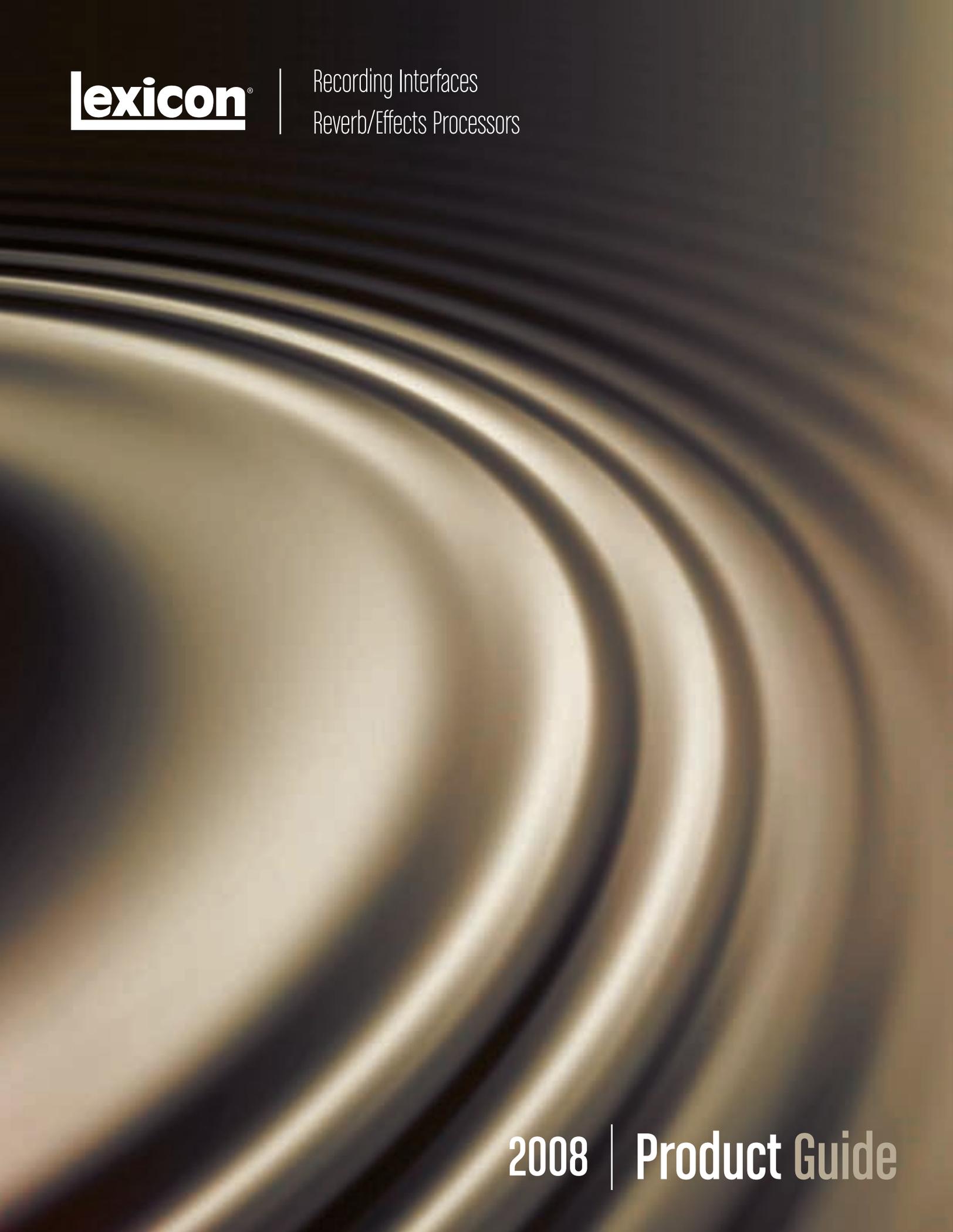


The Lexicon logo is rendered in a bold, white, sans-serif font. The letters are thick and closely spaced, with a registered trademark symbol (®) at the top right of the word. The logo is positioned in the upper left corner of the page.

**lexicon**®

Recording Interfaces  
Reverb/Effects Processors

The background of the entire page is an abstract, flowing pattern of concentric, curved lines. The lines are rendered in shades of dark brown, black, and light beige, creating a sense of depth and movement. The pattern resembles a close-up of a vinyl record or a series of ripples in water.

2008 | **Product Guide**

# Touchstone Heritage

Lexicon® occupies a unique position as a leading innovator in both professional and consumer audio industries. Since the release of the first digital reverb in 1971, Lexicon has stood at the forefront of digital audio with a reputation as a manufacturer of exceptional professional audio and home theater products and an inventor of new technologies. Years of research, development, and experience allow us to continue expanding the boundaries of the listening experience.

Our professional products are prominent in the creation of worldwide music, television and film productions. These products have won numerous awards, including an Emmy® and numerous TEC awards, most recently a TEC Hall of Fame award for the Lexicon Delta T-101, the world's first digital delay. Lexicon processors have been embraced as the standard in professional signal processing since the introduction of the 480L Digital Effects Processor, which has retained tremendous popularity for the past 22 years. It has since been replaced as the standard in professional signal processing by the 960L Multi-channel Digital Effects System, which has itself garnered an impressive following of producers, artists, and engineers.

Growing demand for proprietary Lexicon technologies has led to its appearance in numerous applications – with dramatic results. Our processing is relied upon to enhance the sound of prestigious live halls and venues. Our critically acclaimed LOGIC7® technologies have



been successfully incorporated in several world-renowned automobiles, including select models from BMW® and Mercedes®. LOGIC7 technologies have also been licensed to other audio companies such as harman/kardon® and AKG®.

Knowingly or unknowingly – you experience Lexicon products and technologies on a daily basis. Chances are that Lexicon processing was involved in the television program you watch at home, the film you see at the cinema, or the song you listen to on the radio. From the initial tracks to your listening room or automobile, Lexicon is part of the process that brings these recordings to life. Our commitment to the audio professional and content delivery ensures an unbroken chain between the artist and the audience. Now hear this...



## Content

### RECORDING INTERFACES

OMEGA

LAMBDA

ALPHA

### REVERB / EFFECTS PROCESSORS

MX200

MX300

MX400

PCM81

PCM91

PCM96

960L

Take Your Recording Studio.  
To The Next Level.



### LEXICON DESKTOP STUDIOS

A complete recording solution in a small, portable package. Each Desktop Recording Studio includes a compact I/O mixer and Steinberg® Cubase® LE4 recording software, plus world-renowned Lexicon® reverbs via the Pantheon™ VST plug-in. Front panel controls let you adjust Direct/Playback mix and input levels, toggle monitoring between stereo and mono, plug in an instrument directly, and monitor with headphones.

