



Lexicon DD-8 Multi-room Amplifier | **lexicon**
by HARMAN

Lexicon® DD-8 Amplifier

The Lexicon DD-8 redefines the state-of-the-art for multi-room distributed audio applications. Taking advantage of HARMAN's pioneering DriveCore™ amplifier technology, the DD-8 delivers eight channels of 125W each in a chassis only one rack space high. The foundational DriveCore circuitry seamlessly integrates the amplifier drive stage into the power output stage fusing everything into a chip the size of a dime. With five patents applying to the advanced feedback, modulation and output stage technologies, DriveCore's front-end drive circuits leverage the inherent efficiencies of Class D designs while delivering the audiophile performance of advanced AB designs.

The 90%+ efficiency of the DriveCore stage means everything stays cool and no fan is required so your equipment racks stay ultra-quiet. Plus the DD-8 meets the future 0.5W low power consumption ratings and in fact uses less power during normal operation than many traditional amplifiers do at idle. While this much efficiency and power is indeed impressive, it is nothing without control and in this respect the DD-8 delivers with a full-complement of features including local and bus inputs, stereo/mono selection, channel output level controls and system triggers.

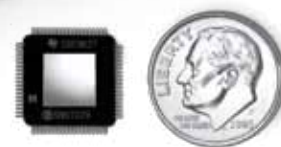
More Power. Less Space.
With the DD-8, Small is the New Big.





DriveCore™ Amplifier Technology

Establishing new standards in distributed audio sound quality, the proprietary and multi-patented DriveCore amplifier technology inside the DD-8 was developed by HARMAN as a joint venture with Texas Instruments. A HARMAN DriveCore amplifier circuit is significantly less complex than a traditional Class D amplifier circuit. DriveCore seamlessly integrates the amplifier drive stage into the power output stage effectively replacing the 500+ discrete components of a typical Class D design with a single silicon circuit no larger than a dime. This breakthrough technology is what allows the DD-8 to deliver 1000 watts of crystal-clear audio from a cool-running amplifier that weighs less than 10 pounds.



Each of the DD-8's four incredibly small DriveCore IC's deliver 2 x 125 watts

16 Rack
Spaces and
160 lbs.



Vs.

6 Rack
Spaces and
55 lbs.



Distributed Audio. Redefined.

The DD-8 provides more than twice the output power of a typical multi-room amplifier and does so in a chassis only one-third the size and less than one-fifth the weight of a traditional Class-A/B design. The advantages are obvious. With 125 watts of power available at each channel, the DD-8 offers significant amounts of control over the loudspeakers in a system rendering an audio presentation with life-like clarity and dynamic capability and maintaining performance over long cable runs. The one unit rack height and flat-stack capability mean you can get more power in less space saving 10 rack units in a 48-channel system. You'll also take out an average of more than 100 pounds of weight and a significant amount of heat from the system component rack.

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Features

- Multi-patented DriveCore Amplifier Technology
- 8 channels each with 125W into 8-ohms, All Channels Driven
- High-efficiency, Quiet Convection-cooled Design
- Local/Bus RCA Input Selection and Independent Channel Output Level Controls
- 12V Trigger Input/Output and Signal-sensing Channel Inputs
- Power Save Low-power Consumption Standby Mode (Less than 0.5W)
- Front Panel Standby Power Switch and Channel Status with Indicator LED's
- Short-circuit and Thermal Protection Circuitry
- Lightweight Chassis Only One Rack Space (1U) High



DD-8 front panel view



DD-8 rear panel view

General Specifications

Output Power: 125W RMS per Channel into 8 ohm from 20Hz-20kHz

Frequency Response: 20Hz-20kHz +0dB/-1.5dB

Total Harmonic Distortion (THD): Less than 0.05% at Full Rated Power 20Hz-20kHz

Signal-to-noise Ratio: <-105dB Below Rated Full Power A-weighted

Crosstalk: <-70dB @ 1kHz

Input Sensitivity: 1.12 volts for 125W out into 8 ohms

Gain: 29dB

Input Impedance: 100K ohms typical

Trigger Input: 5V minimum-15V maximum DC

Dimensions (H x W x D): 2.1" (w/ feet) /1.7" (w/out feet) x 17.3" x 14.9"

5.4cm (w/ feet) /4.5cm (w/out feet) x 43.8cm x 37.8cm

Weight: 9.2 lbs (4.2 kg)

Power Requirements: 100-240VAC 50/60Hz 190W

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