W per channel RMS into 8 ohms both channels driven with low distortion typically under 0.1% at all powers and frequencies up to the rated output, and ensures stable performance on even 2 pairs of low efficiency loudspeakers.

Styling

As the impeccable tradition of LUXMAN all important factors are taken into account, such as accessibility, soft feeling etc. The front panel is of light gold aluminium extrusion with hair-line finish and the housing is of dignified rose-wood.

The R600 has a true value in every respect—quality, performance and beauty at such a modest cost.

SPECIFICATIONS

AUDIO SECTION
CIRCUIT

	Quasi-complementary direct coupled condenser output amplifier
RMS POWER:	30/30 Watts (8 ohms, both channels driven)
T.H.D.:	0.05% (at 10 Watts, 1 KHz)
FREQUENCY RESPONSE:	0.1% (20-20 KHz)
POWER BANDWIDTH:	10Hz-20KHz (-1dB)
INPUT SENSITIVITY:	50mV (10KHz, 10dB)
(at 30 Watts, 8 ohms, 1KHz)	30Hz-20KHz (-1dB)
REC. OUT:	PHONO 2.5 mV
DN CONNECTOR:	AUX 150mV
EQUALIZER CURVE:	TAPE MONITOR 150mV
PERMISSIBLE PHONO:	150mV
INPUT VOLTAGE:	TAPE MONITOR 150mV
TONE CONTROL:	REC. OUT 30mV 90K Ω
FILTER:	R.I.A.A.
LOUDNESS CONTROL:	100mV max at 1KHz
S/N RATIO:	Treble ± 2 dB (10KHz)
	Bass ± 6 dB (100Hz)
	HIGH CUT 70Hz 6dB/oct
	LOW CUT 70Hz 6dB/oct
	Available
	PHONO 65dB
	AUX 60dB
	TAPE MONITOR 60dB
RESIDUAL NOISE:	1.0mV
ACCESSORIES:	Head-phone Jack, Mode Selector (stereo-mono), Speaker Selector (A, B, A+B, OFF), Tape Monitor Circuit, Tone Control ON-OFF Switch, De-emphasis Switch (90/75usec) for R600E, AC Outlet for R600E, Voltage Selector (100, 120, 220, 240V) for R600E

AM SECTION

IHF SENSITIVITY:	250 μ V/m
S/N RATIO:	50dB
IF REJECTION:	40dB
IMAGE REJECTION:	50dB
T.H.D.:	0.7%
IHF SENSITIVITY:	2.1 μ V
SENSITIVITY FOR 50dB S/N:	3.8 μ V
ULTIMATE S/N:	10dB
THRESHOLD:	0.5%
Stereo:	0.6%
ALTERNATE CHANNEL SELECTIVITY:	55dB
IF REJECTION:	90dB
IMAGE REJECTION:	60dB
SPURIOUS RESPONSE REJECTION:	70dB
AM SUPPRESSION:	50dB
CAPTURE RATIO:	1.7dB
STEREO SEPARATION:	38dB (at 400Hz)
MUTING THRESHOLD:	7 μ V
STEREO THRESHOLD:	7 μ V
FREQUENCY RESPONSE (Mono Stereo):	30Hz to 15KHz +0.3dB -2.5dB

GENERAL SPECIFICATION

POWER REQUIREMENT:	R600S 220V 50-60Hz AC
	R600E 100/120/220/240V 50-60Hz AC
POWER CONSUMPTION:	140W (at rated output)
DIMENSIONS:	(W)460mm (18-1/2") x (D)380mm (14-5/8") x (H)345mm (13-5/8")
WEIGHT:	13Kgs

LUX CORPORATION, JAPAN

HEAD OFFICE & FACTORY: 1-8-21, HAKAMATSU, HIRASAKI-KU, OSAKA PHONES: 822-0021 CABLE: LUXELCT OSAKA, TELAX 203099
INTERNATIONAL DIVISION: 6-8-10, No. 13, 2-23, YUSHIMA, BUNKYO-KU, TOKYO PHONES: 833-7891 CABLE: T.S.I.-JAPAN T.S.I.J.