

MV-5 Processor SERVICE MANUAL



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Lexicon 250 Crossways Park Dr. Woodbury, New York 11797

SPECIFICATIONS

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 input array, RCA connectors 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 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	 One 8-channel preamplifier plus additional subwoofer, RCA connectors Zone2 Analog Out: 1 RCA Stereo connector
Control	Two triggers - one power on/off & one programmable 3.5mm mono mini plugs 12VDC, 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, 96kHz, 176.4kHz, and 192kHz)	
HDMI Output	Video: 480i/p, 576i/p, 720p, or 1080i Audio: Dolby Digital, DTS, & PCM (32, 44.1, 48, 88.2, 96kHz, 176.4kHz. and 192kHz)	

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

Component Video Performance		
Compatibility	3-channel (Y, Pr, Pb), format-independent	
Impedance	75Ω	
Insertion Loss	<3dB	
Bandwidth	>100MHz	

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Main Zone & Zone 2 Audio Performance		
A/D conversion	24-bit, 96kHz, dual-bit $\Delta\Sigma$	
D/A conversion	24-bit, 44.1 to 192kHz, multi-bit $\Delta\Sigma$	
Input Sensitivity	200mV for Analog 1 to 6, and 200mV for 8-ch input max input level: 2Vrms	
Input Impedance	98.5k Ω for Analog 1 to 6, and 32k Ω for 8-ch input	
Frequency Response	10Hz to 40kHz, +0, -2dB	
THD + Noise	<0.05%, 20Hz to 20kHz	
Dynamic Range	100dB typical, 22 kHz bandwidth	
Signal-to-Noise Ratio	100dB typical, 22kHz bandwidth min 100dBA, 103dBA typical	
Output Level	200mV typical, 6Vrms maximum	
Output Impedance	570Ω	

General		
Power Requirements	90-250VAC, 50-60Hz, 50W (Universal line input) IEC detachable power cords (supplied)	
Power Consumption	3.76W at Power on, idle 47.2W at rated power output (HDMI in/out mode)	
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) 	
Weight	Net Weight: 17.6 lb (8 kg)Gross Weight: 26.5 lb (12 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)	

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

**For use with optional RF-1 Receiver.

Specifications are subject to change without notice.

