T \(\) ith the introduction of the world's first **V** V digital processor in 1971, Lexicon became the world leader in digital audio. Since that

time, Lexicon has continuously introduced ground-breaking technology to the audio industry Today, Lexicon processing is heard on over 80% of all recordings, broadcast and film soundtracks and, in the home theater market, Lexicon sound is the acknowledged measure of excellence.

The Lexicon Studio line

products continues this tradition of innovation with a new generation of production tools: high-quality analog conversion, digital connectivity,

> format conversion, signal routing, synchronization, system acceleration and audio DSP — hardware solutions that work with your favorite software.

Focused on the fundamentals superb sound and flawless DSP, the Lexicon Studio line is designed to power your computer system into the future.

Core2 System Specifications

Core2 Analog Inputs

Connectors: Impedance: A/D Dynamic Range:

> Sample Rates: Freq. Response: Crosstalk: THD: Resolution:

Analog Outputs

Connectors: D/A Dynamic Range:

Freq. Response: Crosstalk: Resolution:

Digital Audio Interface Input Connectors:

Output Connectors: Sample Rates: Word Clock Sources:

Computer Interface: Internal Interface: Power Requirements: Bundled Software:

MP-100

Connections: Sample Rates:

Multipin connection to Core2 card Processing: 44.1kHz, 48kHz Stereo pair to the Core2 routing matrix Stereo pair to the Core2 routing matrix

Unbalanced TS 1/4" Phone Jack

105dB typ, 20kHz bandwidth; 107dB typ, A-weighted -18dBV to +14dBV full scale, adjustable

20Hz-20kHz ±0.5dB, ref 1kHz -96dB @1kHz < 0.005%, 20Hz-20kHz

24 Bits Delta-Sigma Conversion Unbalanced TS 1/4" Phone Jack

100dB typ, 20kHz bandwidth; 102dB typ,

150 Ω nominal

+ 8dBV, full scale

< -96 dB @1kHz

24-hit ADAT)

44.1 kHz. 48 kHz

20Hz-20kHz ±1dB, ref 1kHz

24 Bits Delta-Sigma Conversion

Coaxial RCA (24-bit S/PDIF or TTL

Coaxial RCA (24-bit S/PDIF);

44.1 kHz ±2%, 48 kHz ±2%

Lexicon Drivers and Control Panel,

Syntrillium Cool Edit Pro SE™

Word Clock); Optical (24-bit S/PDIF or

Optical (24-bit S/PDIF or 24-bit ADAT)

ADAT, S/PDIF, external TTL Word Clock

33 MHz/32-bit PCI Master/Slave Interface

• 1 Stereo S/PDIF Pair • TOSLINK[™] Optical I/O Pair

8 Channels of ADAT[™] I/O

Core2/MP-100 Features

• Up to 14 Channels In and 18 Channels Out

— 12 x 16 Channels simultaneously

4 Channels of Analog In

8 Channels of Analog Out

• 1 Pair of Optical S/PDIF I/O

• 24-bit A/D and D/A Converters

• Selectable Soft-knee Limiting on every analog input channel

 Optional MP-100 Daughterboard provides all of the features and controls of the Lexicon MPX 100:

> 2 Independent effects configured for Dual Stereo (Parallel), Cascade, Mono Split and Dual Mono

Effects include: Chorus, Flange, Pitch, Detune, Delay, Echo, Rotary, Tremolo, Reverb and Ambience

Core-32 System Specifications



LDI-12T

Audio Inputs:

Impedance:

Crosstalk:

Balanced: female XLR-3 type Unbalanced: RCA type (software selectable) $100k\Omega$, balanced; $50k\Omega$, unbalanced -14 to +18dBu full-scale, balanced -20 to +12dBu full-scale, unbalanced

A/D Performance

Freq. Response: 20Hz-20kHz, ±0.5dB ref 1kHz <-76dB, 20Hz-20kHz <0.005% 20Hz-20kHz

104dB typ, 20kHz bandwidth; 106dB typ, A-weighted Dynamic Range: Resolution:

Audio Outputs: Balanced: male XLR-3 type Connectors: Impedance: Levels:

 600Ω nominal, each side +22dBu full-scale, balanced; +16dBu full-scale, unbalanced

