

TECHNICAL BULLETIN

8500 Balboa Blvd. , Northridge, CA 91329

REVEL XC LANDSCAPE TUNING WITH CROWN CDI DRIVECORE AMPLIFIERS

APRIL 13, 2018

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Overview

Crown CDi DriveCore power amplifiers can be configured for use with Revel Extreme Climate L41XC, L42XC, and L12XC Landscape series loudspeakers. The speaker tuning settings can be entered into the control panel of Crown CDi DriveCore power amplifier using Harman HiQnet[™] Audio Architect Software, version 2.15 or later. The software is available for download at: http://audioarchitect.harmanpro.com/en-US/software

Applying the Speaker Tuning Settings:

1.) Launch Audio Architect Software.

When Audio Architect is first loaded, the software will scan the network for HiQnet devices. All devices discovered on the network will be found under the ADD DEVICES tab in the Devices menu tree.

If the device is not found, the network may not be configured correctly. Verify your network settings in File > Application Options > Network Connectivity > Ethernet Interfaces. Verify your Local Area Connection is listed here. If your local network port is not listed, click "Add Connection" and choose the connection you are using to connect to the same network as the amplifier.

Application Options	
General Settings	Network Connectivity
Hindow Settings	COM Ports
Custom Panel Designer Settings	
早 Network Settings	Ethernet Interfaces Mare IP Address MAC Address DHCP Description I Local Area Connection 2 10.21.18.224 88-51-FB-44-D9-8E DHCP Intel(R) 82579LM Gigabit Network Connection #2
Network Connectivity	
Proxies/Static Routes	
Save To Network	Add Connection Remove Connection
Event Log	
OK Cancel 🕐	

2.) In the Devices menu tree under "Discovered Devices", select and drag the CDi amplifier name into the Room View – the large open space that occupies the center of the screen.



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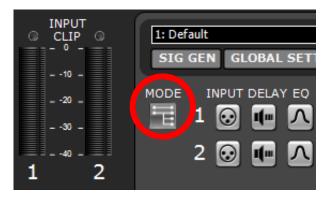
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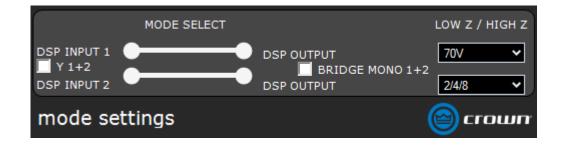
- 3.) Click the amplifier icon once to highlight, and click "Go Online" located at the top of the window.
- 4.) An "R" and "S" will appear on the amplifier icons. Click "R" for Receive (current settings).
- 5.) In the Room View, double click on the CDi amplifier icon to view the amplifier Control Panel.

NOTE: For 70V operation, you will need to configure those individual amplifier channels accordingly in the "Amplifier Mode Settings" window.

To create a 70V amplifier configuration, double click the "Mode" button in the amplifier control panel.



In the Amplifier Mode Settings window, select "70V" from the drop down menu for the amp channels you wish to operate in 70V. As an example, this picture below shows a CDi2|600 configured for 70V on Output #1, and Low Impedance for Channel #2.



Important: Please refer to the Wiring Instructions section of the Revel Extreme Climate Landscape Series Owner's Manual for proper wiring for 70V and Low Impedance operation.

WARNING: Always select the 70V option if choosing a lower voltage output. Do not connect Revel XC Series speakers to 100V amplifier outputs, as the speakers will likely be damaged.



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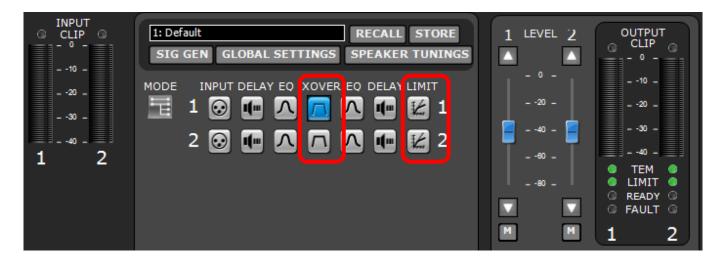
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The Revel XC Landscape series requires only two other settings depending on the model. These settings include output limiting and/or a crossover filter.

