

lexicon

harman specialty group
3 Oak Park, Bedford, MA 01730-1413 USA
Tel: 781-280-0300 | Fax: 781-280-0490
www.lexicon.com.

A Harman International Company
©2007 Harman International Industries, Incorporated.

Printed in U.S.A. • Part # 072-20559 Rev 0 • 8.07

Other company and product names may be trademarks of the respective companies with which they are associated.

Not responsible for any typographical errors

lexicon



RV-5 Receiver





The RV-5 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 RV-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 RV-5 is a multi-faceted audio and video preamplifier with built-in processing. Married to that is a high-current, 7-channel power amplifier capable of driving a wide array of loudspeakers and a built-in FM/AM tuner. In addition, the RV-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 connect and play their iPod® through the RV-5.

Drawing from Lexicon's background and expertise, the RV-5 Receiver 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 that 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 RV-5 features an automated procedure for use in speaker setup, which also performs system equalization. Unlike most equalization systems which simply knock down the peaks in the response, the RV-5 calibrates the system more intelligently - compensating for frequency response aberrations, varied speaker performance and balancing the entire system for the best overall results. In addition, the RV-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 RV-5 is the first Lexicon product to feature integrated Faroudja® video processing technology. With this superior video capability, the RV-5 can take any incoming video format and up-convert it to HDMI output, so a single HDMI cable can be utilized between the RV-5 and the video display. The RV-5 can also scale the video to 720p or 1080i output resolution for improved video performance from standard definition sources. In addition, the RV-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, which automatically identifies film sources and restores the proper frame sequence; and noise reduction to minimize the noise often contained within analog video signals; as well as 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	400 mV for Analog 1 to 6, and 400 mV for 8-ch input
Input Impedance	98.5 k Ω for Analog 1 to 6, and 32 k Ω for 8-ch input

FM TUNER PERFORMANCE

Tuning Range	87.5MHz to 108MHz
Sensitivity	IHF 8 μ V/19.2 dB
Selectivity	+/- 400 kHz, 70 dB
Signal-to-Noise Ratio	Mono: 70 dB, Stereo: 65 dB
Image Rejection	43 dB
IF Rejection	75 dB
Stereo Separation	51 dB @ 1 kHz
Distortion	Mono: 0.2%, Stereo: 0.1%

AM TUNER PERFORMANCE

Tuning Range	520 kHz to 1720 kHz
Sensitivity	Loop 177 μ V/m
Selectivity	+/- 10 kHz, 25 dB
Signal-to-Noise Ratio	45 dB
Image Rejection	32 dB
IF Rejection	40 dB
Distortion	1.2%

GENERAL

Power Requirements	120V, 60Hz, 1300W, IEC detachable power cord (supplied) 230V, 50Hz, 1300W, IEC detachable power cords (supplied for EU & UK)
--------------------	---

Power Consumption	5.0W at Power on, idle 1235W at rated power output (7-channels driven)
-------------------	---

Dimensions	Height (with feet): 6.6 inches (168 mm) (without feet): 6 inches (153 mm)
Height	17.3 inches (440 mm)
Width	15.6 inches (397 mm)
Depth*	*Depth measurement includes knobs, buttons, and terminal connections.

Weight	Net Weight: 39.7 lb (18 kg) Gross Weight: 55.1 lb (25 kg)
--------	--

Rack-Mounting	Lexicon built rack mount kit not available. Please seek alternative.
---------------	--

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>
----------------	---



RV-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	One 8-channel RCA connector Six Stereo RCA connectors One microphone, 3.5mm mono mini plug 1 DOCK 30-pin connector (for optional docking station) 1 FM antenna 1 AM antenna Input sensitivity = max input level 2 Vrms
Control	One RS-232, 9-pin, D-sub connector One IR 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)

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	7-channel amplified, binding posts One 8-channel preamplifier plus additional subwoofer, RCA connectors Bare wire: Up to 10 gauge
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 Ω
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 Ω
Output Level / Impedance	1V peak-to-peak / 75 Ω
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

AMPLIFIER OUTPUTS

Continuous Output	85 W per channel, 8 Ω, all channels driven, 20 Hz to 20 kHz
Frequency Response	10 Hz to 40 kHz, +0, -2 dB
THD + Noise	<0.05%, 20 Hz to 20 kHz, 1 W <0.07%, 20 Hz to 20 kHz, 85 W
IM Distortion	<0.04%
Slew Rate	17 V/us (Condition: output 40 Vpp, 1k sine wave, rise time from 10% to 90%)
Signal-to-Noise Ratio	95 dB typical, 22 kHz bandwidth min 95 dBA, 90 dBA typical

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, 5 V maximum



The remote control, included with the RV-5, is a full-featured universal controller, designed to run your whole home theater system. The remote control contains an extensive library of pre-programmed infra-red codes so it can replace virtually any 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 RV-5 is hidden out of sight or for users who already have a control system for the home theater and want to use the RV-5 remote control from another room.

The RV-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 RV-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 RV-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 RV-5. The connected iPod can even be controlled seamlessly from the front panel, remote control or RS-232 port. Since the RV-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 RV-5 represents a new age of audio and video processing equipment from Lexicon. We invite you to experience the RV-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)

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

Universal pre-programmed and learning remote control

FM/AM tuner with 30 presets

Assignable, High current, 7x85 watt power amplifier (Rear channels or Zone-2 in 5.1-channel systems)

7.1-channel analog input

PC-compatible media player support via USB connector

RF remote control (with optional accessory)

HDMI inputs and output

