



Lexicon DD-8+

MULTI-CHANNEL NETWORK AMPLIFIER

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The Lexicon® DD-8+ redefines the state-of-the-art for multi-room distributed audio applications – providing a wide range of tools for exceptional power and flexibility.

The Lexicon® DD-8+ is an advanced multi-channel amplifier with network controlled matrix routing and multi-channel digital signal processing (DSP); that provides a pallet sound shaping controls and system configuration tools. The DD-8+ features award winning DriveCore™ amplifier technology, eight powered channels of 125 watts each, and a chassis of only one rack space height. Featuring ten analog and four stereo digital audio inputs, an ESS Sabre 32 high-resolution DAC, and DSP audio management, plus the ability to configure and control the amplifier from major web browsers.

POWERFUL

The Lexicon® DD-8+ utilizes patented DriveCore™ amplifier technology to deliver plenty of power from a sleek, compact design, while operating with amazing efficiency. With eight channels @125 watts each (all channels driven) the DD-8+ has enough juice to easily drive the most demanding speakers. Powerful DSP including 10-band parametric eq and limiting per channel, preamplifier functionality, along with an audiophile grade hi res 24 bit/192kHz DAC ensures the DD-8+ delivers pristine audio quality in every room.

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™ 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 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, single rack space unit that weighs less than 10 lbs.

FLEXIBLE

With full 10x8 matrix switching and extensive DSP capabilities, the Lexicon® DD-8+ is ideal for multi-room audio, custom-installation and home theater applications. It offers flexible configuration options via a web interface; including the selection of 10 analog and 4 stereo digital inputs as well as mono/stereo selection for each channel output pair. DSP preamplifier functionality includes pink noise generation, bass and treble controls, 10-band fully parametric EQ, as well as limiter, and delay settings. Selectable high-pass and low-pass filters, input trim level with clip indicators, independent output and max volume levels, along with dim and mute function round out the exceptional flexibility of the DD-8+. There are 3 global presets available, signal sensing, and 5–15VDC trigger control ports for complete control.



Each of the four incredibly small DriveCore™ IC's found in the DD-8+ delivers 2 x 125 watts

DYNAMIC

Lexicon® has a rich history in professional digital audio processing, and is found in the vast majority of world class recording studios. This Grammy winning pedigree is evident in the DD-8+ with design elements that reflect the exceptional commitment to superior sound quality that Lexicon is famous for. From the ESS Sabre32, 32-bit Hyperstream DAC with Time Domain Jitter Eliminator, to the extremely accurate EQ, filters and dynamic processing, combined with the super-efficient DriveCore™ amplifier circuitry, the Lexicon® DD-8+ offers unequalled dynamic range, ultra-low distortion, and unmatched audio clarity.



DD8+ amp rack stacks

SENSIBLE

The Lexicon® DD-8+ encompasses HARMAN GreenEdge™ environmentally friendly technology, for low power consumption and low heat emission. The system's high-efficiency, convection-cooled design allows up to five units to be stacked with just a single vent space above. The DD-8+ complies with the half-watt standby power consumption standards, and uses less power during normal operation than most traditional amplifiers do at idle. The amplifier has feedback and protection circuits incorporated into the DriveCore™ chip, and can switch to low-power standby mode when not in use for even lower energy consumption.

HIGHLIGHTS

- Multi-patented DriveCore™ amplifier technology
- 8 x 125W into 8-ohms, all channels driven
- Matrix routing – assigns any and all input sources to any or all outputs
- 10 analog (5 stereo) and 4 stereo digital inputs
- 24-bit/192kHz High-resolution audiophile DAC
- Built-in digital signal processor (DSP) accessible via Ethernet-connected computer
- Independent channel output level, bass, treble, variable HP and LP filters
- Output limiter and time delay control
- Signal Sensing channel inputs & 5 – 15V Trigger Control
- High-efficiency, quiet convection-cooled design
- Update Firmware from webpage
- Compatible with IP control automation systems by Crestron, AMX, Control 4 and Savant
- Ten-band parametric equalizer
- Pink noise generator
- HARMAN GreenEdge™ energy compliance
- Front panel standby power switch with indicator LED
- Front panel channel status indicator LED's
- Short-circuit and thermal protection circuitry
- Feedback and protection circuits
- Lightweight 1U chassis (rack ears included)
- Optional shelf mounting (feet included)

GENERAL SPECIFICATIONS

Output Power

125W RMS per channel into 8 ohms 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

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 (4.2kg)

Power Requirements

100 – 240VAC

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FRONT VIEW



REAR VIEW

Lexicon
by HARMAN

Visit www.lexicon.com for more information.