

# LUXMAN RX-101

## 40 Watt/Channel Digital Synthesized Receiver

The total available power of the RX-101 is a hefty 40 Watts per channel. More than ample for most home listening conditions and for driving most kinds of speaker systems.

The RX-101 is a Duo-Beta receiver, with all the audible benefits this highly acclaimed circuitry can provide. Its stability (down to 2 Ohms) makes it fully compatible with some of the finest systems available. It's an FM/AM receiver, with a 24-station memory; digitally synthesized and digitally displayed.

The RX-101 incorporates Computer Analyzed Tuning in the FM section, for the best possible reception. CAT, a Luxman innovation, *automatically*

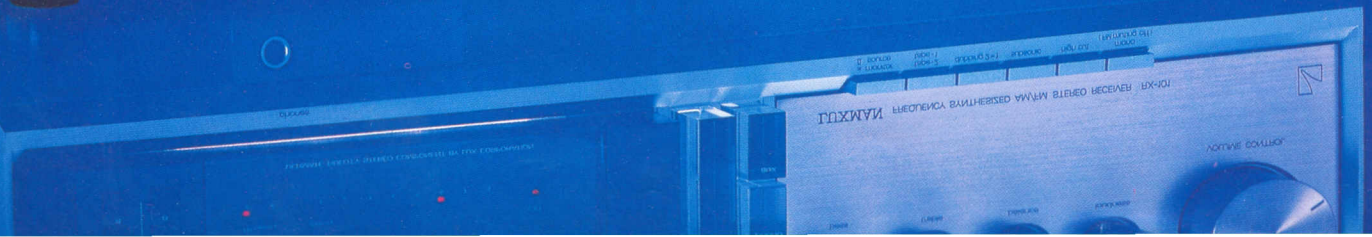
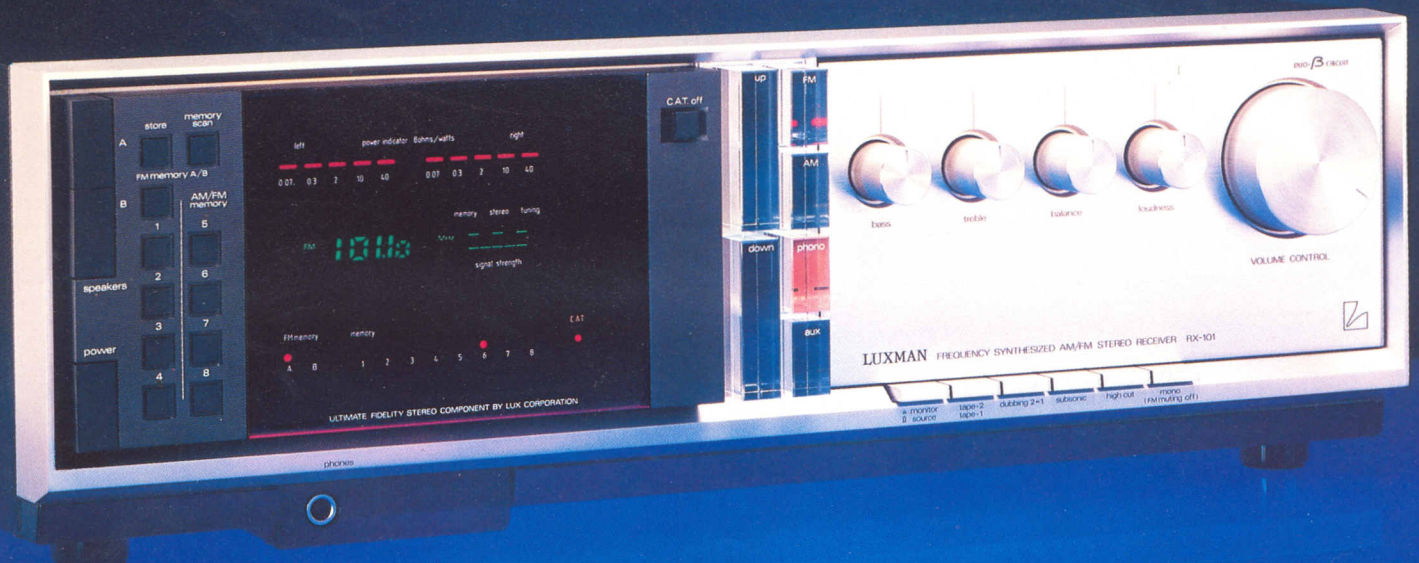
corrects and compensates the incoming signal by choosing from a combination of two independent circuits. You need only tune to the station. The RX-101 does the rest.

But, as you can see, there's more to this new receiver than a high quality signal and high quality sound.

There's high styling. A logical, functional, easy to use array of controls surrounded by a beautiful, refined, aesthetically pleasing panel. We call it ServoFace.

And we believe you'll call the RX-101 one of the most handsome audio components you've ever brought into your home.

## LUXMAN



# LUXMAN RX-101 40 Watt/Channel Digital Synthesized Receiver

## Specifications

### AUDIO SECTION

#### Power Output:

40 Watts minimum continuous per channel both channels driven into 8 Ohms with no more than 0.025% total harmonic distortion.