Q'TY



MV5/RV5 spare parts entered to Minx/Omnify 7/31/07 MV-5 PROCESSOR

<u>HSG PN</u>	<u>TELEFIELD PN (AVL)</u>	OMNIFY DESCRIPTION
tlf-00000	3SR-6109US-BA00-1-1	RV5US AV RECEIVER BASE ASSY
tlf-00001	3SR-6109US-BCA0-1-1	RV5US AV RECEIVER CASING ASSY
tlf-00002	3SR-6109US-BDA0-1-3	RV5US DSP BD PCBA ASSY
tlf-00003	3SR-6109US-BFA0-1-7	RV5US FRONT BD PCBA ASSY
tlf-00004	3SR-6109US-BMA0-1-A	RV5US MAIN BD PCBA ASSY
tlf-00005	3SR-6109US-BNA0-1-1	RV5US CONNECT BD PCBA ASSY
tlf-00006	3SB-6109US-BPA0-1-5	BV5US PBOCESSOB BD PCBA ASSY
tlf-00007	3SB-6109US-BSA0-1-0	RV5US SUPPLY BD PCBA ASSY
tlf_00008	3SB-6109US-BUA0-1-4	RV5US SUBROUND BD PCBA ASSY
	3SR-6109US-BVA0-1-6	
tif 00010	25R 6110EU RA00 1 A	
tif-00010	35R-0110EU-BA00-1-A	
tif-00011	35R-0110EU-BCA0-1-A	
11-00012	35R-6110EU-BDA0-1-1	
11-00013	3SR-6110EU-BFA0-1-5	
tif-00014	3SR-6110EU-BMA0-1-8	RV5EU MAIN BD PCBA ASSY
tlf-00015	3SR-6110EU-BPA0-1-3	RV5EU PROCESSOR BD PCBA ASSY
tlf-00016	3SR-6110EU-BSA0-1-9	RV5EU SUPPLY BD PCBA ASSY
tlf-00017	3SR-6110EU-BUA0-1-2	RV5EU SURROUND BD PCBA ASSY
tlf-00018	3SR-6110EU-BVA0-1-4	RV5EU VIDEO BD PCBA ASSY
tlf-00019	3SR-6111US-BA00-1-A	MV5 PROCESSOR BASE ASSY
tlf-00020	3SR-6111US-BCA0-1-A	MV5 CASING ASSY
tlf-00021	3SR-6111US-BDA0-1-1	MV5 DSP BD ASSY
tlf-00022	3SR-6111US-BFA0-1-5	MV5 FRONT BD ASSY
tlf-00023	3SR-6111US-BPA0-1-3	MV5 PROCESSOR BD ASSY
tlf-00024	3SR-6111US-BRA0-1-7	MV5 RS232 BD ASSY
tlf-00025	3SR-6111US-BVA0-1-4	MV5 VIDEO BD ASSY
tlf-00026	BTA3A1511SF-R-0	BATTERY ALKALINE 1.5V AAA
tlf-00027	H03-ATALF039ABK-R-7	ANTENNA WIRE LOOP-300
tlf-00028	H03-MICROPMV500-R-2	LEXICON MICROPHONE ASSY
tlf-00029	H03-RYE0601HA00-R-2	REMOTE CONTROL RF30, UNIVERSAL
