Stereo Playback from a Laptop in the CDA Mixing Suite

2025

A pdf version of this guide is available www.concordia.ca/finearts/cda/suites/specialized

Contents:

About this guide: Page 2 Connecting your laptop: Page 3 OMNI panel: Page 4 Using Ableton Live to monitor: Page 5 Using Pro Tools to monitor: Page 19 Multi-Channel Playback: Page 37

About this guide

This guide describes how to monitor a stereo analog signal from your laptop in the CDA VS10 mixing suite.

You can use this method to work on a stereo audio project directly from your laptop.

The HD OMNI audio interface in VS10 will receive a stereo analog signal from your laptop. On the VS10 computer, you can use the audio software of your choice to monitor that input by placing a stereo track in record monitor. In this guide I show how to monitor with Ableton Live and Pro Tools.

Connect your laptop

Connect the stereo 1/8" inch cable, provided for you in the suite, to your laptop's analog headphone output.

This cable is already connected to Inputs 3 and 4 on the back of the AVID OMNI audio interface.

Do not change the inputs on the back of the OMNI.



Play sound from your laptop

In the audio software on your laptop, the audio output settings should be the laptop's headphone output.

Play a track in your software and look for the green LED input lights on the front of the OMNI interface to indicate an audio input on channels 3 and 4.



Switch to IN

Option One Using Ableton Live to Monitor the Input

Using Ableton Live to Monitor the Input

Launch Ableton Live and go to "Settings" which takes you to the Preferences! In Audio Preferences, select the "Pro Tools HD Native Thunderbolt" as the Audio Input and Output Device.



• • •	Preference	ces
Look Feel	Audio Device	- 000000
	Driver Type	CoreAudio 🔻
Audio	Audio Input Device	Pro Tools HD Native Thunderbolt (8 Ir V
Link	Audio Output Device	Pro Tools HD Native Thunderbolt (8 Ir
Tempo MIDI	Channel Configuration	Input Config Output Config
File	Sample Rate	1997 - 1997 -
Folder	In/Out Sample Rate	44100
Library	Default SR & Pitch Conversion	High Quality
Plug-Ins	Latency	
Record	Buffer Size	512 Samples 🔻
Warp	Input Latency	17.4 ms

Using Ableton Live to Monitor the Input

In Audio Preferences, click on the **Input Config** button. In the Input Config, enable inputs 3/4 in both the Mono and Stereo Inputs.

	Preference	ces
Look Feel	Audio Device	
Audio	Audio Input Device	PN ative Thunderbolt (8 Irv
Link Tempo MIDI	Audio Output Device Channel Configuration	Pro To D Native Thunderbolt (8 Ir Input Config Output Config)
File Folder	Sample Rate	44100
Library	Default SR & Pitch Conversion	High Quality
Plug-Ins	Latency	
Record	Buffer Size	512 Samples T.4 ms

Choose which audio hardware in	puts to make available to Live's tracks. Every input pair
can be used as one stereo in and	d/or two mono ins. Deactivating inputs reduces the
CPU load.	
Mono Inputs	Stereo Inputs
1&2	1/2
3&4	3/4
5&6	5/6
	7/9

Using Ableton Live to Monitor the Input

Then select channels 3 and 4 as the **Ext. In** (input) on an audio track. Make sure it is an audio type track, not an instrument track.

And press the **Monitor In** button right below the input to hear the input.

That's it!

Tap 120.00 |||| |||| 4 / 4 O • • 1 Bar • Link Search (Cmd + F) 1 MIDI 2 Audio 3 MIDI Collections Name 200 Delay & Loop Favorites 10 Drive & Color Dynamics Categories Ja Sounds EQ & Filters -BB Drums Modulators 100 謂 100 () Instruments Pitch & Modulation -Ill- Audio Effects Reverb & Resonance THE MIDLEffects Utilities 📛 Max for Live -CE Plug-Ins ► Clips MH Samples ≈ Grooves Templates MIDI From Audio From MIDI Fr Places Ext. In All Ins 1 3/4 All Ch Packs Monitor Monito In Auto Of D Push In Auto Off In O User Library MIDI To Audio To MIDI To No Output Master No Out =: Current Projec + Add Folder... Sends (1) -27.2) 0 0 (1) - 12 - 24 1 5 2 3 S 0 0

Not hearing an Input in Ableton?

