ProTools - Video and Audio Monitoring Setup in CMB Grad Suite Edit Labs -

Audio will play through the speakers out of ProTools but must follow these steps

**Unplug the thunderbolt cable to Black Magic Design Thunderbolt Shuttle**

**RESTART THE COMPUTER**

**Plug in the thunderbolt cable**

Blackmagic Shuttle is connected via the Thunderbolt cable to the computer.

Make sure the Headphones are plugged into headphone jack on Mac Pro
Use the TV Remote>

Turn on the Monitor and make sure you select the HDMI input

Make sure the Green cable is plugged into the "Line Output" or the headphone output on the IMacs - cable may not be green just make sure the cable feeding the Aux input on the PreSonus.
Go to the `System Prefs>Sound>Output tab`

Choose the Line Out or Headphone Out (Imacs)
Select the Aux Input and
Turn up the volume.

This Aux Input will also boost audio

Go to >Apple>System Prefs

System Prefs>Blackmagic Desktop Video and click on it
Make sure you see the Intensity Shuttle Thunderbolt or the AVID Artist DNxIO or the Ultrastudio 4K Extreme.
Launch ProTools

When ProTools opens click "Cancel" on the Quick Start Dialog. We do not want to open a session yet.

Need to set up the routing and Playback Engine first.
Go To Setup > Playback Engine

On the Playback Engine Drop Down choose **Built-in Output** (Imacs) or Built In Line Output Mac Pros

Click OK

Now go to Input and Output setup

Go to >Setup>I/O
Click “Default” on the I/O setup

Then Click OK

Now that the routing and hardware is set up open the ProTools session if you have one created already or make a new session.
Navigate to the session and open it or create a new session

To create a new Protools session

Type - Session
Name - (session name)
File Type - .WAV
Bit Depth: - 24 bit
Sample Rate: - 48kHz
I/O last used

Location - set to your hard drive NOT THE DESKTOP!!!!
<table>
<thead>
<tr>
<th>Step</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Next Import the video into the project</td>
<td><img src="image1.jpg" alt="Import Video" /></td>
</tr>
<tr>
<td>Choose Import Video</td>
<td></td>
</tr>
<tr>
<td>Navigate to the video file that you want to view in the ProTools session</td>
<td><img src="image2.jpg" alt="Navigate to Video" /></td>
</tr>
<tr>
<td>Choose to import at Session Start</td>
<td></td>
</tr>
<tr>
<td>Choose to enable the Video Engine</td>
<td></td>
</tr>
<tr>
<td>Click Yes here</td>
<td><img src="image3.jpg" alt="Yes Confirmation" /></td>
</tr>
</tbody>
</table>
If you would like to use the audio off the video file choose to save it to the default Audio Drive folder.

Last step is to open up the Input and Output view in ProTools.

Go to > View> Edit Window Views> I/O >

Choose the format 1080 or 720 23.98fps

Choose the Playback Quality - Note if there is stuttering choose Draft but Full should work.
Make sure all the audio outputs are routed to the Built In Line Output 1-2 Stereo Mac Pros or Out 1-2 Stereo Built In Output 1-2 IMacs.

Then you should see image on the TV and hear audio the speakers.

If you do not see image on the Plasma Monitors redo the entire rebooting process again and make sure you unplug the thunderbolt cable and power cycle the Black Magic Intensity. It should fix it.