tlf-00030	H03-TXPWMEI20B0-R-3	POWER TOROID RV5EU MAIN 230V 50Hz
tlf-00031	H03-TXPWMEI45B0-R-4	AVR745EU POWER TRANSFORMER (ST/BY)-230V
tlf-00032	H03-TXPWMRV50B0-R-0	POWER TOROID RV5 MAIN 120V 60Hz
tlf-00033	H03-WAB01200203-R-6	ANTENNA WIRE 75 T15011N-1
tlf-00034	H03-WAD01200303-R-0	ANTENNA WIRE 75 OHM T15011F-1
tlf-00035	H03-WAFU2104BK-B-9	PWB COBD AC EU H05VV-E 3X 75MM2 PVC LE
tlf-00036	H03-WAUK2104BK-B-8	PWB CORD AC UK H05VV-F 3X.75MM2 PVC LF
tlf-00037	H03-WAUSASJT160-B-1	AC COBD S.IT 16/3 60 PVC LE VOLEX
tlf-00038	H03-XDM202MD15G-B-3	DISPLAY VED M202MD15GK ELITABA
tlf-00039	H03-7MD27S05A00-B-2	BKT IPOD
tlf_00040	H03-7ME0615GAMW-B-5	
tlf_00040	H03-ZME06S03400-B-4	COVER TOP BV5
tlf_00047		
tlf_00042		
tlf 00043		
tlf 00045		
tlf-00045		
tif-00040	7000100051 D 0	DG FAN JF09255110-0050051 n 120 92892825
11-00047	ZBP00122031-R-8	DAG PE 330 X243 10.03
tif-00048	ZBP00101031-R-1	
11-00049	ZFNR19/205B-R-5	
11-00050	ZKE0602HA01-R-A	
tlf-00051	ZKE0602HA02-R-8	
tlf-00052	ZKE0604AA00-R-3	BOX CARTON RV5 US
tlf-00053	ZKE0604AA02-R-A	BOX CARTON INNER RV5 US
tlf-00054	ZKE0616AA00-R-1	QUICK SETUP GUIDE RV5
tlf-00055	ZKE2004AA00-R-3	BOX CARTON OUTER RV5 EU
tlf-00056	ZKE2004AA01-R-1	BOX CARTON INNER RV5 EU
tlt-00057	ZKE2104AA00-R-8	BOX CARTON OUTER MV5 US
tlf-00058	ZKE2104AA01-R-6	BOX CARTON INNER MV5 US
tlf-00059	ZKGEN87AA00-R-7	LABEL CARTON BOX US BEFORE PRINT
tlf-00060	ZKGEN87HA00-R-8	LABEL CARTON BOX MV5 BEFORE PRINT
tlf-00061	ZKGEN88AA00-R-3	LABEL CARTON BOX EU BEFORE PRINT
tlf-00062	ZQE0601AA00-R-5	CUSHION POLY EPP RIGHT RV5
tlf-00063	ZQE0602AA00-R-1	CUSHION POLY EPP LEFT RV5
tlf-00064	ZQE2101AAWH-R-0	CUSHION RIGHT MV5