Double clicking on the applicable icon will open the tool's settings window for that channel. You can verify settings have been applied to that channel when the icon is highlighted in blue.

You will use the XOVER settings and LIMIT settings per channel. The highlighted icon in the figure below shows crossover settings have been applied to Channel #1.



The next page details the settings that should be applied for Revel XC Landscape series loudspeakers.



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L41XC - 70V				
	Туре	Filter Type	Freq	
XOVER	HP	BW 24dB/oct	120Hz	
		L41XC - Low Z		
VOVED	Туре	Filter Type	Freq	
XOVER	HP	BW 24dB/oct	120Hz	
			Thermal Voltage VRMS	
	Threshold (Vpk)	Threshold (VRMS)	Thermal Voltage VRMS	
LIMIT	Threshold (Vpk) 43	Threshold (VRMS) 12.5	Thermal Voltage VRMS 12.5	
LIMIT	· · ·		9	
LIMIT	· · ·		9	
	· · ·	12.5	9	
LIMIT	43	12.5 L42XC - 70V	12.5	
	43 Туре	12.5 L42XC - 70V Filter Type	12.5 Freq	
	43 Туре	12.5 L42XC - 70V Filter Type	12.5 Freq	

XOVER	Туре	Filter Type	Freq	
AUVER	HP	BW 24dB/oct	120Hz	
LIMIT	Threshold (Vpk)	Threshold (VRMS)	Thermal Voltage VRMS	
	52.5	15.5	15.5	

L12XC - 70V			
XOVER	Туре	Filter Type	Freq
	HP	L-R 24dB/oct	35Hz
XOVER	Туре	Filter Type	Freq
	LP	BW 24dB/oct	120Hz

L12XC - Low Z				
XOVER	Туре	Filter Type	Freq	
	HP	L-R 24dB/oct	35Hz	
XOVER	Туре	Filter Type	Freq	
	LP	BW 24dB/oct	120Hz	
LIMIT	Threshold (Vpk)	Threshold (VRMS)	Thermal Voltage VRMS	
	77.3	38.7	38.7	



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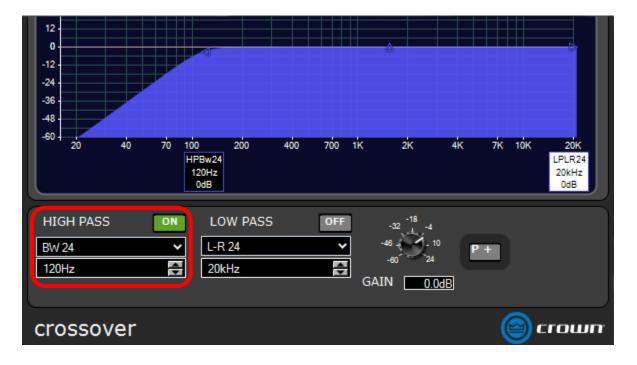
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The example below shows the settings for the L41XC in low impedance mode.



OUTPUT VOLTAGE LIMITING	TRANSDUCER THERMAL LIMITING	AMP OUTPUT	GAIN REDUCTION
PEAK RMS THRESHOLD (VPK) THRESHOLD (VRMS) 43.00 12.50 RELEASE (SEC) RELEASE (SEC)	THERMAL VOLTAGE (VRMS) 12.50	- ⁰ dBF9 - 10 - 20 - 30	5 0 dB 5 10 15 20
	10.0	40	
 AUTOMATIC ADVANCED 		G	TRANSDUCER THERMAL LIMITING
Level MAX [™] output li		🞯 crown	

6.) Once you have entered the settings needed for each channel, exit and save your file.