

REVEL XC LANDSCAPE TUNING WITH CROWN CDI DRIVECORE AMPLIFIERS

APRIL 13, 2018

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Overview

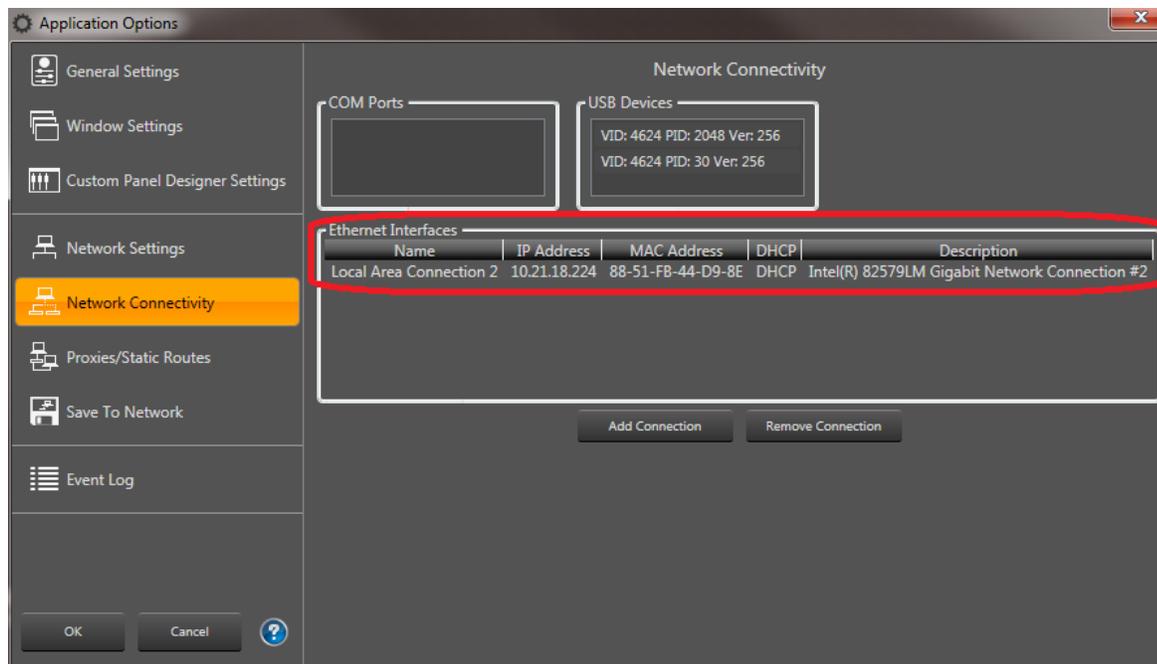
Crown CDi DriveCore power amplifiers can be configured for use with Revel Extreme Climate L41XC, L42XC, and L12XC Landscape series loudspeakers. The speaker tuning settings can be entered into the control panel of Crown CDi DriveCore power amplifier using Harman HiQnet™ Audio Architect Software, version 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.



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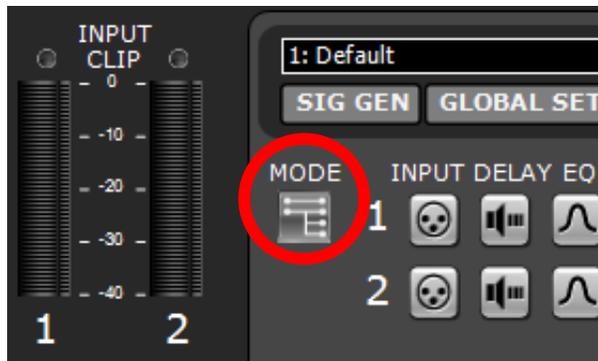
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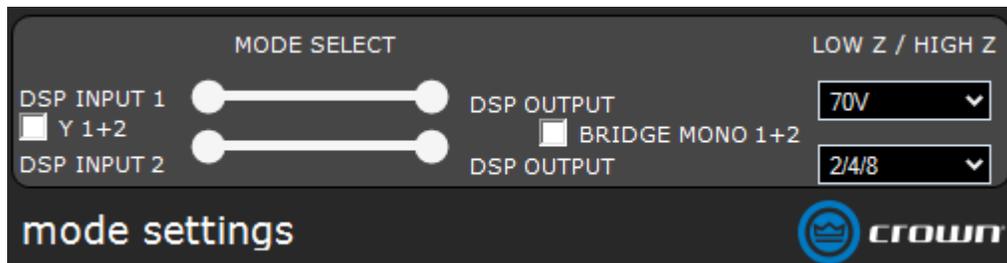
- 3.) Click the amplifier icon once to highlight, and click “Go Online” located at the top of the window.
- 4.) An “R” and “S” will appear on the amplifier icons. Click “R” for Receive (current settings).
- 5.) In the Room View, double click on the CDi amplifier icon to view the amplifier Control Panel.