MV-5 EXPLODED VIEW PART LIST

INDEX NO.	PART NO.	DESCRIPTION	Q'TY
1	H03-7\/F21S90264-R-1	ASS'Y SMPS 90-264V UNIVERSIAL KWANG SUNG	1 0000
2	H03-ZUD0301ABBK-R-9	SPONGE-UL 30X30X12T BK	1.0000
3	H03-ZME21S07A00-R-1	CHASSIS FRONT MV-5	1.0000
4	H03-ZME21S08A00-R-2	COVER TOP MV-5	1.0000
5	H03-XDM202MD15G-R-3	DISPLAY VFD,M202MD15GK FUTABA	1.0000
6	H03-ZPE0604AA00-R-8	BUTTON FUNCTIONAL-LED RV-5 550-13634	28.0000
7	H03-ZME0615GAMW-R-5	VOLUMN KNOB AL RV-5	1.0000
8	H03-ZME0615GA00-R-4	VOLUMN KNOB D-SPRING RV-5	1.0000
9	H03-ZME21S01A00-R-6	AL PANEL FRONT MV-5	1.0000
10	H03-ZPE0602AA00-R-1	FILTER VED RV-5	1.0000
11	H03-ZPE2101AA00-R-7	PANEL FRONT PLASTIC HIPS V2 SPRAY MV-5 SHIN BU	1.0000
12	7ENIP10720SB-P-5		2.0000
13	ZPC1103GAGY-R-A	FOOT 50MM 15 8MM	4.0000
15	H03-ZME21S13A00-R-6	CHASSIS MAIN MV-5	1.0000
16	H03-ZME21S14A00-R-7	STANDOFF HEX M4X0.7 6X45.4H .DONG SHIN	2.0000
17	H03-ZMD12S01C00-R-4	SHIELD DSP AVR745	1.0000
18	H03-SO3P5179GNN-R-9	JACK PHONE 3.5PI PJ0435179G	1.0000
19	H03-SOJB040131P-R-7	JACK RCA 4P,JB040131PG,DONGBO	2.0000
20	H03-SORA64105GN-R-3	JACK RCA 6P JB060132PG WWWRRR,GOLD COLOR	1.0000
21	H03-ZMD27S05A00-R-2	BKT IPOD	1.0000
22	H03-SORA40RSCGN-R-8	JACK RCA 4P JB040131QG WH BU RD GY,GOLD COLOR	1.0000
23	H03-SORA1J440GE-R-9	JACK RCA 1P PPJ-440FEG PP ,GOLD COLOR	1.0000
24	H03-ZME21S12A00-R-5	STANDOFF HEX M4X0.7 6X74.6H,DONG SHIN	2.0000
25	HU3-SORA40RSCGN-R-8		1.0000
20	H03-SOKA40KSAGN-K-4	JACK KCA 4F JB0401312G GN BN FF TA ,GOLD COLOR	1.0000
28	H03-7MD27S09A00-R-6	BKT XM DONGSHIN	4.0000
29	H03-SQJW2350SNN-R-7	JACK PHONE 3.6 EP-1401A 1P BK	1.0000
30	H03-SORA40021GN-R-7	JACK RCA+S-VIDEO 4P C80200212G DONGBO	1.0000
31	H03-SORA60031GN-R-4	JACK RCA+S-VIDEO 6P C80300312G,GOLD COLOR	1.0000
32	H03-SOR12BJ12GN-R-1	JACK RCA 12P BJ120154JG R4 BU4 G4,GOLD COLOR	1.0000
33	H03-SOYKF457009-R-2	JACK HDMI YKF45-7009 JALCO	3.0000
34	SOPA96063NN-R-0	JACK D-SUB 9P 87204-6063 W/DUST COVER BK	1.0000
35	H03-ZME06S02A00-R-3	BKT GND SMALL,DONG BO	1.0000
36	H03-ZMC12S19A00-R-A		2.0000
37	H03-SOTU301ALY1-R-1	JACK AC INLET TU-301-AL-L-Y11E TECX-UNIONS	1.0000
38	H03-SWSDDJE1233-R-6		1.0000
40	H03-SORA40RSAGN-R-4	IACK RCA 4P, IB0401317G GN BN PP TA, GOLD COLOR	1.0000
41	H03-SWPVB25FHIN-R-A	REB161 (9x7)PVB25FHINB1-2-24PCE NOBLE	1.0000
42	ZUC1201AABK-R-7	SPONGE 30X30X10T BK	1.0000
43	ZUE0601ABBK-R-5	SHIELD FORM GASKET 10X9X30(WxHxL)mm	9.0000
44	ZUE0601AABK-R-7	SHIELD FORM	3.0000
45	ZUE2101AABK-R	SPONGE 10X30X3.0T	1.0000
L1	ZKE2195HA00-R-4	LABEL LICENSE MV-5	1.0000
L2	ZKE2130RV00-R-4	LABEL SERIAL MV-5 IF PRINT	1.0000
L3			2 0000
15	ZKC1222HA00-R-2	I ABEL RISK	1 0000
			1.0000
S1	ZSTWM3008BY	SCREW ST W 3X8	25.0000
S2	ZSMWM3008BZ-R-7	SCREW M.S M3X8 W/H ZN PLATED	14.0000
S3	ZSTBM2508BW-R-1	SCREW 2.5X8 Zinc Plate WH	4.0000
S4	ZSTBM3010BB-R-5	SCREW ST BH 3X10	10.0000
S5	ZSMCM4008BY-R-1	SCREW BM 4X8	5.0000
<u>S6</u>	ZSMPM3006LB-R-A	SCREW.M.S.M3X6 P/HD BLACK	3.0000
<u>\$7</u>	ZSTGM3010BB-R-3	SCREW ST BH 3X10 GROUND	36.0000
58	201 WWW4008B-K		8.0000
SP	H03-ZMB01S02200-R-6	SPRING PLATE GND C5212 0.2T	1,0000
			2.0000
			2.0000
W1	ZWM623108SZ-R-2	WASHER SPRING 3	2.0000
	1		
		FND	
L			

