

LR-90090
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The LR-9090

90 Watts of Power Plus Dolby FM Reception

- 90 Watts RMS
- Mike Mixing
- Dolby FM
- Convenience Controls

The Powerhouse LR-9090 AM/FM/Stereo FM and Dolby FM receiver has the most up-to-the-minute features: dual tuning meters, a stereo program indicator and positive phase-lock-loop circuitry and multiplex filtering. The FM Dolby noise reduction system enables you to get the most from the new Dolby broadcasts.

The Powerhouse LR-9090 has the most power we've ever offered. And we've added features you've never had on any receiver. The LR-9090 has a mike mixing feature that turns the 9090 into a mixing studio. Combine live mike input with other sources to get balanced recordings. The dual tape monitors have Lafayette's tape dubbing feature.

The input section of the advanced LR-9090 provides two phono and two tape inputs for the kind of versatility that means this receiver is ahead of its time.

The convenience controls enable you to get the most from your system. The tone defeat switch lets you hear the sound direct from the source, but when you want to tailor the sound use the separate detent controls for volume, balance and base, treble plus midrange. Bass and treble controls have dual range turnovers. There are dual range filters for high and low frequencies. Convenience controls also include audio mute, loudness switches and push/connect terminals for up to 3 pairs of speakers.

The LR-9090 combines power, features and control to make it the working heart of your stereo system. The LR-9090 can take you as far into music as you want to go.

Amplifier Section

POWER OUTPUT: 90 watts per channel minimum RMS. Both channels driven at 8 ohms from 20-20,000 Hz with no more than 0.1% T.H.D.

TOTAL HARMONIC DISTORTION: 0.1% at rated output

HUM AND NOISE: Aux, -80 dB; Tape Play, -80 dB; Mag Phono, -65 dB (Low sensitivity), -60 dB (High sensitivity)

INPUT SENSITIVITY (for rated output): Mag Phono, 2.5 mV (Hi), 5.0 mV (Lo); Aux, 150 mV; Tape Play A, 150 mV; Tape Play B, 150 mV; Mic x 2, 6 mV

MAXIMUM INPUT VOLTAGE: Aux, 10 V; Mag Phono, 180 mV (Hi), 360 mV (Lo); Tape Play, 10 V; Mic x 2, 420 mV

TONE CONTROL RANGE: Bass, ± 10 dB (50 Hz/100 Hz), Turnover frequency, 250 Hz/500 Hz; Midrange, ± 6 dB (1 KHz); Treble, ± 10 dB (2.5 KHz/5 KHz), Turnover frequency 10 KHz/20 KHz

TONE CONTROL SWITCH: Switchable flat and variable

AUDIO MUTE: -20 dB

LOUDNESS SWITCH: 50 Hz, +12 dB; 10 KHz, +3.5 dB

HIGH FREQUENCY FILTER (-3 dB): 7 KHz, 12 KHz/12 dB Oct.

LOW FREQUENCY FILTER (-3 dB): 15 Hz, 40 Hz/12 dB Oct.

TAPE OUTPUT LEVEL: 0.15 V output at rated input sensitivity

WEIGHT: 40 lbs.

FM Section

USABLE SENSITIVITY**: Mono, 10.3 dBf; Stereo, 21.0 dBf

IHF ('58) SENSITIVITY**: Mono, 1.8 μ V

50 dB QUIETING SENSITIVITY**: Mono, 16.5 dBf; Stereo, 39.3 dBf

SELECTIVITY (alternate channel)**: 80 dB

CAPTURE RATIO*: 1.25 dB

FM DISTORTION*: 1 KHz, 0.2% (mono); 0.4% (stereo)

STEREO SEPARATION: 1 KHz, 40 dB

FREQUENCY RESPONSE (30 Hz to 15 KHz)*: +0.5 dB, -1.5 dB

SIGNAL NOISE RATIO*: 72 dB (mono); 67 dB (stereo)

MUTING THRESHOLD**: 14 dBf

SPURIOUS RESPONSE REJECTION**: 90 dB

IF REJECTION**: 90 dB

IMAGE REJECTION**: 80 dB

TAPE OUTPUT LEVEL*: 0.77 volts

ANTENNA: 75 ohms unbalanced and 300 ohms balanced input for external antenna

*At 98 MHz, 65 dBf input signal, 100% mod.

**At 98 MHz

AM Section

SENSITIVITY (IHF)**: 20 μ V (ant terminal)

IMAGE REJECTION: 60 dB at 600 KHz

SELECTIVITY (alternate channel)**: 45 dB

AUDIO FREQUENCY RESPONSE*: Up to 3700 Hz, -5 dB

SIGNAL NOISE RATIO*: 45 dB

TAPE OUTPUT LEVEL*: 0.3 volts

ANTENNA: Built-in adjustable ferrite bar, plus provision for external antenna

*At 1 MHz, 1 mV input signal, 30% mod.

**At 1 MHz

Lafayette