

Pro Tools - Focusrite RED4Pre Surround Sound setup

Connect thunderbolt 2 to thunderbolt 3 adapter to the iMac

Focusrite Control version 2.3.4 is on software in the protocols folder

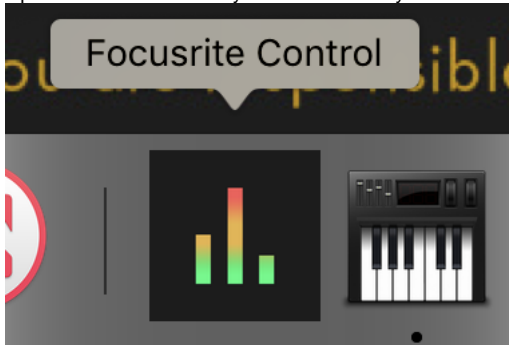
NOTE DON'T GO TO THE WEBSITE AND INSTALL REDNET THAT WE DON'T NEED IT'S FOR DANTE STUFF!! GET THE INSTALLER OFF SOFTWARE WITH THE GREEN DOT

Install that application

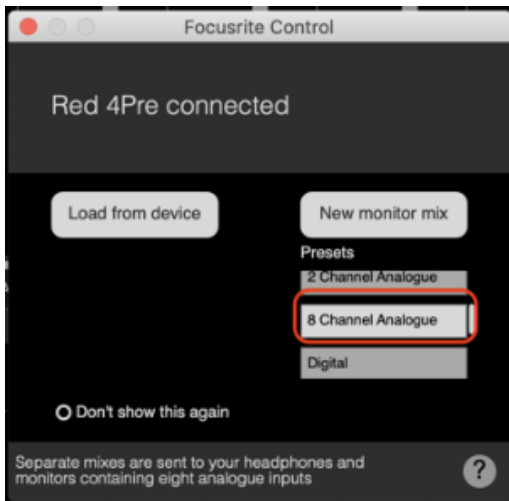
Update the Firmware when you are prompted

The update will download and then power off the Focusrite 4 and reboot the device and start the upgrade. Be patient you will get a No Device Connected for a few seconds but don't touch anything. Upgrade will start on it's own in a moment.

