

LX

*Power Amplifiers*

- > 200 watts per channel, capable of driving 2 ohm loudspeaker impedances
- > Bridgeable 400 watt channels compatible with 4 ohm loudspeaker impedances
- > Oversized toroidal power transformer with low DC resistance and advanced thermal protection
- > High power supply voltage for extra output headroom
- > Four custom-designed, hand-graded output transistors per channel
- > Selectable XLR, RCA, or 1/4-inch T/R/S inputs
- > Stable with mismatched, reactive, and unusual loads
- > JTS thermal protection
- > Quiet, microprocessor-controlled forced-air cooling
- > Loudspeaker protection against DC and frequencies below 10Hz
- > Protection against electrical and component failures, short circuits, wiring faults, and internal errors
- > THX Ultra Certification
- > Heavy-duty, gold-plated outputs
- > Trigger input for power control from connected components
- > Ground-lift switch
- > Multi-color channel status LEDs
- > Optional rack mount kit

Designed to exacting standards, the LX-7 and LX-5 provide top performance and power even under the most rigorous operating conditions. With extensive protection circuitry, they deliver maximum performance without risking failure. The strong industrial design makes these amplifiers perfect companions for Lexicon processors and disc players.

The LX amplifiers deliver ample power in a compact package. With individual amplifier cards, each channel drives an impressive 200 watts into 8 ohms, and is stable into 2 ohms. Bridgeable architecture makes it possible to drive even higher-power outputs, combining up to four 200-watt channels into two imposing 400-watt channels. Each 200-watt channel is capable of driving loudspeaker impedances of 2 ohms and above, while each 400-watt channel can drive impedances of 4 ohms and above. Massive toroidal power transformers and several oversized capacitors allow the amplifiers to retain ample power reserves even when all channels are delivering maximum output.

Following the Lexicon design philosophy of flat frequency response, low distortion, and high signal to noise ratio, the LX amplifiers deliver the finest reproduction of extreme music and film soundtracks with exceptional fidelity. Selectable balanced (XLR), unbalanced (RCA), and 1/4-inch Tip/Ring/Sleeve inputs and four custom-designed, hand-graded output transistors per channel allow them to reproduce the subtlest sonic details with stunning clarity and dynamic range. Heavy-duty, gold-plated output connectors allow the LX amplifiers to accommodate a wide range of loudspeaker connectors, including bare wires, banana plugs, and spade connectors. A ground-lift switch is also available to minimize the audible hum that can result from multiple grounding paths.

To protect themselves and other components in the system, the LX-7 and LX-5 automatically deactivate if device failures, short circuits, wiring faults, or other internal faults occur. DC protection also prevents DC and other frequencies below 10Hz from reaching the loudspeakers. Dedicated multi-color LEDs on the front panel provide instant channel status information.

Sophisticated Junction Temperature Simulation (JTS) thermal protection uses an internal processor to predict output transistor temperatures. Unlike similar technologies, JTS combines the current voltage of each output transistor with heat sink temperatures to arrive at an accurate temperature prediction. As a result, JTS prevents overheating before it occurs. In addition to JTS, the LX amplifiers feature thermal protection for each channel and the main power transformer. If heat sink or main power transformer temperatures exceed a certain level, the corresponding channel or the main power transformer deactivates until temperatures return to within a normal operating range.

A trigger input for power control from connected components and an optional rack mount kit make the LX-7 and LX-5 easy to integrate into any home theater system.



# LX Specifications

## Audio Inputs

LX-7	Seven RCA, seven XLR (including 1/4-inch Tip/Ring/Sleeve)
LX-5	Five RCA, five XLR (including 1/4-inch Tip/Ring/Sleeve)

## Audio Outputs

LX-7	Seven pairs of heavy-duty, gold-plated binding posts
LX-5	Five pairs of heavy-duty, gold-plated binding posts

## Performance

Amplifier performance specifications are identical in INDIVIDUAL and (BRIDGED) Modes, with the exception of Output Power and Minimum Speaker Impedance. (BRIDGED) Mode includes channels 1 & 2 and 3 & 4 only.

Output Power	200W at 8Ω, all channels driven 20Hz to 20kHz 400W at 8Ω, (BRIDGED)
Minimum Speaker Impedance	2Ω, INDIVIDUAL Mode 4Ω, (BRIDGED) Mode
Frequency Response	20Hz to 20kHz ±0.1dB; 10Hz to 100kHz +0.5/-3dB
THD	Below 0.02%, at 200W 8Ω, all channels driven, 20Hz to 20kHz
Signal-to-Noise Ratio	111dB 22kHz bandwidth, balanced inputs 109dB 22kHz bandwidth, unbalanced inputs (Ref 200W at 8Ω)
IM Distortion	Below 0.03% at 200W, 8Ω

Crosstalk	-80dB at 1kHz, minimum
Damping Factor	250 at 20Hz, minimum
Input Sensitivity	2V in for 100W out at 8Ω, balanced inputs 1V in for 100W out at 8Ω, unbalanced inputs
Input Impedance	20kΩ, balanced; 10kΩ, unbalanced
Gain	23dB, balanced; 29dB, unbalanced

## Other

Trigger Input	12V DC +/- 10%
Power Requirements	120V 60Hz 20A (Domestic); 230V 50Hz 12.5A (Export)
Dimensions	
Height (with feet)	5.65" (144mm) (3U without feet)
Width	17.3" (440mm)
Depth	19" (483mm)
Weight	
LX-7	56lbs (25.4kg)
LX-5	52lbs (23.6kg)
Rack Mounting	Optional brackets are available for installing either amplifier in a standard 19-inch equipment rack (three rack units required).

Specifications subject to change without notice.