## Omega

The heavy hitter of the three (but still compact!), the Omega Studio™ features eight inputs and can record up to four tracks at once. Omega is also the only unit in the family that includes S/PDIF digital I/O as well as the standard TRS and XLR. Phantom power is available for condenser mics. Omega's headphone monitoring jack is ¼" (compared to ⅛" on the other two units). Omega is powered with an included AC power adaptor.



## Lambda

With four inputs and two outputs, Lambda is the happy medium. The Lambda Studio™ can record two tracks at once, and features phantom power for condenser mics, MIDI In/Out, and a ⅛" headphone monitoring jack. Lambda is USB-powered, so it works wherever your computer happens to be.



## Alpha

The smallest and simplest of the three, the Alpha Studio™ is perfect for solo artists recording one track at a time. The Alpha is USB-powered, so no "wall wart" power supply is necessary – just your computer. Alpha also features a ⅛" headphone monitoring jack and two unbalanced RCA line level outputs (in addition to its ¼" balanced/unbalanced outputs).



### Omega



### Lambda



- 1 Mic Preamp with phantom power
- 2 Balanced/unbalanced line level inputs
- 3 Balanced/unbalanced line level outputs
- 4 Unbalanced RCA line level outputs
- 5 Digital S/PDIF inputs and outputs
- 6 Channel Insert
- 7 -20dB pad switch
- 8 MIDI In/Out
- 9 USB Port

### Alpha



## Multi-Track Recording Software and Effects Plug-in Included!



From the company that brought you the world's first digital reverb comes the world's



best VST reverb plug-in: Lexicon Pantheon. Featuring many of the same algorithms that can be found on legendary recorded music and movie soundtracks, Pantheon

delivers mega-studio quality signal processing to your home, with 6 reverb types and 35 factory presets. Each reverb type has 16 editable parameters to let you create your own variations on the legendary "Lexicon Sound."

Steinberg® is a world leader in computer-based recording. From the first idea to complete compositions, Cubase® is the production suite of choice for musicians and producers looking for a creative way to realize their projects. Steinberg's intuitive cross-platform Cubase LE4 features 48 audio and 64 MIDI tracks with full automation, 2 inserts and 4 aux sends per channel, up to 8 VST instruments, and supports VST System Link and ReWire 2.



Cubase LE 4 communicates seamlessly with the Lexicon USB I/O mixers through our custom-written ASIO drivers to achieve a

completely integrated, easy-to-use recording solution that includes all of the modules that you need to track, edit and mix your masterpiece.

	OMEGA STUDIO™	LAMBDA STUDIO™	ALPHA STUDIO™
Inputs / Buses / Outputs	8 x 4 x 2	4 x 2 x 2	2 x 2 x 2
Simultaneous recording tracks	4	2	2
Microphone Preamps	2	2	1
Hi-Z Instrument Input	Yes	Yes	Yes
Recording software included	Yes	Yes	Yes
Inserts	2	2	0
Power Supply	External	Bus-powered	Bus-Powered
Digital I/O	S/PDIF	N/A	N/A

**Omega Studio™ Specifications****MICROPHONE INPUTS**

Connectors	Two female XLR Pin 2 Hot
Impedance	600 Ohms balanced
Phantom Power	+48 Volt DC
Gain	+50 dB
EIN (150Ω source)	-120 dB A-weighted @ 50 dB gain
Frequency Response	+0, -0.2 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.005%, 20Hz - 20kHz

**INSERT INPUTS**

Connectors	Two ¼" TRS balanced or unbalanced
Send Level (tip)	+19 dBu maximum
Max Rtrn Level (ring)	+19 dBu maximum

**LINE INPUTS**

Connectors	Four ¼" TRS balanced or unbalanced
Impedance	20k Ohms balanced 10k Ohms unbalanced
Max Input Level	+22 dBu
Frequency Response	+0, -0.25 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.009% A/D, 20Hz - 20kHz

**INSTRUMENT INPUT**

Connectors	One ¼" mono jack
Impedance	1 MΩ unbalanced
Max Input Level	+19 dBu
Frequency Response	+0, -0.25 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.0125% A/D
Crosstalk	<-74dB any input or output to any recording channel, 20Hz-20kHz <-95dB at 1kHz typical

**LINE OUTPUTS**

Connectors	Two ¼" TRS balanced or unbalanced
Level	+19 dBu maximum
Impedance	110 Ohms
Headphone Output	One ¼" stereo jack 100mW per channel @ 50 Ohms

**DIGITAL INPUT AND OUTPUT**

Connectors	Dual RCA phono
Format	S/PDIF 24-bit
D/A - A/D Sample Rate	44.1kHz or 48kHz, determined by DAW

**DYNAMIC RANGE 20Hz-20kHz**

A/D (24 Bit)	104 dB typical, A-weighted
D/A (24 Bit)	105 dB typical, A-weighted
A/D/A (24 Bit)	103 dB typical, A-weighted
Analog Path	118 dB typical, A-weighted

**CONTROL INTERFACE**

USB	Version 1.1, Type B socket; 1.1 hubs are not supported
MIDI	In/Out 5-pin DIN

**GENERAL**

Power	PS0913-B 9VAC adapter requires 18 Watts @ 120V
Size (W/H/D)	4.625" W x 7.25" H x 7.75" D (118mm x 184mm x 197mm)
Weight	2.65 lbs. (1.2 kg)

**Lambda Studio™ Specifications****MICROPHONE INPUTS**

Connectors	Two female XLR Pin 2 Hot
Impedance	600 Ohms balanced
Phantom Power	+48 Volt DC
Gain	+44 dB
EIN (150Ω source)	-120 dB A-weighted @ 44 dB gain
Frequency Response	+0, -0.5 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.005%, 20Hz - 20kHz

**INSERT INPUTS**

Connectors	Two ¼" TRS balanced or unbalanced
Send Level (tip)	+19 dBu maximum
Max Rtrn Level (ring)	+19 dBu maximum

**LINE INPUTS**

Connectors	Two ¼" TRS balanced or unbalanced
Impedance	20k Ohms balanced 10k Ohms unbalanced
Max Input Level	+13 dBu
Frequency Response	+0, -0.5 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.009% A/D, 20Hz - 20kHz

**INSTRUMENT INPUT**

Connectors	One ¼" mono jack
Impedance	1 MΩ unbalanced
Max Input Level	+8.5 dBu
Frequency Response	+0, -0.25 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.0125% A/D
Crosstalk	<-74dB any input or output to any recording channel, 20Hz-20kHz <-95dB at 1kHz typical

**LINE OUTPUTS**

Connectors	Two ¼" TRS balanced or unbalanced
Level	+16 dBu maximum
Impedance	1k Ohms bal, 500 Ohms unbal.
Headphone Output	One ⅛" stereo jack 25mW per channel @ 50 Ohms