Open Focusrite Control if you haven't already



You will be prompted with this dialog box

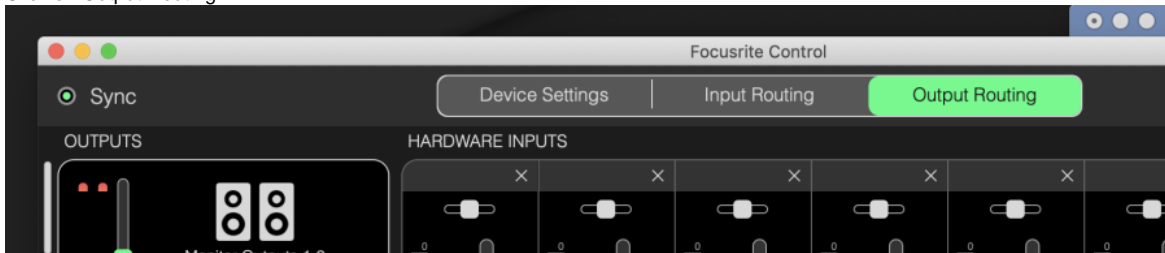


Choose 8 Channel Analogue

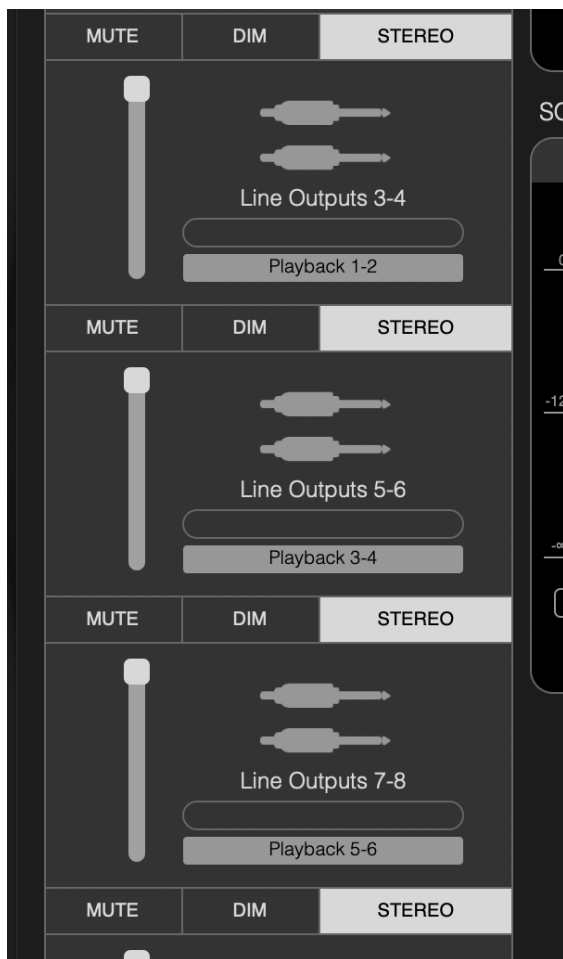
Note make sure that the Focusrite is synced to internal – Clock Source – Internal or else you won't hear anything coming out of the speakers



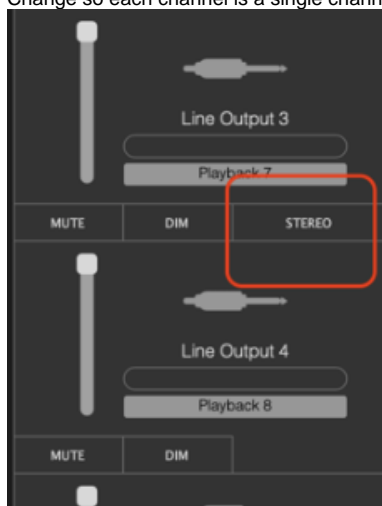
Click on Output Routing



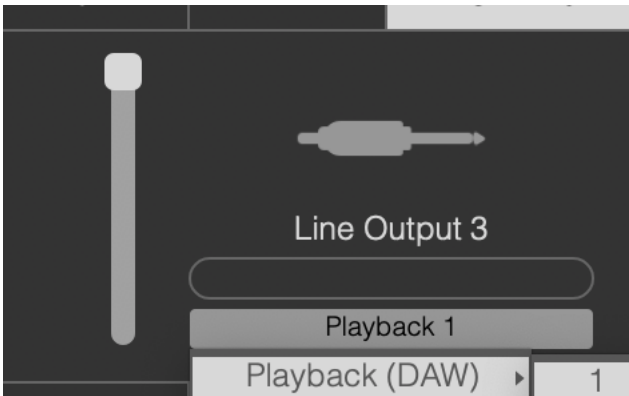
Change Line outputs from stereo to mono do this for 3-4 and 5-6 and 7-8



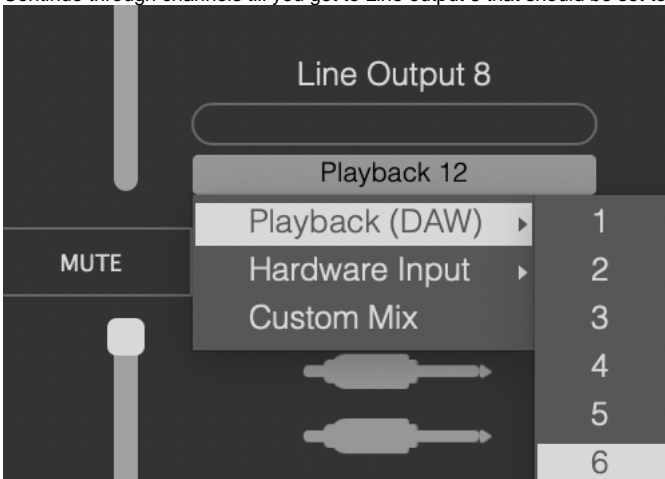
Change so each channel is a single channel see that stereo is not selected anymore in framegrab below