Then check the following hardware settings in **Audio MIDI Setup** in Applications/Utilities



In the list of Audio Devices, go to the HD Native Thunderbolt, right click and "Configure Device"



The **Main** tab should look like this (your Sample Rate may be different):

	Interface:	HD OMNI					
HD OMNI #1	Main	Analog In	Analog Out	Monitor	Mixer		
	h	nput		Output	t		
	1-2	Analog 1-2	T	Analo	g 1-2	*	
	3-4	Analog 3-4	T	Analo	g 3-4	-	
ID Native Thunderbolt, Port 1	5-6	None		Analo	g 5-6	T	
Clock Master: Internal	7-8	None		Analo	g 7-8	*	
oop Master: HD OMNI #1							
Sample Rate: 44.1 kHz		igital 1-2 Input Fo	ormat:	Optica	I Output Format:		
uffer Size: 256 V		AES/EBU		•			
Lies Cl24 Pouting (1/2)				0	Optical S/PDIF		
See Cl24 Roduing (1/3)		Optical (S/P	'DIF)	S/PDIF	F Output Format:		
Use X-Mon Routing (1/5)		Sample Rat	e Conversion		Tascam		

The Analog In tab should look like this:

		н	lardware Setu	p		
Peripherals	Interface: I	HD OMNI				
HD OMNI #1	Main	Analog In	Analog Out	Monitor	Mixer	
	Referen	ce Level		Limit	ter	
	Ch 1	🔿 +4 dBu	🔘 -10 dBV	Soft	t Clip 👻	
	Ch 2	🔿 +4 dBu	🔘 -10 dBV	Soft	t Clip 👻	
HD Native Thunderbolt, Port 1	Ch 3	🔿 +4 dBu	🔘 -10 dBV	Soft	t Clip 👻	
Clock Master: Internal	Ch 4	🔿 +4 dBu	🗿 -10 dBV	Soft	t Clip 👻	
Loop Master: HD OMNI #1						
Sample Rate: 44.1 kHz	•					
Buffer Size: 256						
Use C 24 Routing (1/3)						
Use X-Mon Routing (1/5)						

The Monitor tab should look like this:

Peripherals	Interface: HD	OMNI																		
HD OMNI #1	Main	Analog In	Analog Out		М	onito	r	M	ixer	3										
				an c	60	***	211		- 0		9									
	CR Path	Format	Fold Down		/	Analo	g (Di	B-25)			A	ES/	EBL	J (D	B-2	5)		Di	9
HD Native Thunderbolt, Port 1	CK Paur	rormat	Fold-Down	1	2	3	1 5	6	7	8	1	2	3	4	5	6	7	8	1	2
Clock Master: Internal	MAIN	None	None																	
Loop Master: HD OMNI #1	ALT	None	None																	
Sample Rate: 44.1 kHz Buffer Size: 256	Engage	Fold-Down fo	or MAIN or ALT																	
Use C 24 Routing (1/3)	Control Roo	m Fold-Down	t.				27													
Use X-Mon Routing (1/5)	Do Not	Fold Down Be	tween CR Path	ns	-															
	Headphone	Fold-Down:																		
	Do Not	Fold Down (L/	R Channels Or	nly)					Y	Ľ.										

Genelec Controller Settings: Volume

Move the volume knob to activate (wake up) the speakers.

Use the volume knob to listen at a comfortable listening level.

By default, the volume will start at -40 dB.



GLM software

When you log in with your user account, the GLM software will launch automatically with the calibration file. At the time of this writing, the file is called: VS10 Jan 2025.

Do not adjust any of the controls in the software otherwise you may lose the calibration. Simply hide the software (but keep it open).

All the necessary controls can be made physically on the 9320 controller.

If the calibration file does not load see the next page.



If the calibration file does not load, the software will look like this.

You will have to load the file manually (see next page).