#### Rated I.M.:

No more than 0.025% (8 Ohms, 40 W/ch, 60 Hz: 7 KHz=4:1)

#### Frequency Response:

10 Hz-50 KHz ( $\pm 1$  dB)

#### Input Sensitivity:

2.5 mV (phono)  
150 mV (monitor, aux)

#### Input Impedance:

47K Ohms (phono)  
30K Ohms (monitor, aux)

#### Phono Overload Voltage:

200 mV (1 KHz)

#### Signal-to-Noise Ratio:

79 dB (phono, IHF-A weighted, 5 mV)

100 dB (monitor, IHF-A weighted)

#### Tone Control:

Bass: +7 dB -10 dB at 100 Hz  
Treble: +7 dB -10 dB at 10 KHz

#### Filters:

Subsonic: 30 Hz (6 dB/oct.)  
High Cut: 7 KHz (6 dB/oct.)

#### Loudness Control:

+8 dB at 100 Hz, +7.5 dB at 10 KHz

(Loudness control: max., VR: -30 dB)

### FM SECTION

#### Usable Sensitivity:

at front end input  
mono 10.3 dBf (1.8  $\mu$ V)

#### 50 dB Quieting Sensitivity:

at front end input  
mono 13.2 dBf (2.5  $\mu$ V)

#### Signal-to-Noise Ratio at

65 dBf:  
(IHF-A Weighted)  
78 dB

#### Distortion at 65 dBf:

1 KHz (mono) 0.15%  
(stereo) 0.25%

#### Capture Ratio at 65 dBf:

1.2 dB

#### Image Response Ratio:

70 dB

#### IF Response Ratio:

60 dB

#### Stereo Separation:

48 dB (1 KHz)

#### Alternate Channel Selectivity:

60 dB ( $\pm 400$  KHz)

#### SCA Rejection Ratio:

60 dB

#### Adjacent Channel Selectivity:

6 dB (40 KHz dev.  $\pm 300$  KHz)

### AM SECTION

#### IHF Usable Sensitivity

(1 MHz):  
600  $\mu$ V/m (loop ant.)

#### Image Response Ratio at

1 MHz:

40 dB

#### Signal-to-Noise Ratio:

50 dB

#### Distortion:

0.3%

#### Dimensions:

453mm wide (18.1") x 147mm  
high (5.9") x 455mm deep  
(18.2")

#### Weight:

Net 12.5 kg (27.5 lbs)  
Gross: 15.0 kg (33.0 lbs)

Specifications and design subject to change without notice.

## Features

### Discrete Circuits in Power Amplifier Section:

Every wire, every resistor, every capacitor, every circuit component in the power amplifier and pre-amplifier are carefully selected by Luxman engineers for highest performance.

### Duo-Beta Circuitry:

The RX-101 utilizes the same approach to negative feedback design that's found in Luxman's state-of-the-art components, and *only* in Luxman components. This circuit effectively minimizes the audible effects of misapplied feedback, eliminates Transient Intermodulation Distortion, and results in a smoother, tighter overall sound.

### 2 Ohm Load Stability:

Powerful transistors and a massive power supply, coupled with Luxman's advanced technology, have resulted in this receiver's 2 Ohm Load Stability. Designed to be stable with even two pairs of 4 Ohm speakers, sophisticated circuits protect the speakers and the receiver while in operation.

### ServoFace:

The most refined look in home audio today. Press the power

switch on and the flush Servo-Face faceplate slides back to reveal a full array of controls and adjustments. Press the power switch off and the faceplate slides flush again, creating a smooth, even surface which minimizes the accidental altering of the set adjustments.

### Two-Way Variable Loudness Control:

This unique and exclusive Luxman feature applies loudness compensation (bass and treble boost, or bass boost only, at low listening levels) in direct proportion to the volume control setting. It allows you to custom tailor the loudness setting for your particular listening and room conditions. The Loudness Volume Control affects low frequencies only, in the center position. Above that, it tailors both low and high frequencies.

### Peak Power Indicator:

A useful and easy-to-read method of determining peak power levels during use. The LEDs respond instantaneously to any signal, but delay time is extended to give you ample time to read them.

### Digital Synthesized Tuner Section:

The quartz-referenced computer tuning system locks onto the exact frequency desired and displays it digitally. This advanced tuning system results in very low distortion, no drift, and the most accurate FM tuning available.

### Computer Analyzed Tuning (CAT):

A fully automatic computer circuit selects the best combination of filters and circuits for optimum FM reception. No adjustment is ever necessary by the user to correct for conditions such as adjacent station interference.

### 24-Station Preset Memory:

Luxman's computerized LSI (Large Scale Integrated) circuit incorporates up to 24-station preset capability. This 16 FM and 8 AM station memory bank provides your favorite FM or AM station at a touch.

### Memory Scan:

By pushing the memory scan selector, this circuit scans the preset stations (FM or AM) and plays each station for five seconds.

### Detachable AM Loop Antenna



An ideal system in combination with the RX-101 is the Luxman PX-101 Turntable and KX-101 Cassette Deck.

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