Then change every output from 3 to 8 and need to set that to the start with line output 3

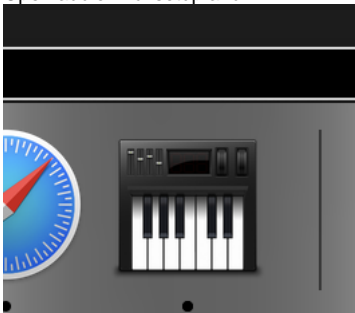


Choose > Playback > Playback DAW – channel 1 example above
 Output 4
 Choose > Playback > Playback DAW – channel 2 example above
 Output 5
 Choose > Playback > Playback DAW – channel 3 example above
 Output 6
 Choose > Playback > Playback DAW – channel 4 example above
 Output 7
 Choose > Playback > Playback DAW – channel 5 example above
 Output 8
 Choose > Playback > Playback DAW – channel 6 example above
 Continue through channels till you get to Line output 8 that should be set to 6

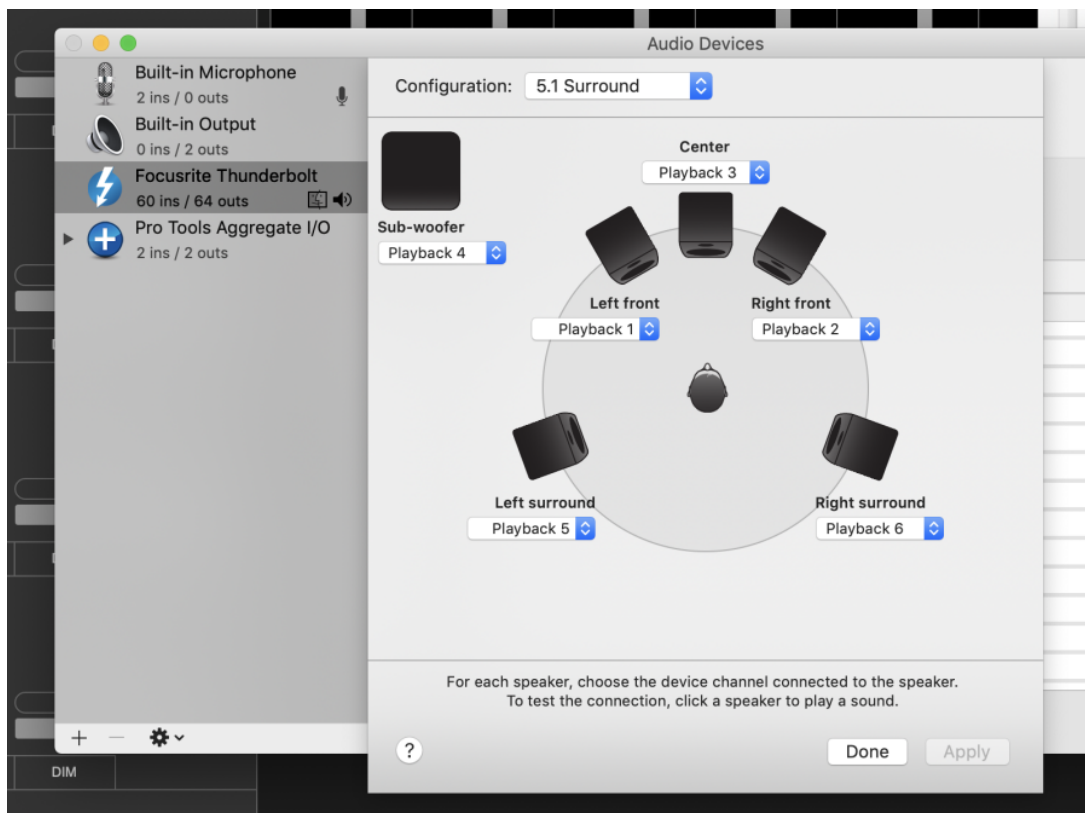


Playback DAW 2 for Line output 4 and so on till you get 6 channels out

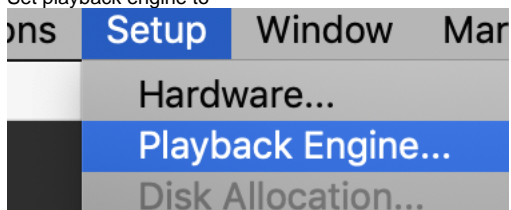
Open audio midi setup and

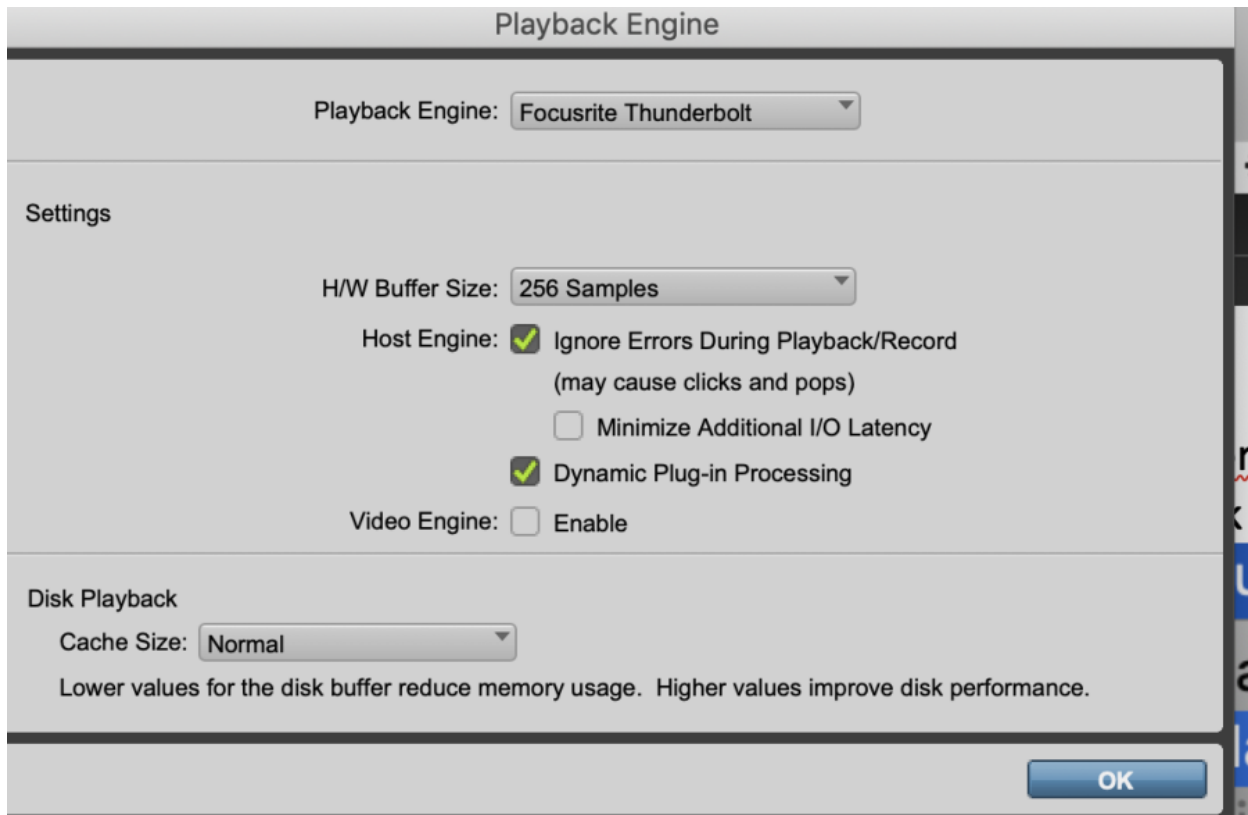


>Focusrite Thunderbolt and 5.1 surround config
 Each speaker output should send a signal to this cable