TROUBLESHOOTING

The MV-5 does not power on.

- 1. Make sure the rear panel power switch is set to the ON position.
- 2. Attempt to power on the MV-5 with the front panel Standby button and remote control ON button.
- 3. Examine the power cord to ensure a good connection between the rear panel AC input connector and the wall outlet.
- 4. Check the electrical circuit and breaker.

The remote control does not work.

- Make sure that the remote control touch screen is in the "LEX" or "Zone 2" menu layers. The remote control is a universal control designed to operate all of the home theater equipment in your system. In order to control the MV-5, the remote control must be in the "LEX" or "Zone 2" menu layers.
- 2. Eliminate obstructions between the remote control and the front panel IR receiver. When the rear panel IR IN connector is not in use, the remote control must be in line of sight with the front panel IR receiver for proper operation. The remote control might also become unreliable if strong sunlight or fluorescent light is shining on the MV-5's IR receiver.
- 3. Make sure the remote control batteries are correctly inserted with the proper polarity.
- 4. Replace the remote control batteries. When the batteries are low on power, the remote control enters a low-voltage condition that prevents it from operating the MV-5.
- 5. If using the optional RF-1 Receiver, ensure that it is properly connected to the MV-5 rear panel.

The MV-5 is powered on, but there is no audio.

- 1. Make sure that the source device is powered on, playing audio, and set to the right output connector.
- Make sure the volume level is audible. Volume level can be adjusted with the front panel volume knob or the remote control VOL ▲ and buttons.
- 3. Make sure the audio has not been muted. The message "MUTE ON" is displayed on the on-screen and front panel displays when audio has been muted in the Main Zone. In addition, the MUTE button on the front panel lights red when the Main Zone mute is active and green when the Zone 2 mute is active. If both Zones are muted, the Mute button lights amber. To deactivate mute, press the MUTE button or adjust the volume level.
- 4. Verify that all rear panel input and output connections are correct.
- 5. Check the INPUT SETUP menu DIG AUDIO and ANLG AUDIO parameters to ensure the appropriate audio connector is assigned to the selected input.
- 6. Verify that the incoming audio signal is compatible with the input chosen.

Note: The rear panel input connectors marked S/PDIF INPUTS (RCA & TOSLINK connectors) are not compatible with MP3 sources.

The Subwoofer(s) distorts frequently.

The likely cause for the subwoofer(s) to distort is either an incorrectly set output level or the subwoofer high-pass filter is set too low. Verify that the SUB/LFE LPF setting (subwoofer cross-over point) is set correctly. If correct, try setting the SUB HPF setting to a higher value to resolve the issue. Refer to *Section 3: Setup* for more information.

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A humming sound is present in the audio.

- 1. If a cable TV connection is present, disconnect the cable from the wall outlet. If this eliminates the humming sound, a ground loop isolation device is required. Contact your dealer or cable provider for assistance.
- 2. Disconnect components one at a time to isolate the problem. Once the problem is identified, make sure the associated component is properly grounded and connected to the same electrical circuit as the MV-5 Processor.

RF interference is present in the audio or video.

- 1. Make sure the MV-5 is not positioned too close to RF-emitting devices.
- 2. Move such items one at a time to isolate which device is causing the problem.
- 3. Replace unshielded cables with shielded cables wherever possible.

Audio sounds distorted when using analog audio inputs.

The likely cause for distorted audio while using the analog audio inputs is that the input voltage is too high. The MV-5 analog inputs have a maximum rating of 2 Vrms. Any input voltages higher than this limit will exhibit audible distortion.

To correct the problem, reduce the analog audio output from the connected device using the volume or level control. If neither is available, an intermediate device may be required. Contact your Lexicon dealer for assistance.

In the SEMI AUTOCAL Test, the Far Field Test keeps failing.

1. Ensure that the microphone is placed in your preferred seating location.

Troubleshooting & Maintenance

- 2. Ensure that the volume is set to -20dB.
- 3. In the Speakers Menu, ensure that none of the speakers connected to the system have a cross-over selection of NONE.

During the Far Field Test, test tones are sent to ALL speaker locations, regardless of the settings identified in the Speakers menu. Therefore, every speaker that is plugged in MUST have a cross-over setting other than NONE for the Far Field test to be successul. If a cross-over is set to NONE but the speaker is plugged in, the test will fail because it will "see" a speaker that is identified as having no cross-over point.

4. Refer to the "AUTOCAL Error Messages" section found later in this chapter for more information about specific error messages related to the AUTOCAL process.

The volume won't go to the +10 dB maximum level.

The speaker output level settings may affect the maximum volume level of the MV-5 Processor. The maximum volume level is ± 10 dB minus the maximum output level setting of any speaker. Thus, if your front L/R output levels are set to ± 3 dB, the maximum allowable volume level is ± 10 dB minus 3 dB, or ± 7 dB.

The picture on the video monitor is all one color.

This is a synchonization problem when using HDMI. When the source device and video monitor do not sync correctly, the color spacing may not load correctly. When the monitor color is all red, or all green, it means that only half of the color spacing data was loaded into the video monitor.

To correct the problem, simply enter the OSD menu and then exit out again. This will resync the video and should clear the error.