**DIGITAL INPUT AND OUTPUT**

Connectors	N/A
Format	N/A
D/A - A/D Sample Rate	44.1kHz or 48kHz, determined by DAW

**DYNAMIC RANGE 20Hz-20kHz**

A/D (24 Bit)	96 dB typical, A-weighted
D/A (24 Bit)	100 dB typical, A-weighted
A/D/A (24 Bit)	95 dB typical, A-weighted
Analog Path	109 dB typical, A-weighted

**CONTROL INTERFACE**

USB	Version 1.1, Type B socket; 1.1 hubs are not supported
MIDI	In/Out 5-pin DIN

**GENERAL**

Power	USB Bus-powered
Size (W/H/D)	3.4" W x 6.5" H x 6.5" D (86mm x 165mm x 165mm)
Weight	1.92 lbs. (0.86 kg)

**Alpha Studio™ Specifications****MICROPHONE INPUTS**

Connectors	Two female XLR Pin 2 Hot
Impedance	600 Ohms balanced
Phantom Power	N/A
Gain	+44 dB
EIN (150Ω source)	-115 dB A-weighted @ 50 dB gain
Frequency Response	+0, -0.5 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.005%, 20Hz - 20kHz

**INSERT INPUTS**

Connectors	N/A
Send Level (tip)	N/A
Max Rtrn Level (ring)	N/A

**LINE INPUTS**

Connectors	Two ¼" TRS balanced or unbalanced
Impedance	20k Ohms balanced 10k Ohms unbalanced
Max Input Level	+12 dBu
Frequency Response	+0, -0.5 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.009% A/D, 20Hz - 20kHz

**INSTRUMENT INPUT**

Connectors	One ¼" mono jack
Impedance	1 MΩ unbalanced
Max Input Level	+8.5 dBu
Frequency Response	+0, -0.25 dB 20 Hz - 20kHz, ref. 1kHz
THD+N	<.0125% A/D
Crosstalk	<-74dB any input or output to any recording channel, 20Hz-20kHz <-95dB at 1kHz typical

**LINE OUTPUTS**

Connectors	Two ¼" TRS balanced or unbalanced, Two RCA jacks
Level	+16 dBu maximum
Impedance	1k Ohms bal, 500 Ohms unbal.
Headphone Output	One ⅛" stereo jack 20mW per channel @ 50 Ohms

**DIGITAL INPUT AND OUTPUT**

Connectors	N/A
Format	N/A
D/A - A/D Sample Rate	44.1kHz or 48kHz, determined by DAW

**DYNAMIC RANGE 20Hz-20kHz**

A/D (24 Bit)	96 dB typical, A-weighted
D/A (24 Bit)	100 dB typical, A-weighted
A/D/A (24 Bit)	95 dB typical, A-weighted
Analog Path	109 dB typical, A-weighted

**CONTROL INTERFACE**

USB	Version 1.1, Type B socket; 1.1 hubs are not supported
MIDI	In/Out 5-pin DIN

**GENERAL**

Power	USB Bus-powered
Size (W/H/D)	6.75" W x 1.6" H x 6.5" D (171mm x 40mm x 165mm)
Weight	1.1 lbs. (0.49 kg)

All specifications subject to change

You Don't Follow The Crowd.

You Play To Them.



### MX SERIES PROCESSORS

The MX series adds world-renowned Lexicon reverbs and effects to your studio recordings and your live performance. Multiple processors let you combine different reverbs and effects to suit your needs. Multiple effects routing options (easily configured on the front panel) and MIDI In and Thru make each MX unit a very versatile addition to any rack. All parameters of every reverb, delay and dynamic effect are available inside any VST® or AU compatible DAW program via USB. The included MX-Edit™ Librarian software lets you store and manage your presets from your computer as well.



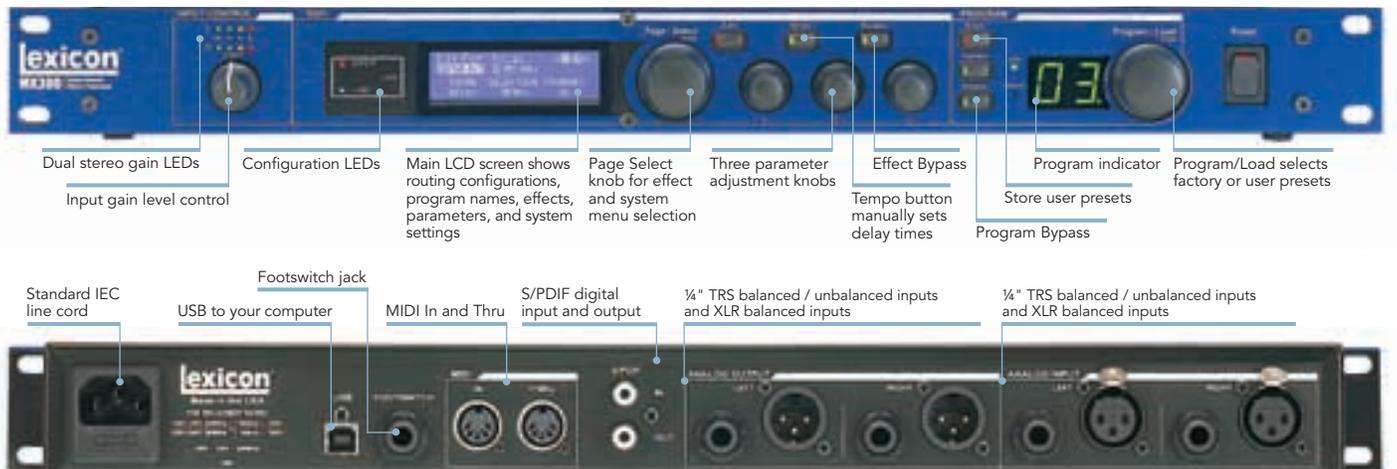
# MX200

With two processors, the MX200 lets you apply or combine two reverbs or effects to your recording at the same time, in one of four routing options. The front panel Matrix displays which reverbs and effects are active, and all editing functions require only a single button push or turn of a knob. Independent controls for each processor/effect provide instant access and control over parameters for the selected effect. The Audition button plays one of five digitally recorded audio samples through the selected effects to audition their settings without the need for an external audio source.