D/A Performance

Freq. Response: Dynamic Range: Resolution:

20Hz-20kHz, ±0.5dB ref1kHz <0.01%, 20Hz-20kHz 94dB typ, 20kHz bandwidth; 97dB typ, A-weighted

Digital Audio Interface Input Connectors:

Output Connectors: Coaxial RCA type (1); Optical TOSLINK (1), System Sample Rates:

Control Interface

assignable as S/PDIF or TOSLINK S/PDIF (IEC-958, CP-340) consumer audio inter-face

Coaxial RCA type (1); Optical TOSLINK (1),

assignable as S/PDIF or TOSLINK

Timecode Input:

Balanced, female XLR-3 type connector, EIA-422; Formats supported @±15%: SMPTE non-drop/drop frame

BNC connector, TTL compatible, unterminated

Alesis ADAT™ Sync: 9-pin D-sub female I/O Machine Control: 9-pin D-sub female connector Host Computer: 68-pin high-density connector **Power Requirements:** 9 VAC, 1A wall transformer

Dimensions: 19.0 x 1.75 x 4.0 in (438 x 45 x 102mm), 19-inch 1U rack mount Weight: 2.5 lbs

Core-32

External Interfaces

60-pin proprietary multi-pin connector and/or 50-pin proprietary multi-pin connector Internal Interfaces

PCI Interface; TBUS daughterboard interface (not on all models); PC-90 daughterboard interface

Data Resolution: 24-bit architecture

Power Requirements: +5v+ 5% **Clock Range:** 44.1 kHz -5% to 48 kHz +5%

12.25 x 3.875 x .0625 in "full length" (PCI)

LX3 Multi-Interface Adapter (for connection of multiple LDI-10T's) **Connections:** Multipin connection to LDI-10T via proprietary Lexicon I DI-10T cable

> **Dimensions:** 5.25 x 2.5 x 1.0 in Weight:

Connections: Multipin connection to Core-32 card Processing: 20-bit

Sample Rates: 44.1kHz, 48kHz

2 Stereo pairs to the Core-32 routing matrix 2 Stereo pairs to the Core-32 routing matrix



LDI-10T

Analog Audio Interface

Audio Inputs: Connectors: Impedance:

Balanced TRS Phone Jacks 50kQ balanced: 25kQ unbalanced Balanced +4 mode, +20dBu full scale Unbalanced -10 mode. +6dBV full scale

A/D Performance

Freq. Response: Crosstalk: Dynamic Range: Resolution: Audio Outputs: Connectors: Impedance: 6000 each side balanced

20Hz-20kHz ±0.5dB, ref 1kHz -96dB @ 1kHz <0.005%, 20Hz-20kHz 102dB typical, A-weighted 24 Bits Delta-Sigma Conversion Balanced TRS Phone Jacks

+26dBu full scale, balanced

D/A Performance

20Hz=20kHz ±0.5dB, ref 1kHz Freq. Response: <0.005%, 20Hz-20kHz Dynamic Range: 105dB typical, A-weighted Resolution: 24 Bits Delta-Sigma Conversion

Coaxial RCA type (1)

Digital Audio Interface Input Connector: Output Connector:

Coaxial RCA type (1) S/PDIF (IEC-958, CP-340) consumer audio inter-face System Sample Rates:

Control Interfaces

Time Code Input: Balanced TRS Phone Jack, EIA-422; Formats supported: 24, 25, 30 drop/non-drop Power Requirements: 100-240 VAC 50-60Hz 15W 3-pin IEC connector

Weight: 4.5 lbs

Dimensions: 19.0 x 1.75 x 6.6 in (483 x 45 x 165mm) 19-inch 1U rack mount



HEARD IN ALL THE RIGHT PLACES

A Harman International Company

Lexicon, Inc., 3 Oak Park, Bedford, MA 01730-1441 • Tel: (781) 280-0300 Fax: (781) 280-0490 • Email: info@lexicon.com Web: www.lexicon.com

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Printed in U.S.A. DTP/899/20M



Lexicon Studio Desktop Products

Run more tracks, more plug-ins AND the world's best reverb and effects all without impacting your computer's performance

esktop audio production requires computing power. Semi-pro cards not only sacrifice audio quality, they consume the power your CPU needs for optimal performance — leaving you with a power-starved computer that can't keep up with the demands of professional recording. Lexicon Studio hardware

solves this problem by taking over the most CPU-intensive tasks — giving you superior audio and more processing power. Whether you're just getting started, or investing in a system that will grow along with your production needs, Lexicon Studio offers the I/O you need and the audio quality you can only get from Lexicon.