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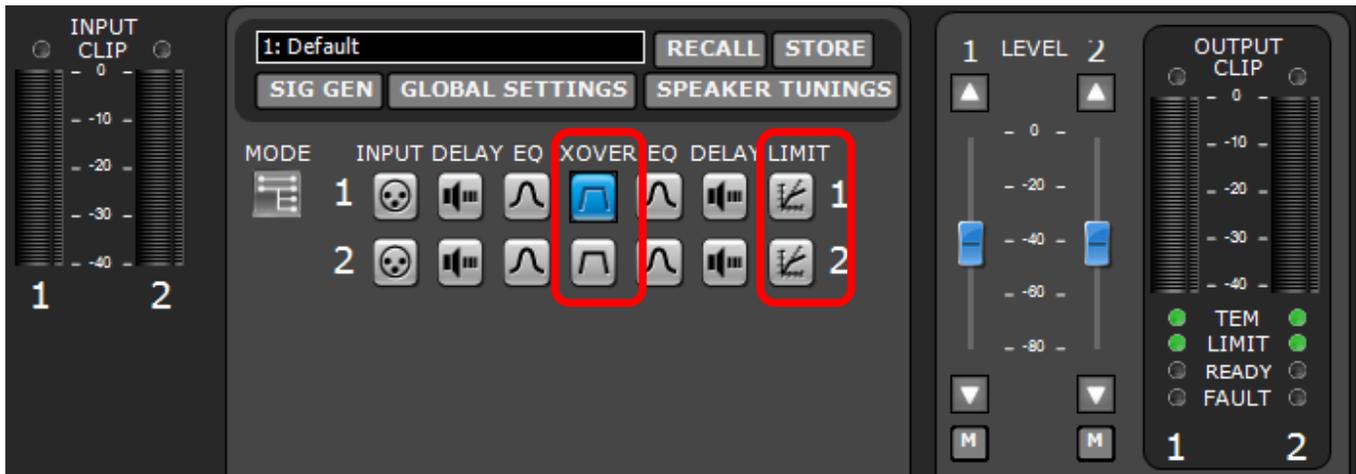
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The Revel XC Landscape series requires only two other settings depending on the model. These settings include output limiting and/or a crossover filter.

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			
XOVER	Type	Filter Type	Freq
		HP	BW 24dB/oct

L41XC - Low Z			
XOVER	Type	Filter Type	Freq
		HP	BW 24dB/oct
LIMIT	Threshold (Vpk)	Threshold (VRMS)	Thermal Voltage VRMS
	43	12.5	12.5

L42XC - 70V			
XOVER	Type	Filter Type	Freq
		HP	BW 24dB/oct

L42XC - Low Z			
XOVER	Type	Filter Type	Freq
		HP	BW 24dB/oct
LIMIT	Threshold (Vpk)	Threshold (VRMS)	Thermal Voltage VRMS
	52.5	15.5	15.5