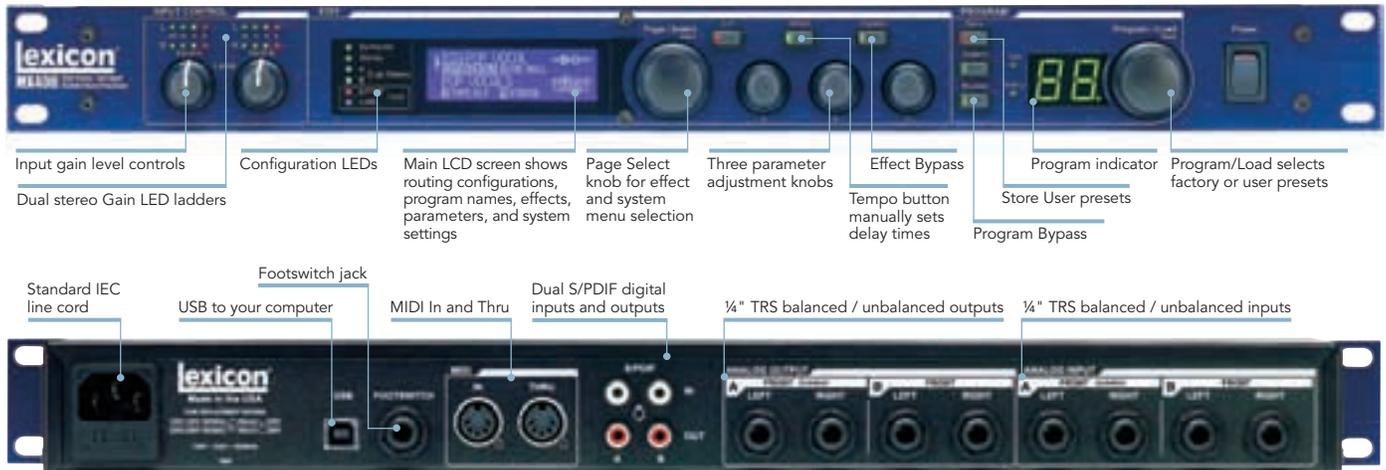
# MX300

The MX300 features two processors, so you can apply two effects simultaneously or combine different effects in one of five routing options. The MX300 also includes stereo XLR inputs and outputs as well as 1/4" inputs and outputs for greater versatility. Dedicated parameter knobs and an LCD screen make preset selecting and editing extremely easy, on a dark stage or in the recording studio.



# MX400/MX400XL

Four processors let you add dual stereo or true surround effects to your recordings. The built-in LCD display and front-panel parameter adjustment knobs make selecting and editing presets extremely easy. The MX400 features two ¼" output pairs, two ¼" input pairs, and S/PDIF input/output; the MX400XL features two XLR input pairs, two XLR output pairs, and S/PDIF input/output. Both models include seven effects routing options and 24-bit 44.1/48kHz digital sample rates.

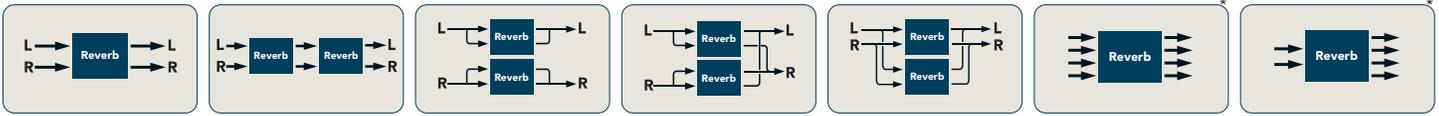


REVERBS	MX200	MX300	MX400
Small Hall	■	■	■
Large Hall	■	■	■
Surround Hall			■
Small Plate	■	■	■
Large Plate	■	■	■
Room		■	■
Chamber	■	■	■
Gated	■	■	■
Reverse	■	■	■
Vocal Hall	■	■	■
Vocal Plate		■	■
Drum Hall	■	■	■
Drum Plate	■	■	■
Ambience	■	■	■
Studio	■	■	■
Arena	■	■	■
Spring	■	■	■

MX processors include dbx® Dynamics such as Compressor and De-Esser tools. They also share a suite of modulated effects that includes Chorus, Flanger, Phaser, Tremolo/Pan, Rotary, Vibrato, Pitch Shift, and Detune.

DELAYS	MX200	MX300	MX400
Studio Delay	■	■	■
Mono Delay		■	
Digital Delay	■		■
Tape Delay	■	■	■
Pong Delay	■	■	■
Mod Delay	■	■	■
Reverse Delay	■	■	■
2-Tap Delay		■	■