Copy the calibration file "VS10 Jan 2025. sam" onto the desktop from this location:

Macintosh HD/ Users/ Shared/ Genelec

•••	< > Genelec		88 😑 🛛			arch	
Favorites	Macintosh HD	Applications	🚞 ai_charl	>	Adobe	8	GLM5
W AIDTOP	😍 Network	E Library	a_usher	>	AdobeGCInfo	×	S10 Jan 2025.sam
Recents		System	🚾 cda	>	Analyzer Cache Files	>	
🗀 CDA Test		Users 👘	cdatemp	>	🔁 Audio Ease	>	
			m_m23307	>	Avid Avid	>	
			in meger	>	AvidVideoEngine	>	
Desktop			phawes	>	EUCON_Application_Setup_v2022.4		
Documents			Shared	>	FB360 Spatial Workstation	>	
Downloads					Cenelec Genelec	>	
					🔺 hd_omni.pdf		
Locations					🚞 Library	>	
C iCloud Drive	1		[11]	11		11	

Open the .sam calibration file in the GLM software.

GLMv5	File	Group Preset	Setup	Setting
	New			
	Open	l		
	Open	Recent	>	
	Save			

Then it should look like this:



Option Two Using Pro Tools to Monitor the Input

Using Pro Tools to monitor the input



Launch Pro Tools.

Create a new Stereo Mix Session

	Dashboard	
	👤 Sign In	
CREATE	Name: laptop session	Name the session.
RECENT	 Local Storage (Session) Collaboration and Cloud Backup (Project, subscription required) 	
PROJECTS	Create From Template	
GETTING STARTED	Template Group: Dolby Atmos	
	THEMAT Dolby Audio Bridge Stereo	
		Ideally you will set the sample rate to the sample rate of your audio project on your laptop (but it can be different).
	File Type: BWF (.WAV) Sample Rate: 48 kHz Bit Depth: 24-bit I/O Settings: Stereo Mix Interleaved	Set I/O Settings to "Stereo Mix"
	Prompt for location Location /Users/cda/Documents/	
Show on startup	Open from Disk Cancel Create	

In the new session, in the top menu, go to Setup/Playback Engine.

¢	Clip	Event	AudioSuite	Options	Setup	Window	Avid Link	Help		
					Hardwa	re				
				-	Playbac	k Engine				
0		→ ₩2>	5 ¹⁰ 7	1.	Disk Alle	ocation			:00.000	
	≡•⊪•	+ ▶	~ ₽ -	•+8 🕀	Periphe	rals			< <u>S</u> M	h
					1/0					

The Playback Engine should be: HD Native Thunderbolt

		Playback Engir	ne
Device	Playback Engine:	HD Native Thunderbolt	
Settings	H/W Buffer Size: Video Engine:	1024 Samples Enable	•
Optimizat	ions ?	Ignore Errors During Playbac May cause clicks and pops Main Playback Engi Aux I/O Dynamic Plug-in Proces Plug-ins only use CPU re Optimize Performance a	ck/Record for: ine sing esources when processing audio it Low Buffer Sizes

The HD Native Thunderbolt is the AVID OMNI interface.

Then go to Setup/Hardware:



The **Main** tab should look like this. It is the Inputs and Outputs that are most important.

	Hardware Setup
eripherals	Interface: HD OMNI
HD OMNI #1	Main Analog In Analog Out Monitor Mixer
	Input Output
	1-2 Analog 1-2 T Analog 1-2 T
	3-4 Analog 3-4 * Analog 3-4 *
0 Native Thunderbolt, Port 1	5-6 None * Analog 5-6 *
lock Master: Internal	7-8 None * Analog 7-8 *
op Master: HD OMNI #1	Digital 1-2 Input Format: Optical Output Format:
ample Rate: 48 kHz	AES/EBU ADAT
	S/PDIF Optical S/PDIF
	Optical (S/PDIF) S/PDIF Output Format:
	Sample Rate Conversion Tascam
	Ext. Clock Output: Word Clock (48 kHz)

The Analog In tab should look like this:

	ŀ	lardware Setup			
Peripherals	Interface: HD OMNI				
HD OMNI #1	Main Analog In	Analog Out	Monitor Mixer		
	Reference Level		Limiter		
	Ch 1 🕘 +4 dBu	-10 dBV	Soft Clip	•	
	Ch 2 🔘 +4 dBu	-10 dBV	Soft Clip	*	
HD Native Thunderbolt, Port 1	Ch 3 💮 +4 dBu	-10 dBV	Soft Clip	-	
Clock Master: Internal	Ch 4 🕘 +4 dBu	-10 dBV	Soft Clip	-	
Loop Master: HD OMNI #1					
Sample Rate: 48 kHz					

The Monitor tab should look like this:

Hardware Setup																			
Peripherals HD OMNI #1	Interface: HD O Main A	MNI nalog in	Analog Out		Mon	itor		Mixer											
				0.7	66"	::::	-		-	9									
HD Native Thunderbolt, Port 1	CR Path	Format	Fold-Down	4	An	alog (l)В-	25) 6 7	•	4	A 2	ES/E	BL	J (DB	-2!	5)	•	Di	g 2
Clock Master: Internal	MAIN	None 🚽	None 🚽		2 3	-	9	0 /	0		2	3	*	9	0		•		-
Loop Master: HD OMNI #1	ALT	None 🚽	None 🚽																
Sample Rate: 48 kHz	Engage F	old-Down for	MAIN																
	Engage F	old-Down for																	
	Control Roon	n Fold-Down:																	
Do Not Fold Down Between CR Paths																			
	Headphone F	old-Down:																	
	Do Not Fe	old Down (L/R	Channels Or	ıly)															

Go to Track/New, to make a new audio track.

🗯 Pro Tool:	s File	Edit	View	Track	Clip	Event	AudioSuite	Options	Setup	Window	Avid Link	He
				New				ΩΩ₩N				
				Group				ЖG				
SHUFFLE SPOT	+ ₩	♣ ≜	•	Duplica	te			T合D		0:00	- 000	Start End
SLIP GRID				Split int	o Mono)			2			Length
	1	2 3 4	5 -	Make In	active				Cursor		₩ -	****
TRACKS				Move to	New F	older		N第合プ				
				Conver	t Aux to	Routing	Folder					
	Bars	Beats		Change	Track	Width		>		17	25	
	⊟* Min:	Secs		Delete					0:	30 0:40	0:50	1:
	Time	code							00	0:00:30:00		0
	Sam	ples		Freeze					000		00000	
	► Tem	ро		Commit				て合く				
	Mete			Poupoo				7- A 92 D				
	🖲 Mark	ers		Bounce	•••			L.D.42 P				
			0° INS	Melody	ne			>				
				Extract	MIDI to	New Tra	ack					
				Save Tr	ack Pre	eset		℃企P				

Make a Stereo Audio Track.

		New Tracks			
Create 1 new Stereo	Audio Track	in Samples	Name: Audio		+
				Cancel	Create

On the audio track make sure that it is displaying the I/O options for the track.

Click on this icon to get the track display options.



Set the track inputs to A 3-4. Outputs to A 1-2.



Then press the monitor record button. You should hear the audio from your laptop.

Genelec Controller Settings: Volume

Move the volume knob to activate (wake up) the speakers.

Use the volume knob to listen at a comfortable listening level.

By default, the volume will start at -40 dB.



GLM software

When you log in with your user account, the GLM software will launch automatically with the calibration file. At the time of this writing, the file is called: VS10 Jan 2025.

Do not adjust any of the controls in the software otherwise you may lose the calibration. Simply hide the software (but keep it open).

All the necessary controls can be made physically on the 9320 controller.

If the calibration file does not load see the next page.



If the calibration file does not load, the software will look like this.

You will have to load the file manually (see next page).



Copy the calibration file "VS10 Jan 2025. sam" onto the desktop from this location:

Macintosh HD/ Users/ Shared/ Genelec

	< > Genelec			88 📰			irch	
Favorites AirDrop Recents	Macintosh HD	Applications Library System	> > >	🚞 ai_charl 🚞 ca_usher 💽 cda	>	 Adobe AdobeGCInfo Analyzer Cache Files 	>	GLM5 VS10 Jan 2025.sam
CDA Test Applications Desktop		Users	2	 cdatemp m_m23307 meger phawes 	>	 Audio Ease Avid AvidVideoEngine EUCON_Application_Setup_v2022.4 	2	
Documents Downloads Locations		п	1	Shared)	 FB360 Spatial Workstation Genelec hd_omni.pdf Library 	>	

Open the .sam calibration file in the GLM software.

GLMv5	File	Group Preset	S	etup	Setting
	New				
	Open	l			
	Open	Recent	>		
	Save				

Then it should look like this:



Multi-Channel Playback

If you require multi-channel playback from a laptop, this is also possible but beyond the scope of this guide.

Request a driver for the AVID OMNI interface from a CDA technician. You must have a laptop with a compatible operating system.

Please contact Phil Hawes: philip.hawes@concordia.ca