The MV-5 is powered on, but there is no video.

- 1. Examine the video cables particularly the S-Video cables to ensure a good connection to the associated component.
- 2. Check the INPUT SETUP menu VIDEO IN parameter to ensure the appropriate video connector is assigned to the selected input.
- 3. Set the V-PROCESS parameter to BYPASS. This setting doesn't apply any video processing and outputs the signal in the same resolution and format as the incoming signal.
- 4. Refer to the "Video Error Messages" section found later in this chapter for more information about specific video-related error messages.
- 5. Verify that the selected output is not analog with a HDCP (High-Bandwidth Digital Content Protection) input source. Source material that carries HDCP encoding is only available through the HDMI output. No video is output on the analog output connectors.
- 6. Verify that the input type selected on the video monitor matches the selected output on the MV-5.

Video is shifted to the left.

When the MV-5 has both component and HDMI cables connected to a video monitor with the Faroudja processing active, the Faroudja processing may cause the video to shift to the left when the component output is selected, particularly at higher resolution settings.

To correct the issue, change the Display CONNECTION parameter from HDMI/DVI to ANALOG, or unplug the HDMI cable.

To change the CONNECTION parameter:

1. Enter the OSD menu by pressing MENU on the remote control.

- 3. Using the cursors, highlight and select DISPLAY SETUP.
- 4. Then select CONNECTION. The parameter selection starts to flash.
- 6. Press EXIT to close the OSD menu.

The MV-5 is exhibiting erratic behavior.

- 1. Change to a different input, then return to the original input. This may clear the discrepency.
- 2. Put the MV-5 into Standby mode. Wait 10 seconds. Then take the MV-5 out of Standby mode.
- 3. Set the rear panel power switch of the MV-5 to the OFF position. Wait 10 seconds. Then set the rear panel power switch to the ON position.
- 4. With the MV-5's rear panel power switch set to OFF, power-cycle all other devices that are connected to the MV-5, such as DVD & CD players, projectors, and monitors. When finished, restore power to the MV-5 by setting the rear panel power switch to the ON position and then taking the MV-5 out of Standby mode.
- 5. If the steps above do not resolve the behavior, document all user-defined settings on the Installation Worksheet that begins on page D-2. Then, follow the instructions found later in this chapter to restore factory default settings.

Lexicon

VIDEO IN is set to NONE, but the monitor has a video error, or is showing a blue screen.

When the VIDEO IN parameter is set to NONE, the MV-5 outputs a blue screen at 480i resolution. This blue screen cannot be disabled. If the monitor does not support 480i resolution, the monitor may display an error message.

Note: This condition can also exist when the VIDEO IN parameter has been setup, but there is no active incoming signal.

The 2-line OSD display does not appear on the video monitor.

- Verify that the 2-line OSD parameter under the Setup -> Display Setup -> On-Screen Display menu is not set to OFF.
- Verify the video input source. The 2-line OSD is supported only at 480i and 576i resolutions when the incoming video source is digital.

While using HDMI connections, the video monitor is behaving oddly.

Connecting together all the components of your home theater system with HDMI depends upon every piece of equipment functioning in synchronization. If the timing of any one piece is out of sync, then odd results can occur. For example, an out-of-sync source might cause incorrect colors to appear on the screen, or to shift all of the video to the left or towards the top of the screen. If the video monitor sync is off, it might load the color spacing incorrectly so that the screen appears to be all one color, instead of displaying normal color. In short, an out-of-sync signal can cause a number of very odd results.

To correct the problem, the system needs to resync, which should clear the error. Some out-of-sync issues are easier to clear than others. Typically, power cycling the MV-5 will clear it, but some sync issues don't need a power cycle to re-sync correctly. We suggest that you try the following:

- 1. Enter the OSD menu and then exit out again. This will resync the video.
- 2. Put the MV-5 into Standby mode. Wait 10 seconds. Then take the MV-5 out of Standby mode.
- 3. Power cycle the MV-5 by turning off the rear panel power switch, wait at least 10 seconds, and then turn the rear panel power switch to the ON position.
- 4. With the MV-5's rear panel power switch set to OFF, power-cycle all other devices that are connected to the MV-5, such as DVD & CD players, projectors, and monitors. When finished, restore power to the MV-5 by setting the rear panel power switch to the ON position and then taking the MV-5 out of Standby mode.