## MX Routing Configurations



\*Configurations only available with MX400/MX400XL

MX400 Specifications	MX300 Specifications	MX200 Specifications
<p><b>ANALOG AUDIO INPUTS</b></p> <p>Connectors Four ¼" TRS balanced or unbalanced</p> <p>Impedance 50k Ohms bal., 25k Ohms unbal.</p> <p>Input Level +4 dBu nominal, +24 dBu maximum</p> <p>48kHz or 44.1kHz</p> <p>A/D Conversion 24-bit, 48kHz 128 x oversampling</p>	<p><b>ANALOG AUDIO INPUTS</b></p> <p>Connectors Two ¼" TRS, Two XLR female</p> <p>Impedance 50k Ohms bal., 25k Ohms unbal.</p> <p>Input Level +4 dBu nominal, +24 dBu maximum</p> <p>48kHz or 44.1kHz</p> <p>A/D Conversion 24-bit, 48kHz 128 x oversampling</p>	<p><b>ANALOG AUDIO INPUTS</b></p> <p>Connectors Two ¼" TRS balanced or unbalanced</p> <p>Impedance 20k Ohms balanced, 10k Ohms unbalanced</p> <p>Input Level +4 dBu nominal, +20 dBu max</p> <p>48kHz or 44.1kHz</p> <p>A/D Conversion 24-bit, 48kHz 128 x oversampling</p>
<p><b>ANALOG AUDIO OUTPUTS</b></p> <p>Connectors Four ¼" TRS balanced or unbalanced</p> <p>Impedance 2k Ohms balanced, 1k Ohms unbalanced</p> <p>Output Level +4 dBu or -10 dBV nominal (software adjustable), 24 dBu maximum</p> <p>48kHz or 44.1kHz</p> <p>D/A Conversion 24-bit, 48kHz 128 x oversampling</p>	<p><b>ANALOG AUDIO OUTPUTS</b></p> <p>Connectors Two ¼" TRS bal. or unbal. Two XLR male</p> <p>Impedance 2k Ohms balanced, 1k Ohms unbalanced ¼" only</p> <p>Output Level +4 dBu or -10 dBV nominal (software adjustable), 24 dBu maximum</p> <p>48kHz or 44.1kHz</p> <p>D/A Conversion 24-bit, 44.1/48kHz 128x oversampling</p>	<p><b>ANALOG AUDIO OUTPUTS</b></p> <p>Connectors Two ¼" TRS balanced or unbalanced</p> <p>Impedance 2k Ohms balanced, 1k Ohms unbalanced ¼" only</p> <p>Output Level +4 dBu or -10 dBV nominal (software adjustable), 20 dBu maximum</p> <p>48kHz or 44.1kHz</p> <p>D/A Conversion 24-bit, 44.1/48kHz 128x oversampling</p>
<p><b>ANALOG AUDIO PERFORMANCE</b></p> <p>Frequency Response 10 Hz – 20kHz +0 dB/-0.5 dB</p> <p>THD+N &lt;0.0019% 10Hz – 20kHz</p> <p>Dynamic Range &gt;109 dB (A-weighted) A/A</p> <p>Crosstalk typical &lt;-80 dB 20Hz – 20kHz</p>	<p><b>ANALOG AUDIO PERFORMANCE</b></p> <p>Frequency Response 10 Hz – 20kHz +0 dB/-0.5 dB</p> <p>THD+N &lt;0.0019% 10Hz – 20kHz</p> <p>Dynamic Range &gt;109 dB (A-weighted) A/A</p> <p>Crosstalk typical &lt;-80 dB 20Hz – 20kHz</p>	<p><b>ANALOG AUDIO PERFORMANCE</b></p> <p>Frequency Response 20 Hz – 20kHz, ref. 1kHz +/-1 dB</p> <p>THD+N &lt;0.007% 20Hz – 20kHz</p> <p>Dynamic Range &gt;107 dB (A-weighted) A/A</p> <p>Crosstalk &gt;80 dB 20Hz – 20kHz</p>
<p><b>DIGITAL INPUT AND OUTPUT</b></p> <p>Connectors Dual RCA phono (S/PDIF)</p> <p>Format S/PDIF 24-bit</p> <p>Sample Rate 44.1 or 48kHz</p> <p>Processing Delay 3.7 ms @ 48 kHz</p> <p>Frequency Response 10Hz to 22kHz ±0.5 dB @ 48kHz</p>	<p><b>DIGITAL INPUT AND OUTPUT</b></p> <p>Connectors Dual RCA phono (S/PDIF)</p> <p>Format S/PDIF 24-bit</p> <p>Sample Rate 44.1kHz or 48kHz</p> <p>Processing Delay 3.7 ms @ 48 kHz</p> <p>Frequency Response 10Hz to 22kHz ±0.5 dB @ 48kHz</p>	<p><b>DIGITAL INPUT AND OUTPUT</b></p> <p>Connectors Dual RCA phono (S/PDIF)</p> <p>Format S/PDIF 24-bit</p> <p>Sample Rate 44.1kHz or 48kHz</p> <p>Processing Delay 3.7 ms @ 48 kHz</p> <p>Frequency Response 10Hz to 22kHz ±0.5 dB @ 48kHz</p>
<p><b>CONTROL INTERFACE</b></p> <p>USB USB 1.0 for MX-EDIT™ Editor/Librarian and VST™/Audio Units plug-ins</p> <p>MIDI In/Out 5-pin DIN</p> <p>Foot Pedal ¼" phone jack</p>	<p><b>CONTROL INTERFACE</b></p> <p>USB USB 1.0 for MX-EDIT™ Editor/Librarian and VST™/Audio Units plug-ins</p> <p>MIDI In/Thru 5-pin DIN</p> <p>Footswitch ¼" phone jack</p>	<p><b>CONTROL INTERFACE</b></p> <p>USB USB 1.0 for MX-EDIT™ Editor/Librarian and VST™/Audio Units plug-ins</p> <p>MIDI In and Out/Thru 5-pin DIN</p> <p>Footswitch ¼" phone jack</p>
<p><b>GENERAL</b></p> <p>Power 117 VAC or 230 VAC, 18 Watts</p> <p>Size (W/H/D) 19" x 1.75" x 7.25"*/6.375" (483 x 44 x /185mm*/162 mm)</p> <p>Weight 5.8 lbs (2.6 kg)</p> <p>*including knobs.</p>	<p><b>GENERAL</b></p> <p>Power 100–120 VAC 50/60Hz, 18 Watts</p> <p>220–240 VAC 50/60Hz, 18 Watts</p> <p>Size (W/H/D) 19" x 1.75" x 7.25"*/6.375" (483 x 44 x /185mm*/162 mm)</p> <p>Weight 5.8 lbs (2.63kg)</p> <p>*including knobs.</p>	<p><b>GENERAL</b></p> <p>Power 9 VAC 1.3A 50/60Hz, 18 Watts</p> <p>Size (W/H/D) 19" x 1.75" x 7.25"*/6.375" (483 x 44 x /185mm*/162 mm)</p> <p>Weight 5.8 lbs (2.63kg)</p> <p>*including knobs.</p>

All specifications subject to change

# New and Legendary Reverbs. Seamless Studio Integration.



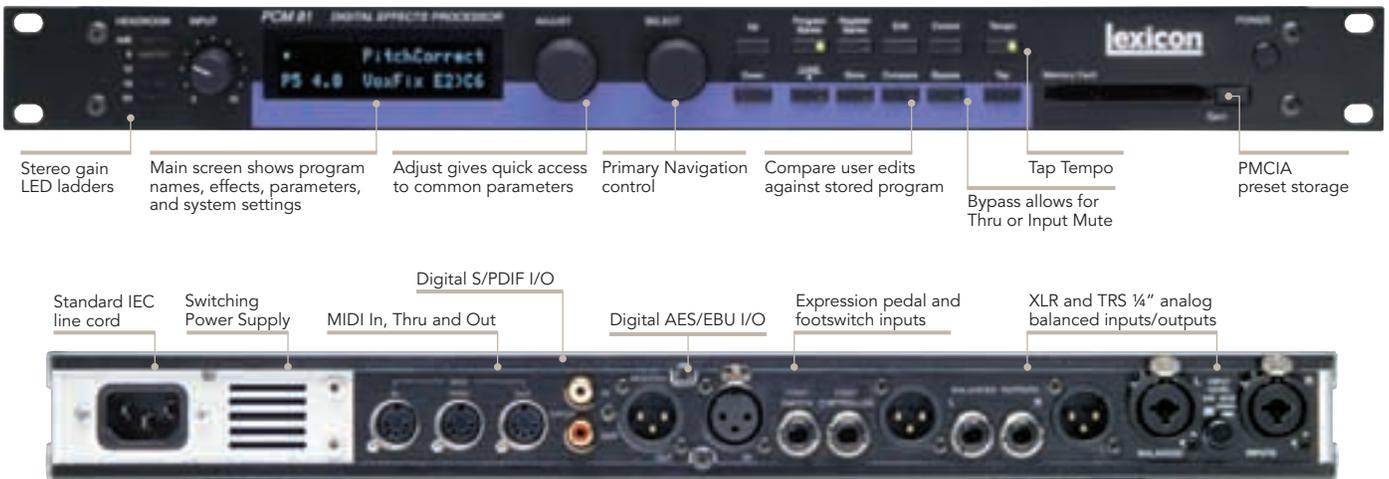
## PCM SERIES PROCESSORS

The PCM81, PCM91, and the new PCM96 provide the professional quality stereo reverbs and effects that are respected and admired by pros and hobbyists alike. The PCM series features hundreds of presets based on the best algorithms in the business. You can also customize them all with pre-selected parameters near the surface, or go deep and modify elements at a microscopic level to realize your sonic vision.