Next open protocols ultimate to get 8 channels output
Set playback engine to

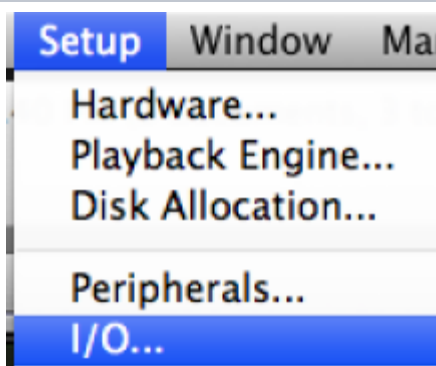




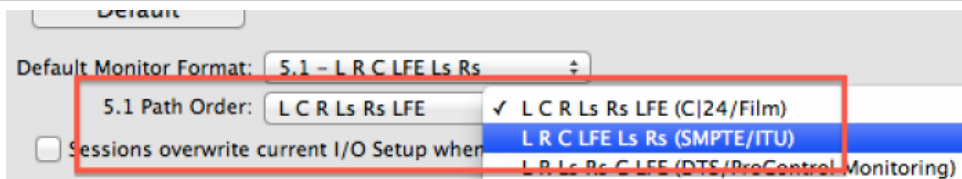
Set to Focusrite Thunderbolt

<p>>Go to >Setup>Hardw are</p>	
<p>Set it to Focusrite Thunderbolt</p> <p>Click OK</p>	

Click on
>Setup>I/O



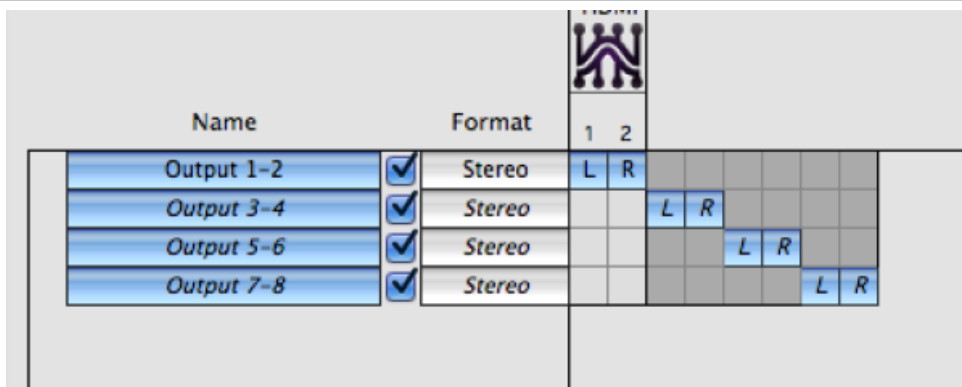
Click on the
5.1 path order
and make sure
the L, R, C,
LFE, Ls and
Rs are
selected



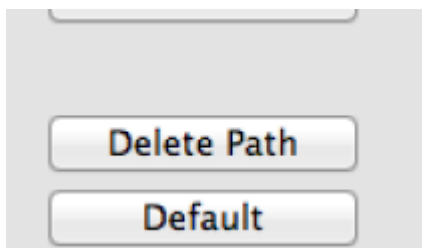
**NOTE IF YOU
DON'T SEE
5.1 OPTIONS
YOU ARE
NOT IN
PROTOOLS
ULTIMATE
CHECK ILOK
TO MAKE
SURE**

**YOU HAVE A
LICENSE
ACTIVE**

Select all the
outputs and
delete them.

