

# A Guide to Getting Sound

[Rev 10/2017]

# **Restart the Computer**

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PLEASE DO NOT REMOVE FROM 223

#### Audio MIDI Setup for 223 **HD** Native Output **Configure Speakers** > > Stereo | Multichannel Use this device sound input L<sub>1</sub> R2 Use this device sound output 1L 2R 3C 4Ls 5Rs 6Sub Built-in Line Input 8 Multichannel 5.1 Surround Stereo 0 Built-in Digital Input ₽ For each speaker, choose the device channel connected to the speaker. To test the connection, click a speaker to play a sound. Built-in Output tut sub-woofer Built-in Line Output right front 6 left front Built-in Digital Output HD Native 紧 Built in Aggregate I/O After Effects 13.5.1 right surround 5 4 ٢ ? Done Configure Speakers. + - \*~ Audio Devices $\bigcirc$ $\bigcirc$ $\bigcirc$ Built-in Line Input 2 in/ 0 out Stereo Multichannel Built-in Digital Input 2 in/ 0 out ₽ For each speaker, choose the device chann connection, click a speaker to play a sound ed to the speaker. To test the Built-in Output Built-in Line Output left front right front Built-in Digital Output HD Native Built in Aggregate I/O • After Effects 13.5.1 ? Done Apply 6: 7: 8: 9: Configure Speakers... + - &-

### AvidAudioServer Hardware Settings

Hint: These settings are relevant even if you're not using ProTools. So check them as you start working.

You can use AvidAudioServerLauncher to view the hardware settings for AvidAudioServer. This can also be seen within ProTools at Setup>"Hardware..." Yet a third way to access this page is through "configure device" on the Audio MIDI setup page. Once there...

On the Main Tab settings should be as follows:

# Use C/24 Stereo Routing (L/R to 1/3)

<u>Main Tab:</u>	<u>Input</u>	<u>Output</u>
	An 1-2	Mon 1-2
	An 3-4	Mon 3-4
	AES/EBU 1-2	Mon 5-6
	ADAT 1-2	Optical
		Hardware Setup

Image: Section of the section of th	HD OMNI #1	Main Analog In Analog Out	Monitor Mixer
	HD Native, Port 1 Clock Source: Internal Loop Master: HD OMNI #1 Sample Rate: 44.1 kHz Suffer Size: 1024 Use Cl24 Routing (1/3) Use X-Mon Routing (1/5)	Main       Analog in       Analog Out         Input       Input         1-2       Analog 1-2       **         3-4       Analog 3-4       **         5-6       AES/EBU 1-2       **         7-8       ADAT 1-2       **         Digital 1-2 Input Format:       •       AES/EBU         S/PDIF       Optical (S/PDIF)       Sample Rate Conversion         Ext. Clock Output:       Word Clock (44.1 kH)	Monitor     Mixer       Output

#### Analog Out Tab:

#### All set to Line +24dBu

#### Monitor Tab:

Analog DB 25			
	1234	56	
5.1	Stereo L C R L	s Rs LFE	
	Hardware Setup		
Peripherals HD OMNI #1 HD Native, Port 1 Clock Source: Internal Loop Master: HD OMNI #1 Samela Bate: 44.4 ktp	Interface: HD OMNI           Main         Analog In         Analog Out         Monitor           CR Path         Format         Fold-Down         1         2         3         4         5           MAIN         5.1         Stereo         L         C         R         Is Rs         L           ALT         Stereo         Mono         -         -         Is Rs         -	Mixer 25) AES/EBU (DB-25) Dig 6 7 8 1 2 3 4 5 6 7 8 1 2 FE L R I I I I I I I I I I I I I I I I I I	
Buffer Size: 1024	Engage Fold-Down for ALT		
Use C 24 Routing (1/3) Use X-Mon Routing (1/5)	Control Room Fold-Down: Do Not Fold Down Between CR Paths		
	Headphone Fold-Down: Fold Down if Control Room is Larger than Stereo	<b>v</b>	
Identify			
		ок	

## **ProTools Playback/Project Creation**

- Start Session with I/O config "223 (2017)"
- Double check that your PLAYBACK ENGINE is "HD Native"

In older versions we had an issue where "HD Native" was occasionally not available as a choice. This would happen when other software wasn't releasing the engine. This is not really an issue anymore. But if for any reason "HD Native" is unavailable, restarting the computer will resolve most possible causes of this.

# ProTools I/O Settings

- If you are playing back a project that has come from another system be aware that you may have to reconfigure your outputs.