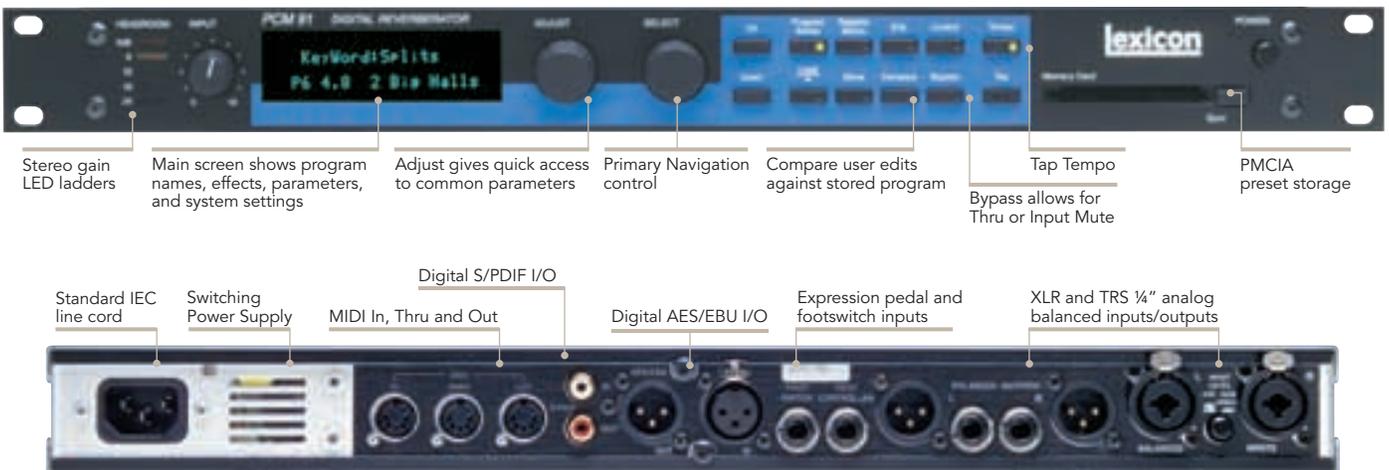
# PCM81

Each of the PCM81's effects has an uncompromised stereo reverb with several voices of additional effects. A full complement of Pitch Shifters provides doubling, quadruple-tracking, chorus, and pitch correction within a range of up to three octaves (up or down) in one cent increments, as well as unique special effects. 300 presets give you instant access to pitch, reverb, ambience, sophisticated modulators, over 21 seconds of delay time, and dynamic spatialization effects for 2-channel or surround applications.



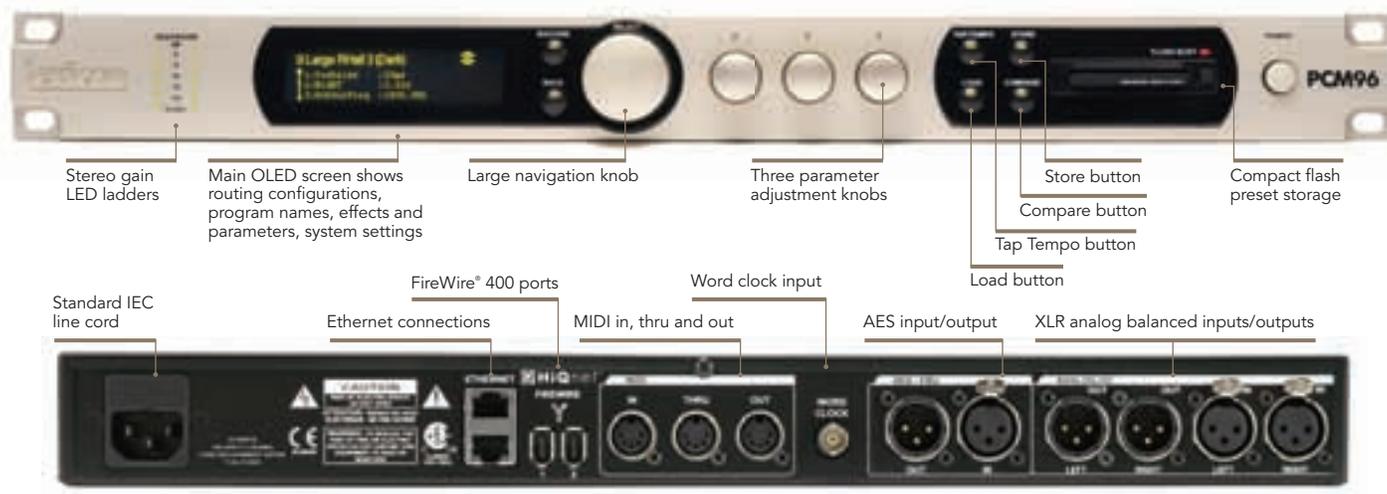
# PCM91

The PCM 91 Digital Reverberator offers Lexicon's highest quality reverbs in a compact, affordable package with a powerful interface, allowing both easy access and a wealth of programming capabilities for the sound designer. All of the features of the acclaimed PCM 90 are included, plus full AES/EBU I/O, new Dual Reverb algorithms, and new presets with dynamic spatialization effects for 2-channel or surround applications. 450 presets provide sounds for real-world applications—and a unique KeyWord search and sort function allows you to find the preset you want fast. A PCM CIA card slot allows you to store your own programs on memory cards.



# PCM96

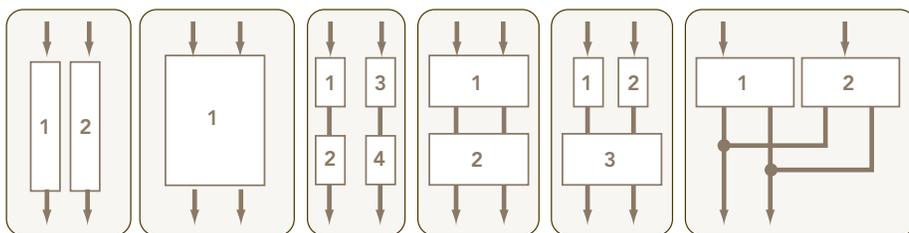
The PCM96 is the first PCM unit that works with your DAW, streaming audio via FireWire for seamless integration into your studio. This powerhouse boasts a comprehensive selection of legendary Lexicon reverbs and effects, including the return of Lexicon’s prized Concert Hall reverb. Appearing for the first time are new Room and Hall algorithms, plus an assortment of new mono reverbs and effects. And selectable, reversible reflection patterns, multimode filters, and “infinity switches” provide additional new capabilities.