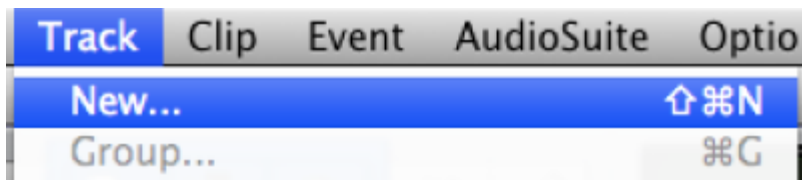


After all the
outputs are
selected click
delete path

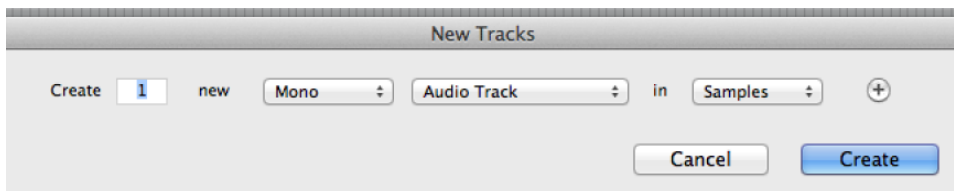


Click Delete	<div><div></div><div><p>The output path "Output 1-2" is currently being used in the session. If you continue, all assignments to that path will be removed. Volume, mute, and pan automation may be deleted on affected tracks.</p><div><div>Cancel</div><div>Delete</div></div></div></div>																		
Click on "New Path"	<div><div>New Path...</div></div>																		
Choose to create 1 new track 5.1 and path = Output	<div><div>New Paths</div><div><div>Create</div><div>1</div><div>new</div><div>5.1</div><div>path</div><div>Output</div><div>+</div></div><div><input checked="" type="checkbox"/> Add default channel assignments</div><div><div>Cancel</div><div>Create</div></div></div>																		
The channels will auto populate	<div><div>I/O Setup</div><div><div>Input</div><div>Output</div><div>Bus</div><div>Insert</div><div>Mic Preamps</div><div>H/W Insert Delay</div></div><div><div><div><div><div></div><div>A - HDMI</div><div>Analog</div></div><table><tr><th>Name</th><th>Format</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th></tr><tr><td><input checked="" type="checkbox"/> Output</td><td>5.1</td><td>L</td><td>R</td><td>C</td><td>LFE</td><td>Ls</td><td>Rs</td><td></td></tr></table></div></div></div></div>	Name	Format	1	2	3	4	5	6	7	<input checked="" type="checkbox"/> Output	5.1	L	R	C	LFE	Ls	Rs	
Name	Format	1	2	3	4	5	6	7											
<input checked="" type="checkbox"/> Output	5.1	L	R	C	LFE	Ls	Rs												
Click OK to Apply	<div><div><div>Cancel</div><div>OK</div></div></div>																		