For Stereo	L/R > 1/3
For 5.1	L C R Ls Rs LFE
	123456

# Playback From Software Other than ProTools

For software that uses core audio devices but **does not give the user any audio options**, playback should be straight forward and easy as long as you've double checked a couple system wide settings already detailed earlier in this manual. Such software would include iTunes and most general use applications.

- Double check Audio MIDI setup
- Double check Hardware settings using AvidAudioServerLauncher

For stereo audio Software using Core Audio without any settings available playback will be as follows

- Output will be on HD OMNI 1 + 3
- D Command metering will be on 1 + 5

#### For software that uses core audio and has audio options

**available** use "HD Native" as your device and output 1,2 for L,R stereo operation. Each software will have different menu structures and possibly more or less available relevant menu choices. Once you've made your selections correctly, stereo audio Software using Core Audio will behave as follows:

- Output will be on HD OMNI 1 + 3
- D Command metering will be on 1 + 5

#### Specific settings for some of our available software

**OZone** gives the choice of devices but no routing choices. Find Edit>Audio devices> "HD Native" Simply selecting "HD Native" will default to the correct routings as long as your other settings are correct.

**RX** however does have routing options and they need to be set correctly. Go to Preferences>Audio.

Output device>"HD Native" Input device>"HD Native" Output Channels> 1,2

	Preferen	ces		
Audio Displa	y Keyboard Mis	c Auth & Update	s Plug-ins	?
Driver type	CoreAudio	▼	Output gain [di	B]
Input device	HD Native	V		
Output device	HD Native	<b>V</b>		
	Channel routing 🗸	Release when not in	use	
Buffer size	4096	▼		
Volume [dB]	Test tone			
Tupo	Channel Identification	-12.0		
Type	Channel Identification			
Frequency [Hz]		400.0	0.0	
Reset		Cance	і ок	
● ○ O	Channel	Routing		
Outpu	t L / mono Channel 1		7 2	
a stand and a s	Output R Channel 2			
Inpu	t / mono Channel 1			
inpu	Input R Channel 2			
R	set	Cancel	OK	
		Cuncer		

For **Ableton Live** Go to Preferences>Audio. You'll find settings for input and output devices and below that access to "output config"

#### Use HD Native for your devices Use Output 1/2 for your main outputs

000	Preferenc	ces		
Look Feel	Audio Device		Creating Beats	1.1.1.1.1.1.1
Audio	Audio Input Device	HD Native (8 In, 10 Out)	Output Confi	g
Link MIDI File	Audio Output Device Channel Configuration	HD Native (8 In, 10 Out)	Choose which audio hardware outputs to make availal can be used as one stereo out and/or two mono outs.	ble to Live's tracks. Every output pair Deactivating outputs reduces the
Folder Library	Sample Rate	96000 ▼	CPU load.	1/2 (stereo)
Record	Default SR & Pitch Conversion	High Quality	3 (mono) & 4 (mono)	3/4 (stereo)
Launch	Buffer Size	512 Samples	5 (mono) & 6 (mono) 7 (mono) & 8 (mono)	5/6 (stereo) 7/8 (stereo)
CPU	Input Latency Output Latency	26.7 ms	9 (mono) & 10 (mono)	9/10 (stereo)
Maintenance	Driver Error Compensation	0.00 ms		
	Test			
	Test Tone Tone Volume	Off		
	Tone Frequency	440 Hz		
	CPU Usage Simulator	<u>50 %</u>		
			Сок	Cancel

For **Melodyne** under Preferences find the "Audio" page. There you can set the device to "HD Native" and the channels to "1-2"

8 🔘	Preferences	
Audio		\$
Audio device:	HD Native	\$
Sample rate:	44.100 kHz	\$
Buffer size:	1024 Samples	\$
	Ignore buffer underruns	
Master output:	1-2 \$	
Default input:	1-2 \$	

# BD/DVD/CD Playback from OPPO

-On D Command choose "ALT Surr"

-Metering format on both D-Command + Mytek will be:

1 2 3 4 5 6 7 8 L C R Rs Ls LFE

- If you get no audio double check that both the APHEX and MYTEK are powered on. Also verify on MYTEK that the "Source to Analog out" is selected to be "Analog"
- The signal present LED's on the APHEX will be active and in LCRLsRsLFE format

# Pyramix

- Choose 'AES/EBU" for source to analog on MYTEK
- Choose "ALT SURR" on D-Command