

CX

*Power Amplifier*

- > 140 watts per channel, capable of driving 2 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 balanced or unbalanced inputs
- > Stable with mismatched, reactive, and unusual loads
- > Thermal protection for each channel
- > Loudspeaker protection against DC and frequencies below 10Hz
- > Protection against electrical and component failures, short circuits, wiring faults, and internal errors
- > THX Ultra2 Certification
- > Heavy-duty, gold-plated output connectors
- > Trigger input for power control from connected components
- > Separate ground-lift switch for each channel
- > Multi-color channel status LEDs
- > Optional rack mount kit

Based on Lexicon's reference-quality LX Power Amplifiers, the CX-7 and CX-5 represent a lower-output version of their award-winning counterparts. The CX amplifiers have THX Ultra2 certification and the same gorgeous industrial design as the other products in the Lexicon line - they are a beautiful complement to any home theater.

Available with seven or five channels, the CX amplifiers are designed with massive toroidal transformers and several oversized capacitors, allowing them to retain ample power reserves even when all channels are delivering maximum output. Each channel uses four custom designed, hand-graded output transistors to drive 140 watts into 8 ohms. They are compatible with loudspeaker impedances of 2 ohms and above.

The CX amplifiers feature a convection cooling system, which results in ultra-quiet performance. An extensive protection system also makes them extremely reliable. Thermal protection monitors the temperatures of the chassis, main power transformer, and heat sinks, deactivating channels that exceed safe operating temperatures. Current protection limits the quantity of current delivered to the output transistors based on the amount of headroom available. DC protection prevents DC and frequencies below 10Hz from reaching the loudspeakers. In addition, the CX amplifiers offer protection against electrical and device failures, short circuits, wiring faults, and internal errors. To protect themselves and associated components, the amplifiers automatically deactivate if these conditions occur. Dedicated multicolor channel status LEDs on the front panel provide instant notification if dangerous conditions arise.

Each channel includes selectable balanced (XLR) or unbalanced (RCA) inputs. Heavy-duty, gold-plated output connectors allow the CX ampli-

fiers to accommodate a wide-range of loudspeaker connectors, including bare wires, banana plugs, and spade connectors. In addition, a separate ground-lift switch is provided for each channel to help eliminate the audible hum that sometimes results from multiple grounding paths. For even greater flexibility, a rear panel trigger input connector provides power control of the amplifiers from compatible associated components such as the MC-12 and MC-8 Digital Controllers. When one of these Lexicon digital controllers is connected, the power status of the digital controller and the CX amplifier can be synchronized for added convenience.

The CX-7 and CX-5 achieve the highest standards of power and performance, delivering superior reproduction of music and film soundtracks. An impressive combination of 140-watt channels, selectable balanced or unbalanced inputs, and advanced protection features make the CX amplifiers capable of handling all but the most demanding applications.



# CX Specifications

## Audio Inputs

CX-7	Seven RCA, seven XLR
CX-5	Five RCA, five XLR

## Audio Outputs

CX-7	Seven pairs of gold-plated binding posts
CX-5	Five pairs of gold-plated binding posts

## Performance

Output Power	140W at 8Ω, all channels driven 20Hz to 20kHz
Minimum Speaker Impedance	2Ω
Frequency Response	20Hz to 20kHz $\pm 0.1$ dB; 10Hz to 100kHz +0.5/-3dB
THD	Below 0.02% at 140W, 8Ω all channels driven 20Hz to 20kHz
Signal-to-Noise Ratio	110dB, 22kHz bandwidth, unweighted (Ref 140W at 8Ω)
IM Distortion	Below 0.03% at 140W, 8Ω
Crosstalk	-80dB at 1kHz, minimum
Damping Factor	850 at 20Hz, minimum
Input	2V input for 100W output at 8Ω, balanced inputs

Sensitivity 1V input for 100W output 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 15A (Domestic); 230V 50Hz 10A (Export)

### Dimensions

Height (with feet) 6.09" (155mm)

Width 17.3" (439mm)

Depth 19.75" (502mm)

### Weight

CX-7 52.8lbs (23.8kg)

CX-5 47.1lbs (21.2kg)

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.