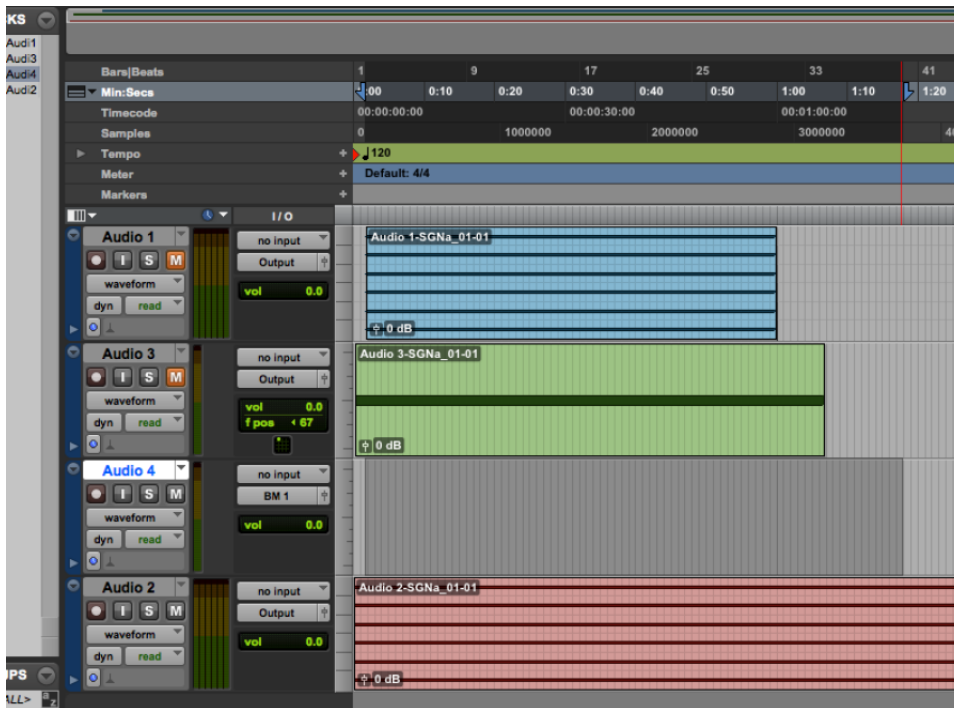
Go to
>Track>New



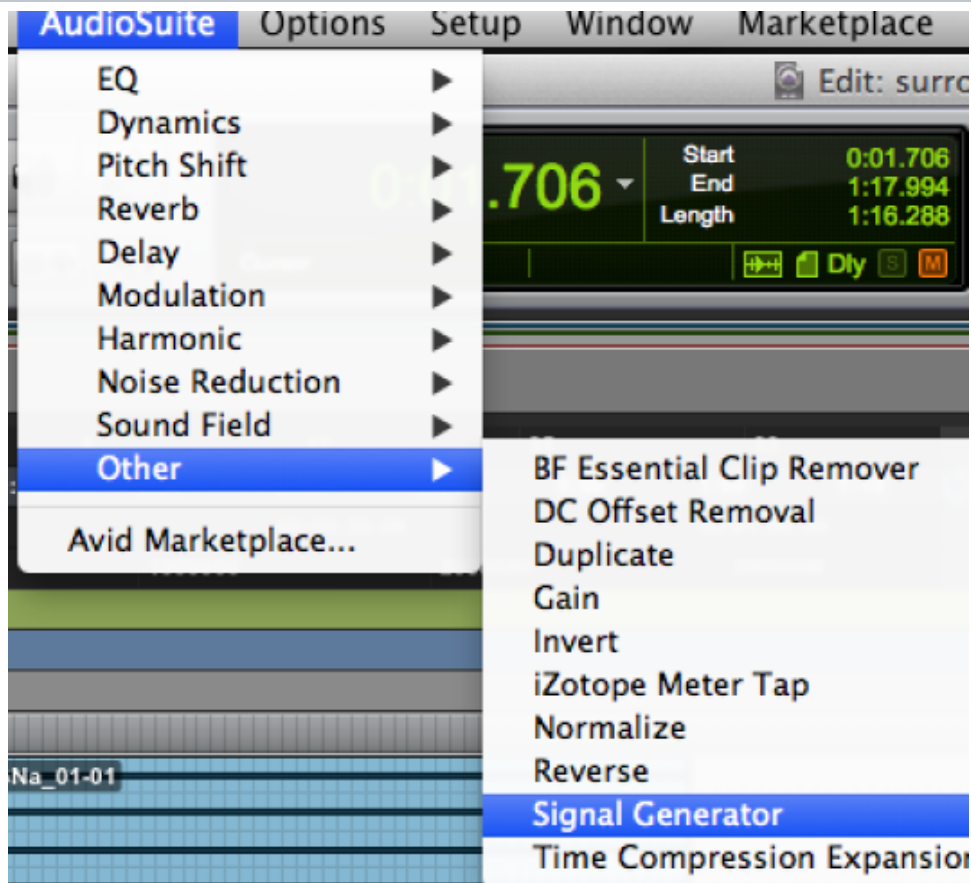
Create a mono
track and
create some
pink noise on
the track to test