The MV-5 is connected via USB to the PC but the computer is playing with the sound card, not the MV-5.

This condition may exist if the media player was already active when the USB cable was connected between the computer and the MV-5 Processor. With the media player actively playing, it may not "see" the USB connection. Close the media player, check the cable connections, and then launch the media player again. Now it should see the USB connection and switch control to the MV-5.

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Using the PC input, the remote control commands on page 4 of the LEX menu and page 2 of the ZONE 2 menu do not work.

- 1. Make sure that the computer is properly connected to the USB input of the MV-5 Processor.
- 2. Make sure that PC is selected as the active input on the MV-5 Processor.
- 3. Make sure that the media player has been opened on the computer and is playing audio.
- 4. Make sure the media player is the "top" or active screen on the computer. The MV-5 remote control will not operate the media player if it is minimized or "behind" other programs.

CAUTION!

Do NOT power cycle the computer while connected to the MV-5 with the PC input selected. The computer MUST be on and connected to the MV-5 rear panel USB jack BEFORE selecting the PC input on the MV-5. Selecting the PC input first may cause a burst of loud noise that may be damaging to the speakers or the listener's hearing. Harman Specialty Group assumes no responsibility for damage caused in this manner.

The iPod does not play or respond to commands from the MV-5 remote control.

- 1. Make sure that the Dock is properly connected to the MV-5 Processor.
- 2. Make sure that the Dock is selected as the active input on the MV-5 Processor.
- 3. Make sure that the touch screen of the MV-5 remote control is in an iPod control page of the "LEX" or "ZONE 2" menu layer.

The iPod's front panel display and controls do not operate when the iPod is docked and the DOCK input is selected as the MV-5's active input.

This is normal behavior and does not indicate a problem with the iPod, the Dock, or the MV-5 Processor. Use the MV-5 remote control to navigate the iPod functions. Refer to *Section 5: PC & Dock Controls*, for further information.

The iPod does not seem to be functioning correctly.

Verify the video input setting of the Dock input in use. If the video input is set to an HDMI input source, the functionality of the iPod may be hindered.

If all else fails...

1. Document all user-defined settings on the Installation Worksheet that begins on page D-2. Then, refer to the "Restoring Factory Default Settings" section found later in this chapter to reset the MV-5 to the factory settings.

Note: If you want to save your settings before restoring the factory defaults, you must save them manually. The Installation Worksheet in Appendix D has been provided to assist you.

- 2. Contact an authorized Lexicon dealer.
- 3. Contact Lexicon customer service at www.lexicon.com or 781-280-0300.

Note: Visit the knowledgebase at http://www.lexicon.com/kbase for answers to frequently asked questions and additional troubleshooting information.

MV-5

MV-5 ERROR MESSAGES

MV-5 error messages are displayed on the OSD when certain error conditions exist. This section explains what each of these error messages means and how to fix each problem.

VIDEO ERROR MESSAGES

The following error messages apply specifically to video issues.

VIDEO PROCESS ERROR

This error message will display when the incoming datastream is at a higher resolution than the resolution of the VIDEO OUT parameter. The MV-5 can up-sample a lower resolution to a higher resolution. However it can not down-sample to a lower resolution setting. VIDEO PROCESS NOTICE

Video input resolution can not be higher than video output resolution when set to FAROUDJA. Please adjust settings.

PRESS > TO CONTINUE

To correct the problem, right click to return to the VIDEO OUT Setup parameter and change the VIDEO OUT parameter to AUTO or to a resolution setting that is higher than that of the incoming datastream.

VIDEO FORMAT OUTPUT ERROR

This error message will display when the MV-5 is connected to an HDMI video monitor but the VIDEO OUT parameter is set to a resolution that is not supported by the HDMI video monitor.