Core2 Desktop Audio System

Core2 • MP-100

Complete, powerful and affordable interfacing for your computer

Core2

The Core2 system provides connections for four channels of analog in, eight channels of analog out, eight channels of ADAT™ digital I/O, and a stereo S/PDIF pair. TOSLINK connectors (mounted directly on the Core2 card) can also be used for S/PDIF connections which require an optical I/O, allowing simultaneous format conversion between, for example, two DATs, one with coaxial (RCA) and one with optical connections.

Beyond powerful I/O, audio performance is the highest quality, with ultra wide-range 24-bit A/D and D/A converters with selectable dbx Type IV $^{\text{TM}}$ soft-knee limiting on every input channel to simulate tape compression and provide 4dB of improved headroom.

MP-100

The MP-100 incorporates all of the effects and controls from Lexicon's MPX 100 Dual Channel



Effects Processor on a snap-on card. This option gives you true stereo dual-channel processing with hundreds of presets with classic reverb programs such as Ambience, Plate, Chamber and Inverse, as well as Tremolo, Rotary, Chorus, Flange, Pitch, Detune, 5.7 second Delay and Echo. Dual-channel processing gives you two independent effects in a variety of configurations: Dual Stereo (Parallel), Cascade, Mono Split and Dual Mono.

Core-32 Desktop Audio System

Core-32 · LDI-12T · LDI-10T · LX3 · PC-90

Designed around the Core-32 PCI card, this system gives you I/O options, DSP signal routing and synchronization for your software and world-class reverb – without burdening computer performance

Core-32

The Core-32 is an expandable hard-disk recording system on a full-size PCI card. It has a full 24-bit audio path, capable of supporting up to 32 simultaneous voices as sources or destinations from the host system – with the I/O to do it the way you want. Select the LDI-12T *and/or* up to three LDI-10T interfaces, and an effects card that brings the classic PCM 90 reverbs to your desktop.

LDI-12T

The LDI-12T interface provides superior A/D conversion at both professional and consumer input levels. TOSLINK™ optical input and output connections for any ADAT™-compatible device provide eight channels of digital I/O. ADAT sync connectors ensure accurate system clocking, synchronization and machine control. A pair of coaxial RCA connectors provide two channels of S/PDIF digital I/O.

The TOSLINK connectors can also be used for S/PDIF connections which require an optical I/O, allowing simultaneous format conversion between, for example, two DATs, one with coaxial (RCA) and one with optical connections.

XLR balanced Time Code inputs,

in conjunction with the Core-32 on-board variable oscillator (VSO), lock to incoming Time Code and maintain sync. A dedicated BNC input allows clock synchronization to popular digital mixers.

S/PDIF or ADAT connections can be used for either clock master or slave. A 9-pin connector on the rear panel lets you connect to video and audio devices capable of Sony 9-pin serial control.

LDI-10T

The LDI-10T interface features ten simultaneous input/output channels: eight analog (TRS balanced 1/4") and two digital S/PDIF (Coaxial); switchable input gain; 24-bit A/D and

D/A conversion and a 1/4" Time Code Input.

An optional LX3 allows connection of as many as three LDI-10Ts, for 24 analog and 6 S/PDIF channels — all from a single Core-32 card.

PC-90

The PC-90 Reverb Card uses the core processing engine of Lexicon's award-winning PCM 91 to add uncompromised reverb and processing power to the Core-32 system. This option gives you two stereo hardware reverbs with all of the sonic quality you expect from Lexicon, controllable from your software interface.

Five classic algorithms: Chamber, Inverse, Room, Ambience and Concert Hall can be loaded into either of two reverb engines — each with its own stereo in/stereo out routing. One hundred presets exploit the full dynamic power of the PC-90.



