On the new
track select a
span of the
clip to create
the white
noise on



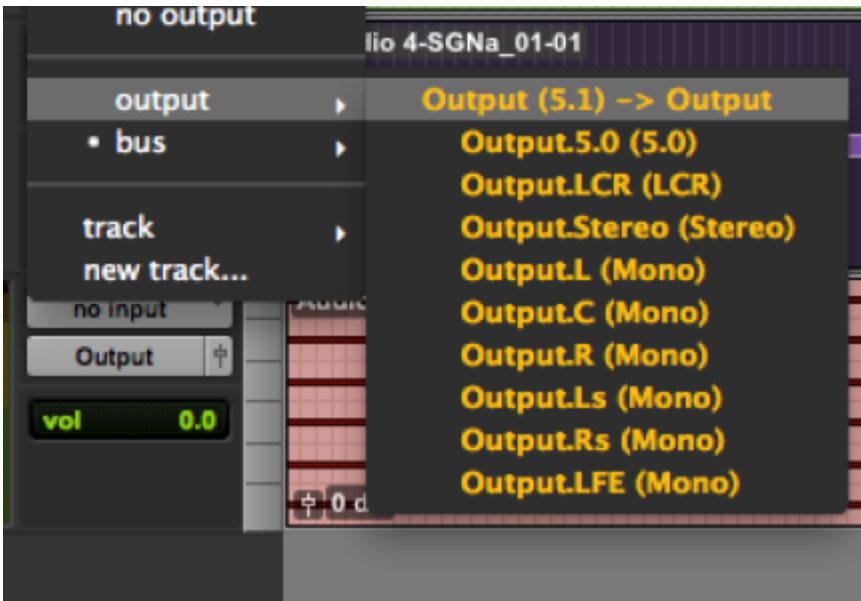
Go to
AudioSuite>Ot
her>Signal
Generator



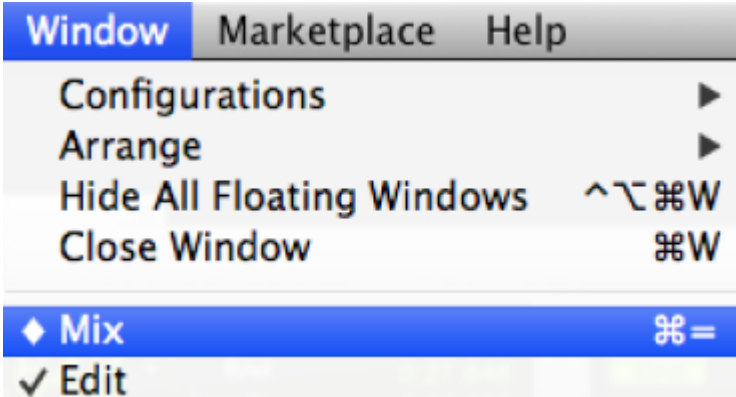
Choose Pink
Noise



Make sure the Output is Yellow and set to Output 5.1 output



Go To >Window> Mix or click "command ="



In the mix window on the track with the 5.1 output you will see the "Multi Channel" Panner window Drag the dot to each corner to test the output of the system should hear the correct panning for left, right LS and RS **NOTE IF THE OUTPUTS ARE WHITE THEN THIS WONT WORK THE OUTPUTS HAVE TO BE YELLOW TO GET THE MULTI CHANNEL PANNER TO WORK**



To see the Multichannel fader larger click on the mini fader



This will open the surround window



Note to check LFE



Go to
Output> Output
LFE You will
have to turn
up the volume
on the
crestron to
make sure you
can hear the
LFE on the test