To correct the problem, right click to return to the VIDEO OUT Setup parameter and change the VIDEO OUT parameter to AUTO or to a resolution setting that is supported by the video monitor.

HDCP VIDEO ERROR

This error message will display when the video monitor is not HDCP compliant and the incoming datastream requires HDCP compliance. Typically, any HDMI source will require a HDCP compliant video monitor.

To correct the problem, change the incoming datastream to a non-HDCP source or change the video monitor to one that is HDCP compliant.

VIDEO OUTPUT NOTICE

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Video output resolution not supported by HDMI monitor. Please select a different VIDEO OUT resolution.

PRESS > TO CONTINUE

HDCP NOTICE

Display is not HDCP Capable

Lexicon

Troubleshooting & Maintenance

CHANGE MONITOR MESSAGE



This error message flashes on the 2-line OSD and front panel display when an analog signal is being sent to an HDMI monitor.

To correct the problem, change the video monitor setting to an analog input source.

AUTOCAL ERROR MESSAGES

The following error messages apply specifically to error conditions that exist during the AUTOCAL or SEMI AUTOCAL procedures, or that pertain to the saved AUTOCAL settings.

MICROPHONE OVERLOAD ERROR

MICROPHONE OVERLOAD

This error message will display when the microphone is placed too close to the speaker grille of the speaker under test during the Far Field, Near Field, or Subwoofer Tests.

position and lower volume 6dB.

BACK TO SPK/EQ SETUP

Verify microphone

REPEAT TEST

CAUTION!

If the microphone is too close to the speaker during testing, damage to the speaker or microphone may result.

To correct the problem, move the microphone further away from the speaker under test and repeat the test.

FAR FIELD ERROR

This error message will display when the microphone does not detect sound from a speaker that has a cross-over setting other than "NONE" during the Far Field Test.

To correct the problem, check the microphone position, verify the speaker cables are connected properly, verify that the volume level is correct, and repeat the test. FAR FIELD ERROR Speakers detected: FRT-L: NO SIDE-R: NO CENTER: YES REAR-R: YES FRT-R: YES REAR-L: YES SIDE-L: YES Verify mic position and spkr connections. If OK, raise volume 5dB. REPEAT TEST BACK TO SPK/EQ SETUP

NEAR FIELD ERROR

This error message will display when the Near Field test has failed. Typically, this failure occurs because the microphone is not in the proper position or the volume setting is too low.

To correct the problem, verify that the microphone is within two feet of the speaker under test, verify the speaker cables are connected properly, verify that the volume level is correct, and repeat the test. NEAR FIELD AUTOCAL ERROR

Verify mic position and spkr connections. If OK, raise volume 5dB.

REPEAT TEST BACK TO SPK/EQ SETUP

MV-5

SUBWOOFER CAL ERROR

This error message will display when the Subwoofer test has failed. Typically, this failure occurs because the microphone is not in the proper position or the volume setting is too low.

To correct the problem, check the microphone position, verify the subwoofer cables are connected properly, verify that the volume level is correct, and repeat the test. SUBWOOFER CAL ERROR Subwoofers detected:

SUBWOOFER 1: NO SUBWOOFER 2: NO Verify mic position and sub connections. If OK, raise volume 5dB.

REPEAT TEST BACK TO SPK/EQ SETUP

Note: If you are using a powered subwoofer, verify that it is powered on.

CROSS-OVER CHANGE WARNING

This warning message will display the first time each speaker or subwoofer cross-over is manually changed from the AUTOCAL or SEMI AUTOCAL settings.

Press the cursor button on the remote control to clear the warning message. When cross-over changes are complete, run the SEMI AUTOCAL procedure. CAUTION

Changing these settings will affect the autocalibration.

Run SEMI AUTOCAL after changes are made.

RETURN TO MENU



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MV-5 PROCESSOR







MV-5 PROCESSOR





MV-5 PROCESSOR

















