HDA-4100 Preamplifier Outputs Explained

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URC HDA devices and software provide countless options to configure and optimize audio settings to achieve performance and flexibility for almost any application.

One of those features is the HDA-4100 Preamplifier Outputs

This article provides a better understanding when using the **Preamplifier Outputs** on the HDA-4100 and details the procedure for configuring the **Preamplifier Output** settings when using Accelerator 3 or TC Flex 2 software.

HDA **Preamplifier Outputs "A" and "B"** need to be assigned to one of the HDA-4100's zones. Preamplifier Outputs "A" and "B" cannot be used as an independent zone output. The Preamplifier Outputs require assignment to an HDA-4100 zone and shall "mock" that zone in audio play.

This is done in **Step 3: Add URC Devices** in both **Accelerator 3 and TC Flex 2** software by **right-clicking** on the HDA-8100 amplifier in the **Project Tree** and selecting **"Properties":**

Device Properties	×							
Name	HDA-4100							
MAC Address	00:1F:B8:43:00:2E							
IP Address	192.168.1.37							
Preamp Assignme	Preamp Assignment							
Output A	Zone 3							
Output B	Zone 4 ·							
12 V Output								
Output A	Turn on/off with pre-out							
Output B	Turn on/off with pre-out							
Split Zone for Two	Mono Zones							
Zone 1	Zone 2 Zone 3 Zone 4							
12v out tracks	12v out tracks with left channel for split zone							
	Apply Cancel							

Once the Preamplifier Outputs have been assigned to a zone, the audio properties of the **Preamplifier Output** match what is set for that zone in Accelerator Step 9e and TC Flex 2 Step 7e. (see image below)

Select Dev	rice with Outputs		Audio Settings: Zone 1LR, I	LivRm	Connect To Zone		
HDA-810 HDA-130 HDA-160	0(Office 8100Z1F #1(Ktch 130#12 0-70V(Bed 1600Z	2) Z1LR) Z1LR)	Zone Type: © Stereo	© Mono			
HDA-IO (HDA-130	Output)(Lake IO #2(Foye'r 130#)	Z1) 2 Z1LR)	Zone Output:	O Fixed			
			Input Change Fade In Time: 1.5 sec	* Apply	Global		
		Volume: Max Volume: 100 %					
			Turn On Volu	ume: OLastUse	d O Preset	100 %	
vailable Zone Outputs		Turn On Vol. Ramp R	late: 1.5 sec		Apply Global		
Output	Room	Add Note	- Filter	nouce			
one 1LR one 2LR	Grouped-Li		◎ Off ◯ High P	Pass O Low Pa	ss		
one3LR	Grouped-Lo		High Pass Filter Settin	ng -	Low Pass Filter	Setting	
one4LR			12 dB/oct	q: 200 Hz -	0 12 dB/oct.	Freq: 200 Hz *	
			O 24 dB/oct. Gai	n: 0.0 dB 👻	○ 24 dB/oct.	Gain: 0.0 dB *	

If a "Full Range" Line Level audio output from the Preamplifier Output is desired, set the "Max Volume" parameter to "100%" and the "Turn On Volume" to "Preset – 100%".

Do not connect speakers to the zone's speaker output for the zone that is assigned to this preamplifier output. The zone's volume output is fixed at 100% - this will most likely damage any speaker connected to this zone. (see pic below)

Audio Settings: Zone 1L Mono, L	anai.	Connect To 2	Zone	
Cone Type:	Mono			
Zone Output:	○ Fixed			
Input Change Fade In	× Appl	ly Global		
Volume:	100 %		•	Apply Global
Turn On Volume: Turn On Vol. Ramp Rate:	Clast Us	ed 🧿 Pres	set 🔹	100 %

Additional Information & Resources:

To learn more about HDA products and programming, please see the HDA Programmers Guide or the Accelerator 3 online Programming Guide.