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

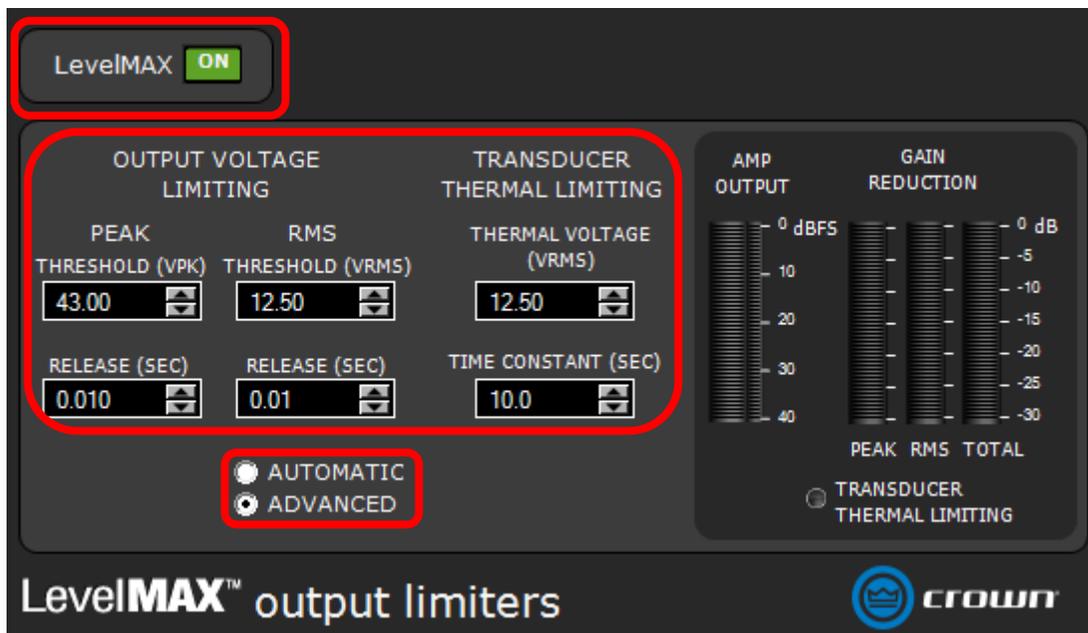
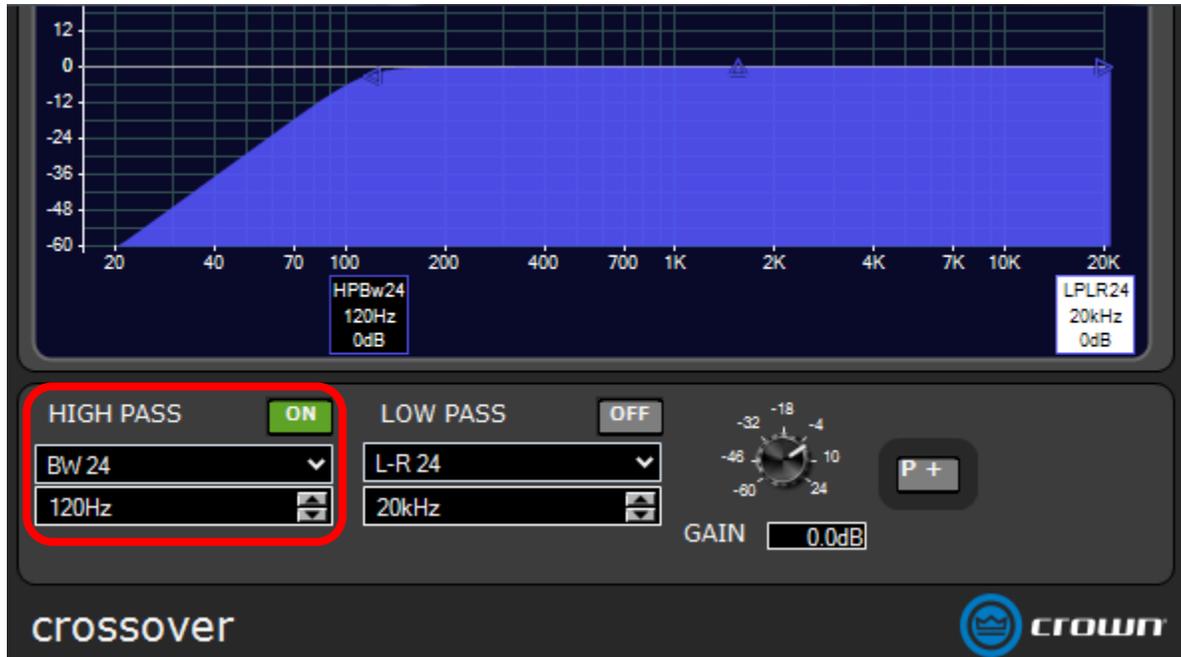
L12XC - Low Z			
XOVER	Type	Filter Type	Freq
		HP	L-R 24dB/oct
XOVER	Type	Filter Type	Freq
		LP	BW 24dB/oct
LIMIT	Threshold (Vpk)	Threshold (VRMS)	Thermal Voltage VRMS
	77.3	38.7	38.7

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



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