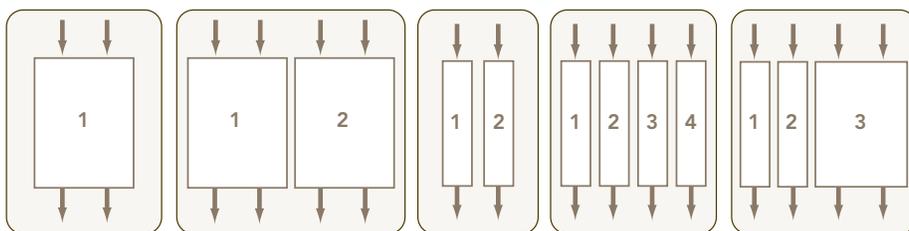
### MULTIPLE EFFECTS ROUTING OPTIONS

The PCM96 includes standard IO and streaming plug-in configurations, providing arbitrary routing capability.

#### STANDALONE MODE ROUTING (Analog, Digital)



#### PLUG-IN MODE ROUTING (FireWire)



### PCM96 KEY FEATURES

- 28 legendary Lexicon® reverbs, room models, modulation, delay, and pitch effects
- DAW automation through plug-in format
- FireWire streaming through plug-in format
- Quick softrow keys for fast navigation through complex algorithms
- “Hardware Plug-In” feature with Mac VST® and Audio Units plug-in software
- MIDI In, Out, and Thru
- Compact Flash preset storage
- HiQnet compatible
- 32-bit floating point processing
- Multiple sample rates: 44.1, 48, 88.2, and 96 kHz
- +4 dBu or –10 dBV selectable input and output levels
- External BNC Wordclock input

PCM81 Specifications	PCM91 Specifications	PCM96 Specifications
<p><b>ANALOG AUDIO INPUTS</b></p> <p>Connectors Two XLR / ¼" TRS balanced Impedance 100k Ohms balanced 50k Ohms unbalanced</p> <p>Input Level -2 dBu to +20 dBu, balanced -22 dBu to 0 dBu, unbalanced</p> <p><b>ANALOG AUDIO OUTPUTS</b></p> <p>Connectors Two XLR / ¼" TRS balanced Impedance 125 Ohms balanced Output Level +18 dBm balanced +4 dBm unbalanced</p> <p><b>DIGITAL INPUT AND OUTPUT</b></p> <p>Connectors XLR I/O; Coaxial RCA I/O Format AES/EBU balanced S/PDIF unbalanced</p> <p>Sample Rate 44.1kHz or 48kHz Conversion 24-bit A/D; 24-bit D/A</p> <p><b>AUDIO PERFORMANCE</b></p> <p>Frequency Response 10Hz - 20kHz ± 5dB HD &lt;0.006%, 10Hz - 20kHz Dynamic Range D/A: &gt;98dB typical, 10Hz - 20kHz A/D: &gt;105dB typical, 10Hz - 20kHz A/A: &gt;96dB typical, 10Hz - 20kHz</p> <p>Crosstalk -55dB, 10Hz to 20kHz Internal Audio DSP 24-bit</p> <p><b>CONTROL INTERFACE</b></p> <p>Memory Cards PCMCIA type I cards, 68 pins Standards PCMCIA 2.0 and JEIDA 4.0 Format Up to 1MB of SRAM (attribute memory not required)</p> <p>MIDI In/Thru/Out 5-pin DIN's Footswitch ¼" TRS connector for two independent momentary footswitches (system detects normal-open, or normal-closed on power up)</p> <p>Foot Controller ¼" TRS connector 100 Ohms – 10k Ohms (Impedance)</p> <p><b>GENERAL</b></p> <p>Power 100–240 VAC 50/60Hz, 35 Watts Automatic switching, (3-pin IEC connector)</p> <p>Size (W/H/D) 19" W x 1.75" H x 12" D (483 x 45 x 305 mm) rack mount standard</p> <p>Weight 6.4 lbs (2.9 kg) Operating Temp. 32° to 104°F (0° to 40°C) Maximum Humidity 95% without condensation</p>	<p><b>ANALOG AUDIO INPUTS</b></p> <p>Connectors Two XLR / ¼" TRS balanced Impedance 100k Ohms balanced 50k Ohms unbalanced</p> <p>Input Level -2 dBu to +20 dBu, balanced -22 dBu to 0 dBu, unbalanced</p> <p><b>ANALOG AUDIO OUTPUTS</b></p> <p>Connectors Two XLR / ¼" TRS balanced Impedance 125 Ohms balanced Output Level +18 dBm balanced +4 dBm unbalanced</p> <p><b>DIGITAL INPUT AND OUTPUT</b></p> <p>Connectors XLR I/O; Coaxial RCA I/O Format AES/EBU balanced S/PDIF unbalanced</p> <p>Sample Rate 44.1kHz or 48kHz Conversion 24-bit A/D; 24-bit D/A</p> <p><b>AUDIO PERFORMANCE</b></p> <p>Frequency Response 10Hz - 20kHz ± 5dB HD &lt;0.006%, 10Hz - 20kHz Dynamic Range D/A: &gt;98dB typical, 10Hz - 20kHz A/D: &gt;105dB typical, 10Hz - 20kHz A/A: &gt;96dB typical, 10Hz - 20kHz</p> <p>Crosstalk -55dB, 10Hz to 20kHz Internal Audio DSP 20-bit</p> <p><b>CONTROL INTERFACE</b></p> <p>Memory Cards PCMCIA type I cards, 68 pins Standards PCMCIA 2.0 and JEIDA 4.0 Format Up to 1MB of SRAM (attribute memory not required)</p> <p>MIDI In/Thru/Out 5-pin DIN's Footswitch ¼" TRS connector for two independent momentary footswitches (system detects normal-open, or normal-closed on power up)</p> <p>Foot Controller ¼" TRS connector 100 Ohms – 10k Ohms (Impedance)</p> <p><b>GENERAL</b></p> <p>Power 100–240 VAC 50/60Hz, 35 Watts Automatic switching, (3-pin IEC connector)</p> <p>Size (W/H/D) 19" W x 1.75" H x 12" D (483 x 45 x 305 mm) rack mount standard</p> <p>Weight 6.4 lbs (2.9 kg) Operating Temp. 32° to 104°F (0° to 40°C) Maximum Humidity 95% without condensation</p>	<p><b>ANALOG AUDIO INPUTS</b></p> <p>Connectors Two XLR balanced Impedance 20k Ohms balanced Input Level +4 dBu mode; 20 dBu max. -10 dBu mode; 8.21 dBu max. Type IV mode; +26 dBu max.</p> <p><b>ANALOG AUDIO OUTPUTS</b></p> <p>Connectors Two XLR balanced (elec.) Impedance 30 Ohms balanced Output Level +4 dBu mode; +20 dBu max. -10 dBu mode; 8.21 dBu max.</p> <p><b>DIGITAL INPUT AND OUTPUT</b></p> <p>Connectors XLR I/O Format AES/EBU balanced Sample Rate 44.1kHz, 48kHz, 88.2kHz, 96kHz Conversion 24-bit A/D; 24-bit D/A</p> <p><b>AUDIO PERFORMANCE</b></p> <p>Frequency Response 20Hz - 20kHz ± .25dB 20Hz - 40kHz +0/-3dB HD &lt;0.002%, 20Hz - 20kHz Dynamic Range D/A: &gt;112dB typical, 20Hz - 20kHz A/D: &gt;112dB typical, 20Hz - 20kHz A/A: &gt;111dB typical, 20Hz - 40kHz</p> <p>Crosstalk -90dB, 20Hz to 40kHz Internal Audio DSP 32/64-bit floating point</p> <p><b>CONTROL INTERFACE</b></p> <p>Memory Cards Compact Flash Type I Standards Supports all size memory cards Format In/Thru/Out 5-pin DIN's Footswitch N/A</p> <p>Foot Controller N/A</p> <p><b>GENERAL</b></p> <p>Power 100–240 VAC 50/60Hz, 20 Watts Automatic switching, (3-pin IEC connector)</p> <p>Size (W/H/D) 19" W x 1.75" H x 12.5" D (483 x 45 x 318 mm) rack mount standard</p> <p>Weight 8.65 lbs (3.93 kg) Operating Temp. 59° to 95°F (15° to 35°C) Maximum Humidity 75% relative humidity max.</p>

