

# lexicon

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**MV-5 Processor**





The MV-5 Processor is a landmark product for Lexicon and represents several firsts for the brand, offering capabilities previously only available in the flagship MC-12 HD. The MV-5 also breaks new ground with several features not currently available in other Lexicon products – all at a fraction of the price. At its heart, the MV-5 is a multi-faceted audio and video preamplifier with built-in processing. In addition, the MV-5 can accommodate a pair of HDMI source devices and can connect directly to a PC via USB, enabling the control and playback of streaming audio files. With the optional dock accessory, iPod® owners can even play their iPod® music through the MV-5.

Drawing from Lexicon's background and expertise, the MV-5 Processor features the latest version of Lexicon's critically acclaimed Logic 7® decoding. The calling card of all Lexicon processors, Logic 7 has been widely praised for its ability to greatly enhance the listening experience of any type of source

material – whether it is music, film, TV, or even video games. Using Logic 7 with your system means that your music sounds more natural – more like you'd hear it at a live event; movies are more compelling, drawing you deeper into the illusion of being there; and video games put you right in the middle of the action. There's very little that Logic 7 can't improve, and it's just one more reason why Lexicon products are considered to be the best in the industry. The MV-5 features an automated procedure for use in speaker setup, which also performs system equalization. Most equalization systems simply knock down the peaks in the response, but the MV-5 calibrates the system more intelligently - compensating for frequency response aberrations and varied speaker performance, while balancing the entire system for the best overall results. In addition, the MV-5 is capable of storing different calibrations, so up to three different listening positions can be recalled at the touch of a button. The end result is a system that optimizes the sound quality where it counts the most – at your seat!

The MV-5 is the first Lexicon processor to feature integrated Faroudja® video processing technology. With this superior video capability, the MV-5 can take any incoming video format and up-convert it to HDMI output, so a single HDMI cable can be utilized between the MV-5 and the video display. The MV-5 can also scale the video to 720p or 1080i output resolution for improved video performance from standard definition sources. In addition, the MV-5 has two menu pages, per input, devoted solely to advanced user-adjustable video processing features such as Faroudja's DCDi®, designed to smooth out the jagged edges caused when video is de-interlaced. Film mode detection, another option, automatically identifies film sources and restores the proper frame sequence, and the noise reduction option helps to minimize the noise often contained within analog video signals. Also included are basics such as brightness, sharpness, and contrast.

#### MAIN ZONE & ZONE 2 AUDIO PERFORMANCE CONT.

A/D conversion	24-bit, 96 kHz, dual-bit $\Delta\Sigma$
D/A conversion	24-bit, 44.1 to 192 kHz, multi-bit $\Delta\Sigma$
Input Sensitivity	200 mV for Analog 1 to 6, and 200 mV for 8ch input 2 Vrms max input level
Input Impedance	98.5 k $\Omega$ for Analog 1 to 6, and 32 k $\Omega$ for 8-channel input

#### GENERAL

Power Requirements	90-250 VAC, 50-60Hz, 50W (Univesal line input)
Power Consumption	4.0W at Power on, idle 50W Max.

Dimensions	Height (with feet): 5.0 inches (127 mm)
Height	(without feet): 4.3 inches (109 mm)
Width	16.8 inches (426 mm)
Depth*	16.7 inches (423 mm)

\*Depth measurement includes knobs, buttons, and terminal connections.

Weight	Net Weight: 17.6 lb (8 kg) Gross Weight: 26.5 lb (12 kg)
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Rack-Mounting	Lexicon built rack mount kit not available. Please seek alternative.
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Operating Environment	Operating temperature: 0 to 45 C (32 to 113 F)
Storage temperature:	-20 to 60 C (-4 to 140 F)
Relative humidity:	93% max without condensation

Remote Control	Hand-held, back-lit, IR/RF** pre-programmed and learning remote control (requires 4 AAA batteries – included) **For use with optional R-I receiver. <i>Specifications subject to change without notice.</i>
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# MV-5 Specifications

## AUDIO INPUTS

HDMI (Version 1.1)	2 HDMI Type A, 19-pin connectors
Analog Video	Three component video, RCA connectors Four S-Video connectors Four composite video, RCA connectors
Digital Audio	Four S/PDIF coaxial (RCA) and four S/PDIF optical (Toslink) connectors, Coaxial & optical input connectors conform to IEC-958, S/PDIF standards, One USB mini-B connector
Analog Audio	RCA connectors one 8-channel array Six Stereo RCA connectors One microphone, 3.5mm mono mini plug 1 DOCK 30-pin connector (for optional docking station)