All specifications subject to change

# A Generation Redefined. The Legacy Continues.



## DIGITAL EFFECTS SYSTEMS

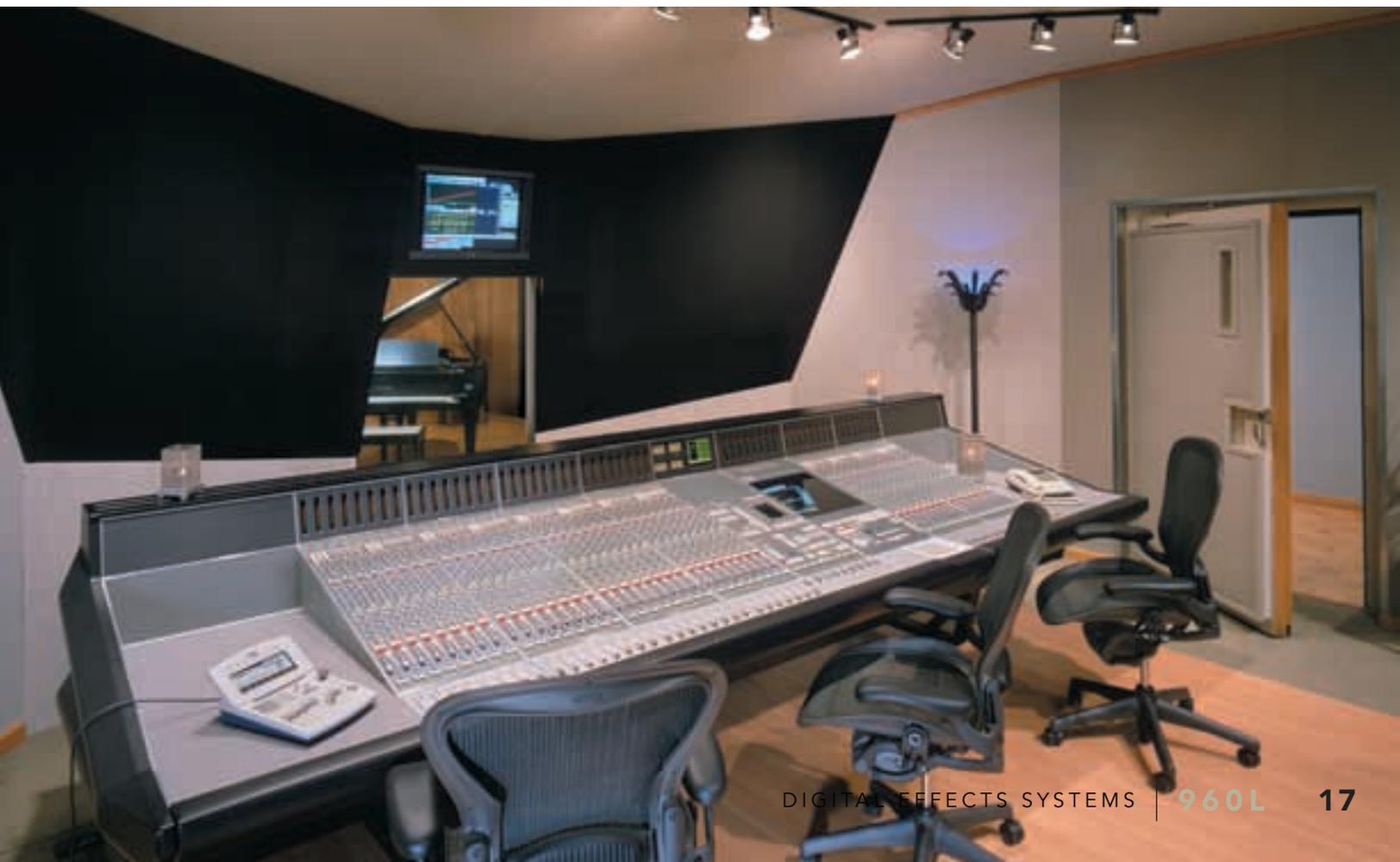
Hearing is believing. Set the unit up in your studio, select one of the superb surround reverb algorithms and turn off the lights. You'll hear Lexicon's proprietary modeling create a new acoustic environment. Move about inside the speaker array and hear for yourself how large and enveloping the sweet spot is, how stable the imaging, and how realistic the sound. Add reverbs and effects while standing anywhere in the room, fine tune your sound while listening from different vantage points. You'll immediately understand how the 960L – and its predecessor, the 480L – redefined the digital effects standard for a new generation of sound professionals.



## 960L



The heart of the 960L is an upgradable DSP powerhouse with eight analog and digital inputs and outputs. A "digital-only" I/O version (960L/D) is also available. The analog audio interface is fully-balanced with 24-bit, 96 kHz conversion, and there's AES/EBU digital I/O plus MIDI and word-clock in/out/thru. What's outside the mainframe is equally as impressive as what's inside – because the 960L is controlled by the LARC2 – a remote with a vast array of features, eight touch-sensitive motorized faders and a superb high-resolution color LCD display. Between these are eight soft keys associated with the display, a numeric keypad, cursor control, illuminated function keys, and a compact joystick. Above the bright screen are three LEDs for each channel which give you a quick and clear level indication.





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