Control	One RS-232, 9-pin, D-sub connector One receiver, on front panel One 3.5mm IR IN jack: Input Voltage: 3V - 15V Input Current: 10mA Frequency: 20Hz - 1KHz Accepts either stereo plug (Tip/Ring/Sleeve) or mono plug (Tip/Sleeve)
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## OUTPUTS

HDMI (Version 1.1)	One HDMI Type A, 19-pin connector
Analog Video	One component video, RCA connector One S-Video connector One composite video, RCA connector
Analog Audio	One 8-channel preamplifier plus additional subwoofer, RCA connectors Zone 2 Analog Out: RCA Stereo connector
Control	Two triggers - one power on/off & one programmable 3.5mm mono mini plugs 12 VDC, 300mA maximum output draw

## HDMI PERFORMANCE

HDMI Input	Video: 480i/p, 576i/p, 720p, or 1080i Audio: Dolby Digital, DTS, & PCM (32, 44.1, 48, 88.2, 96 kHz, 176.4 kHz, and 192 kHz)
HDMI Output	Video: 480i/p, 576i/p, 720p, or 1080i Audio: Dolby Digital, DTS, & PCM (32, 44.1, 48, 88.2, 96 kHz, 176.4 kHz, and 192 kHz)

## COMPONENT VIDEO PERFORMANCE

Compatibility	3-channel (Y, Pr, Pb), format-independent
Impedance	75 $\Omega$
Insertion Loss	<3 dB
Bandwidth	>100 MHz

## S-VIDEO & COMPOSITE VIDEO PERFORMANCE

Compatibility	NTSC, PAL, and SECAM
A/D converter	12-bit, 110 MHz
D/A converter	12-bit, 74.25 MHz
Input Level / Impedance	1V peak-to-peak / 75 $\Omega$
Output Level / Impedance	1V peak-to-peak / 75 $\Omega$
Frequency Response	Composite: 10 Hz to 8 MHz, -3 dB S-Video: 10 Hz to 8 MHz, -3 dB Component: 10 Hz to 100 MHz, -3 dB
Signal-to-Noise Ratio	>65 dB
Differential Gain	<0.2%
Differential Phase	<0.5 degrees
Gain	+/- 0.15 dB

## MAIN ZONE & ZONE 2 AUDIO PERFORMANCE

Frequency Response	10 Hz to 40 kHz, +0, -2 dB
THD + Noise	<0.05%, 20 Hz to 20 kHz
Dynamic Range	100 dB typical, 22 kHz bandwidth
Signal-to-Noise Ratio	100 dB typical, 22 kHz bandwidth min 100 dBA, 103 dBA typical
Output Level	200 mV typical, 6 Vrms maximum
Output Impedance	570 $\Omega$



The remote control, included with the MV-5, is a full-featured universal controller, designed to run your whole home theater system. Containing an extensive library of pre-programmed infra-red codes, the MV-5 remote control can replace virtually any other product remote control. This powerful remote also has the ability to learn commands from other remote controls, as well as a suite of built-in customizable features. Coupled with the RF receiver option, you'll have the power to control your home theater system – from virtually anywhere in your home. This is particularly useful in installations where the MV-5 is hidden out of sight or for users who already have a control system for the home theater and want to use the MV-5 remote control from another room.

The MV-5 provides several other useful features including a RS-232 port for use with bi-directional control systems as well as an IR input jack for IR based control systems. And to keep pace with today's rapidly-changing technology, the MV-5 has two new features never-before offered in a Lexicon product. You can now listen to the music on your PC with all of the power and performance of the MV-5, using a USB connection. And with the optional Dock accessory, you can enter a new world of listening enjoyment through the combination of the storage capacity and playback flexibility of an iPod with the sonic power of the MV-5. The connected iPod can even be controlled seamlessly from the remote control or RS-232 port. Since the MV-5 front panel and on-screen displays keep you informed of what is happening, you don't even need to see the iPod to control it.

A flexible menu structure, audio and video processing, automated calibration and EQ, in-depth customization, multimedia playback features...the MV-5 represents a new age of audio and video processing equipment from Lexicon. We invite you to experience the MV-5 for yourself.



LOGIC 7 audio processing

12 configurable inputs, 8 channels, 2 audio zones

Automatic EQ and speaker calibration (microphone included)

Faroudja® video processing

Independent Zone 2 audio output

iPod® support (with optional accessory)

7.1-channel analog input

PC-compatible media player support via USB connector

RF remote control (with optional accessory)

HDMI inputs and output

RS-232 control, rear-panel IR input, 2 trigger outputs, 1 mic input

Universal pre-programmed and learning remote control

